UNIVERSAL DOCUMENTATION SYSTEM

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE

PRD/PSP/OR/OD

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1000 - ADMINISTRATIVE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD:	221183	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	LLS	APPROVAL DATE:	01/31/94
		INITIAL DATE:	01/28/91
ITEM NUMBER:	K1	DATE LAST CHANGED:	06/05/06
SECTION:	1000	TIME LAST CHANGED:	07:34:42

REQUESTER: KSC
SUBREQUESTER: PH-B
TEST CODE: STSALL

1. DESCRIPTION: THE JOHN F.KENNEDY SPACE CENTER LAUNCH AND LANDING PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT DOCUMENT (PRD/PSP) CONSISTS OF TWO VOLUMES:

VOLUME I - SHUTTLE

THE KSC SPACE SHUTTLE LAUNCH AND LANDING PRD/PSP VOLUME I CONTAINS REQUIREMENTS WHICH IDENTIFY, DEFINE AND QUANTIFY EQUIPMENT FACILITIES, COMMODITIES AND SUPPORT REQUIRED DURING THE CHECKOUT, LAUNCH, LANDING AND TURNAROUND OF THE SPACE SHUTTLE. THE VOLUME ALSO CONTAINS THE COMMITMENT TO THE REQUIREMENTS.

REQUIREMENTS ASSOCIATED WITH THE LAUNCH, LANDING AND TURNAROUND OF THE SPACE SHUTTLE ARE DOCUMENTED IN ACCORDANCE WITH GP60-3 AUTOMATED SUPPORT REQUIREMENT SYSTEM (ASRS) HANDBOOK. REQUIREMENTS FOR THE FLIGHT SEGMENT PHASE ARE COVERED IN THE SHUTTLE OPERATIONS FLIGHT PRD/PSP VOLUME I.

VOLUME II - CARGO

THE VOLUME II PRD/PSP ADDRESSES GENERIC REQUIREMENTS AND COMMITMENTS ASSOCIATED WITH PAYLOADS TO BE LAUNCHED ON THE SPACE SHUTTLE IN ACCORDANCE WITH GP60-3 AUTOMATED SUPPORT REQUIREMENT SYSTEM (ASRS) HANDBOOK. PAYLOAD REQUIREMENTS FOR THE FLIGHT SEGMENT PHASE ARE COVERED IN THE FLIGHT PRD/PSP VOLUME II.

THE SRS DATA BASE CONTAINS THE PRD REQUIREMENTS AND PSP RESPONSES TO EACH REQUIREMENT. THE COMBINED PRD/PSP DOCUMENT AIDS USERS IN RESEARCHING THE REQUIREMENT AND ANY SUPPORT FOR THAT REQUIREMENT.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1000 - ADMINISTRATIVE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD:	10306	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	LLS	APPROVAL DATE:	01/31/94
		INITIAL DATE:	01/28/91
ITEM NUMBER:	K2	DATE LAST CHANGED:	07/03/02
SECTION:	1000	TIME LAST CHANGED:	08:04:21

REQUESTER: KSC
SUBREQUESTER: PH-B
TEST CODE: STSALL

1. DESCRIPTION: AUTOMATED SUPPORT REQUIREMENTS SYSTEM

THE AUTOMATED SUPPORT REQUIREMENTS SYSTEM (ASRS) IS AN INTER-CENTER/AGENCY ELECTRONIC DATA PROCESSING AND TRANSMISSION SYSTEM FOR THE COMMUNICATION OF SUPPORT REQUIREMENTS/SUPPORT COMMITMENTS BETWEEN NASA AND DOD CENTER/AGENCIES FOR THE SPACE SHUTTLE AND PAYLOAD ELEMENTS.

THE ELECTRONIC TRANSMISSION FEATURE OF THE SYSTEM PERMITS IMMEDIATE DISSEMINATION OF REQUIREMENTS AND SUPPORT INFORMATION TO ALL USERS. THE DATA BASE STORAGE FEATURE PROVIDES DISPLAY OF THIS INFORMATION IN USER FAMILIAR FORMATS.

THE ASRS PROVIDES ALL THE NECESSARY INFORMATION THAT MUST NORMALLY PASS BETWEEN THE USER AND ALL CONTRIBUTING AGENCIES IN ORDER TO SUPPORT A PROGRAM, MISSION OR TEST.

THE SYSTEM IS SUFFICIENTLY FLEXIBLE TO BE USED BY SUPPORT AGENCIES WITHOUT AFFECTING THE INTERNAL MANAGEMENT OF THE INDIVIDUAL AGENCIES.

DATA BASE - THE ASRS DATA BASE IS A SUBSYSTEM OF THE KSC IBM ES9000 COMPUTER LOCATED IN THE VAB. THE DATA BASE CONSISTS OF A SERIES OF LOGICALLY INDEPENDENT DATA BASES WHICH INCLUDE:

1. LAUNCH & LANDING DATA BASE - SHUTTLE (LLS)
2. LAUNCH & LANDING DATA BASE - PAYLOADS (LLC)
3. FLIGHT DATA BASE - SHUTTLE (FLS)
4. FLIGHT DATA BASE - PAYLOAD (FLP)

EACH SRS DATA BASE IS MANAGED BY THE APPROPRIATE SRS DATA BASE MANAGER WHO HAS RESPONSIBILITY FOR MANAGEMENT OF THE SRS DATA BASE. THE SRS DATA BASE MANAGER RECEIVES INPUTS FROM VALID,

CONTINUED

[PRD] DATABASE RECORD: 10306
ITEM NUMBER: K2

RECOGNIZED REQUIREMENTS CONTACTS (R/R MANAGERS) AT NASA AND DOD CENTERS/AGENCIES. THE INPUTS ARE COLLECTED IN A WORKING FILE BY THE R/R MANAGERS AND TRANSMITTED TO THE APPROPRIATE SRS DATA BASE MANAGER TO BE ENTERED IN THE DATA BASE FOR ACTION BY SUPPORT AGENCIES. SRS DATA BASE MANAGERS REVIEW AND DISSEMINATE REQUIREMENT RELATED DATA, AS APPROPRIATE, VIA THE ELECTRONIC MAILBOX.

EACH NASA CENTER AND DOD AGENCY IS REPRESENTED BY AN R/R MANAGER. THE R/R MANAGER IS RESPONSIBLE FOR THE VALIDATION AND APPROVAL OF ALL SUPPORT REQUIREMENTS REQUESTED OR COMMITTED BY HIS AGENCY. EACH R/R MANAGER IS RESPONSIBLE FOR REVIEWING ALL SUPPORT COMMITMENTS TO HIS REQUIREMENTS TO ENSURE THAT THE REQUESTED SUPPORT CAPABILITY WILL BE PROVIDED. THE R/R MANAGER IS ALSO RESPONSIBLE FOR ACKNOWLEDGING, INTERNAL STAFFING, AND PROVIDING THE SUPPORT RESPONSES FOR REQUIREMENTS LEVIED ON HIS AGENCY BY R/R MANAGERS FROM OTHER NASA AND DOD CENTERS/AGENCIES.

THE DATA BASE IS ACCESSED THROUGH A DATA BASE MANAGEMENT PROGRAM CALLED SPDMS II.

THE ASRS PROVIDES USERS WITH VARIOUS ONLINE CAPABILITIES TO MANIPULATE DATA IN THE DATABASE AND PROVIDE THE USER WITH VARIOUS MANAGEMENT REPORTS AND REQUIREMENTS/RESPONSE DOCUMENTS.

THE ASRS HAS REDUCED THE NEED FOR DISTRIBUTION OF HARDCOPIES OF REQUIREMENTS/RESPONSE DOCUMENTS. EVERY CENTER/ORGANIZATION MAY NOW RETRIEVE THE REQUIREMENTS OF INTEREST AND PRINT/DISTRIBUTE THEM AT EACH CENTER/ORGANIZATION. THOSE CENTERS/ORGANIZATIONS WITHOUT THIS CAPABILITY WILL BE PROVIDED COPIES OF THE DOCUMENT AS DIRECTED IN THE 1020 SERIES PAGES.

[PRD] DATABASE RECORD: 204736 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/31/94
INITIAL DATE: 10/09/89
ITEM NUMBER: K3 DATE LAST CHANGED: 07/18/03
SECTION: 1000 TIME LAST CHANGED: 08:26:09

REQUESTER: KSC
SUBREQUESTER: PH-B

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1000 - ADMINISTRATIVE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 204736
ITEM NUMBER: K3

TEST CODE: STSALL

1. DESCRIPTION: PRD/PSP/OR/OD PREPARATION INSTRUCTIONS

THE AUTOMATED SUPPORT REQUIREMENTS SYSTEM (ASRS) HANDBOOK (GP60-3) IS THE PRIME GUIDELINE FOR ADMINISTRATIVE PROCEDURES IN PREPARATION OF THIS DOCUMENT.

[PRD] DATABASE RECORD: 188334 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/31/94
INITIAL DATE: 10/09/89
ITEM NUMBER: K4 DATE LAST CHANGED: 07/18/03
SECTION: 1000 TIME LAST CHANGED: 08:26:27

REQUESTER: KSC
SUBREQUESTER: FF-R PH-B
TEST CODE: STSALL
TRACKING NO. L5415

1. DESCRIPTION: ADMINISTRATIVE

ANY SUPPORT REQUIREMENT DOCUMENTED HEREIN REQUIRES A COMMITMENT FROM THE SPECIFIED SUPPORTING AGENCY(S). REQUESTING AND SUPPORTING AGENCIES ARE IDENTIFIED BY ITEM NUMBER CODING FOUND ON LINE 8 OF EACH ITEM, AND ARE DEFINED IN THE ADMINISTRATIVE SECTION 1063 OF THIS DOCUMENT. AGENCY RESPONSES SHOULD FOLLOW GUIDELINES PRESCRIBED IN GP60-3.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1010A - APPROVAL AUTHORITY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD:	331317	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	LLS	APPROVAL DATE:	02/19/97
		INITIAL DATE:	05/12/89
ITEM NUMBER:	K1	DATE LAST CHANGED:	07/18/03
SECTION:	1010A	TIME LAST CHANGED:	08:36:48

REQUESTER: KSC
SUBREQUESTER: PH-B
TEST CODE: STSALL
TRACKING NO. L5216 R2670 R2806 R8303

1. PRECEDENCE RATING: NOT USED
   NMI 8610.10B
2. PRIORITY:
3. INITIATION DATE:
4. COMPLETION DATE:
5. SPONSORING AGENCY:
6. BASIC CONTRACT NUMBER:
7. AUTHORITY (REFERENCES): NMI 8610.10B
8. NOTES: THIS IS THE OFFICIAL DOCUMENT FOR IDENTIFYING PROGRAM/OPERATIONS SUPPORT REQUIREMENTS (PRD/OR) AND SUPPORT COMMITMENTS (PSP/OD) FOR THE LAUNCH AND

   LANDING SEGMENT OF THE SPACE SHUTTLE PROGRAM. THE LAUNCH AND LANDING PRD/PSP VOLUME I - SHUTTLE HAS BEEN PREPARED BY THE JOHN F. KENNEDY SPACE CENTER IN ACCORDANCE WITH NMI 8610.10B ENTITLED "MANAGEMENT OF OPERATIONAL SUPPORT REQUIREMENTS FOR MANNED FLIGHT MISSIONS".

   REQUIREMENTS/COMMITMENTS FOR THE FLIGHT SEGMENT OF THE SPACE SHUTTLE PROGRAM ARE DOCUMENTED IN THE FLIGHT PRD/PSP PREPARED BY THE JOHNSON SPACE CENTER

   REQUIREMENTS/RESPONSES IN THIS DOCUMENT ARE UNCLASSIFIED.

   NOTE: FOR OR/OD LEVEL APPROVAL AUTHORITY PAGE, SEE DBR 179456.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1010A - APPROVAL AUTHORITY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 331317
ITEM NUMBER: K1

9. APPROVAL
AND DATE:

DERWOOD MCKINLEY
DATA BASE MANAGER, L&L PRD/PSP

VOL I SHUTTLE
MISSION SUPPORT REQUIREMENTS
OFFICE
PH-L2
KENNEDY SPACE CENTER

10. APPROVAL
AND DATE:
11. APPROVAL
AND DATE:
12. APPROVAL
AND DATE:
13. APPROVAL
AND DATE:
14. APPROVAL
AND DATE:
15. APPROVAL
AND DATE:
16. APPROVAL
AND DATE:
17. APPROVAL
AND DATE:
18. APPROVAL
AND DATE:

[PRD] DATABASE RECORD: 179456 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/18/97
INITIAL DATE: 05/15/89
ITEM NUMBER: K2 DATE LAST CHANGED: 06/05/06
SECTION: 1010A TIME LAST CHANGED: 07:37:25

REQUESTER: KSC
SUBREQUESTER: PH-B

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1010A - APPROVAL AUTHORITY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 179456
ITEM NUMBER: K2

TEST CODE: STSALL

ASSOCIATED DOC:

20003S	20004S	20007S	20008S
20009S	20014S	20017S	20019S
20024S	20026S	20027S	20028S
20037S	25001S	25009S	25022S
25041S	25111V	25214A	25303B
25306B	25407B	MODE8	

1. PRECEDENCE RATING: Not Used
2. PRIORITY:
3. INITIATION DATE:
4. COMPLETION DATE:
5. SPONSORING AGENCY:
6. BASIC CONTRACT NUMBER:
7. AUTHORITY (REFERENCES):
8. NOTES: THIS IS THE OFFICIAL DOCUMENT FOR IDENTIFYING OPERATIONS REQUIREMENTS (OR) AND SUPPORT COMMITMENTS (OD) TO SUPPORT THIS TEST.

   THIS DOCUMENT CONTAINS THE SUPPORT REQUIREMENTS WHICH ARE TO BE SUPPORTED BY KSC OR EXTERNAL SUPPOR T ELEMENTS. REQUIREMENTS AND COMMITMENTS IN THIS DOCUMENT WILL BE IPDATED IN THE ASRS DATA BASE AS APPLICABLE CHANGES ARE IDENTIFIED. USERS MAY OBTAIN UPDATES VIA TERMINAL FROM THE DATA BASE.

   ALL REQUIREMENTS IN THIS DOCUMENT ARE UNCLASSIFIED.

9. APPROVAL AND DATE:
10. APPROVAL

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1010A - APPROVAL AUTHORITY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 179456
ITEM NUMBER: K2

AND DATE:

D. MCKINLEY
MISSION SUPPORT
REQUIREMENTS OFFICE
PZ-H-C
KENNEDY SPACE CENTER

11. APPROVAL
AND DATE:
12. APPROVAL
AND DATE:
13. APPROVAL
AND DATE:
14. APPROVAL
AND DATE:
15. APPROVAL
AND DATE:
16. APPROVAL
AND DATE:
17. APPROVAL
AND DATE:
18. APPROVAL
AND DATE:

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1031 - INDEX

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

SECTION	TITLE
1000	ADMINISTRATIVE
1010A	APPROVAL AUTHORITY
1031	INDEX
1050	ABBREVIATIONS/ACRONYMS
1051	TEST CODE DEFINITION
1052	SPECIAL CODE DEFINITION
1060	KEY TECHNICAL PERSONNEL
1070	TECHNICAL REFERENCES
1100	PROGRAM DESCRIPTION
1130	TEST DESCRIPTION
1405	TEST VEHICLE INSTRUMENTATION FREQUENCY SUMMARY
1420	TEST VEHICLE TELEMETRY SYSTEM DESCRIPTION
1470	TEST VEHICLE RECOVERY AIDS DESCRIPTION
1480	OTHER TEST VEHICLE SYSTEMS
1600	SYSTEM READINESS TESTS
2000	TEST REQUIREMENTS/SUPPORT PLANS
2100	METRIC DATA
2120	METRIC DATA - OTHER
2200	TELEMETRY DATA
2300	COMMAND SYSTEMS
2330	COMMAND UPLINK
2400	TIMING
2412	TIMING SEQUENCER REQUIREMENTS
2413	VISUAL COUNTDOWN
2600	OTHER SYSTEMS
2620	OTHER SYSTEMS - SUPPORT INSTRUMENTATION
2630	OTHER SYSTEMS - ENVIRONMENTAL
2640	OTHER SYSTEMS - DATA
2700	COMMUNICATION
2710	AIR/GROUND VOICE COMMUNICATIONS
2730	VOICE NETWORK TRANSMISSION
2732	TELETYPE NETWORK TRANSMISSION
2734	VIDEO/DATA NETWORK TRANSMISSION
2750	VOICE TERMINATIONS
2752	POINT-TO-POINT TERMINATIONS
2753	TELETYPE TERMINATIONS
2755	VIDEO/DATA TERMINATIONS
2756	VOICE RADIO TERMINATIONS
2757	MISCELLANEOUS TERMINATIONS
2760	COMMUNICATIONS RECORDINGS

CONTINUED

[PRD] DATABASE RECORD:
ITEM NUMBER: N/A

2770	TELEPHONE
2780	OTHER COMMUNICATIONS
2800	VIDEO
3010	REAL TIME FLIGHT CONTROL/SUPPORT CENTERS
3020	REAL TIME DISPLAYS
3040	REAL TIME DATA FORMATS
3100	PHOTOGRAPHY
3110	DOCUMENTARY PHOTOGRAPHY
3120	ENGINEERING SEQUENTIAL PHOTOGRAPHY
3200	METEOROLOGY
3210	METEOROLOGICAL CONSTRAINTS
3220	METEOROLOGICAL FORECASTS
3230	METEOROLOGICAL OBSERVATIONS
3300	RECOVERY
3360	RECOVERY - ABORT AREAS
3400	OTHER TECHNICAL SUPPORT
3410	OTHER TECHNICAL SUPPORT - AIRCRAFT
3411	OTHER TECHNICAL SUPPORT - SEACRAFT
3421	PROTECTIONS FROM EMITTING SYSTEMS
3440	OTHER TECHNICAL SUPPORT - TRAINING
4100	DATA PROCESSING SPECIFICATIONS
4200	DATA DISPOSITION
4232	DATA DISPOSITION - DETAIL - VOICE/TV RECORDING
4233	DATA DISPOSITION - DETAIL - PHOTOGRAPHIC
4234	DATA DISPOSITION - DETAIL - METEOROLOGICAL
4236	DATA DISPOSITION - DETAIL - MISCELLANEOUS
4240	DATA DISPOSITION - ENVIRONMENTAL
5100A	PERSONNEL ASSIGNMENT SCHEDULES
5100C	PERSONNEL ASSIGNMENT SCHEDULES
5200	TRANSPORTATION
5300	SERVICES
5310	SERVICES - ADMINISTRATIVE, PERSONNEL, AND OFFICE
5311	SERVICES - FIRE AND RESCUE
5312A	SERVICES - MEDICAL
5312B	SERVICES - MEDICAL
5313	SERVICES - PUBLIC AFFAIRS
5314	SERVICES - SECURITY AND SAFETY
5315	SERVICES - COMMUNITY, EDUCATION, AND FOOD SERVICE
5320	SERVICES - UTILITIES (ELECTRIC, WATER, AND SANITATION)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1031 - INDEX

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD:
ITEM NUMBER: N/A

5321	SERVICES - HANDLING, STORAGE, AND DISPOSAL
5322	SERVICES - AIR CONDITIONING AND ENVIRONMENTAL OBSERVATIONS
5330	SERVICES - PROCUREMENT, SHIPPING, RECEIVING, AND STOCK CONTROL
5340	SERVICES - PROPELLANTS, GASES, AND CHEMICALS
5342	SERVICES - CHEMICAL CLEANING
5350	SERVICES - VEHICLES
5351	SERVICES - GROUND HANDLING EQUIPMENT
5360	SERVICES - AIRCRAFT
5370	SERVICES - AIR OPERATIONS
5371	SERVICES - MARINE OPERATIONS
5410	LABORATORY - CHEMICAL AND PHYSICAL ANALYSIS
5430	LABORATORY - CALIBRATION
5440	LABORATORY - TECHNICAL SHOPS AND LABS
5500	MAINTENANCE
5600	FACILITIES
6000	OTHER SUPPORT

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1050 - ABBREVIATIONS/ACRONYMS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 204397 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/20/04
INITIAL DATE: 10/25/91
ITEM NUMBER: K1 DATE LAST CHANGED: 10/26/06
SECTION: 1050 TIME LAST CHANGED: 13:08:16

REQUESTER: KSC
SUBREQUESTER: PH-B USK-068
TEST CODE: STSALL
TRACKING NO. A106-1 A6201 R0402-1 R2656 R2849
R8902 R9302

1. DESCRIPTION: ACRONYMS AND ABBREVIATIONS
(REF: PUB 1059 & GP-1052 GLOSSARY)

	ACRONYM OR ABBREVIATION	DEFINITION OR MEANING
A:	A/A	AIR-TO-AIR
	A/C	AIRCRAFT; AIR CONDITIONING
	A/F	AIRFIELD
	A/G	AIR-TO-GROUND
	AADS	ASCENT AIR DATA SYSTEM
	AAE	ABORT ADVISORY EQUIPMENT
	AAS	ABORT ADVISORY SYSTEM
	AB	AIR BASE OR AIRBORNE
	ACD	ACCESS CONTROL DOCUMENT
	ACP	AUTOMATED CONE PENETROMETER
	ACS	ATTITUDE CONTROL SYSTEM
	ACOTS	ADVANCED TRANSPORTABLE OPTICAL TRACKING SYSTEM
	ADFRC	AMES-DRYDEN FLIGHT RESEARCH CENTER
	AELS	AUGMENTED EMERGENCY LANDING SITE
	AFB	AIR FORCE BASE
	AFD	AFT FLIGHT DECK
	AFFTC	AIR FORCE FLIGHT TEST CENTER (EAFB)
	A/FSC	AIR FIELD SUPPORT COORDINATOR
	AFSCN	AIR FORCE SATELLITE CONTROL NETWORK (REFERENCE 5 SOPS)
	AFTOX	AIR FORCE TOXIC DISPERSION MODEL (EAFB)
	AGC	AUTOMATIC GAIN CONTROL
	AGO	SANTIAGO, CHILI, STDN STATION
	ALS	AUGMENTED LANDING SITE
	ALT	APPROACH & LANDING TEST
	AM	AMPLITUDE MODULATION
	AM2	AIRCRAFT MATTING TYPE 2

CONTINUED

[PRD] DATABASE RECORD: 204397
ITEM NUMBER: K1

	ANT	ANTIGUA (ER)
	AOA	ABORT-ONCE-AROUND
	AOS	ACQUISITION-OF-SIGNAL
	AOTC	ASSISTANT ORBITER TEST DIRECTOR
	AOV	ACQUISITION-OF-VEHICLE
	APIP	AUTHORIZED PERSONNEL IDENTIFICATION PROGRAM
	APS	ATTITUDE PROPULSION SUBSYSTEM
	APU	AUXILIARY POWER UNIT
	A/R	AS REQUIRED
	ARC	AMES RESEARCH CENTER (CA)
	ARS	ATMOSPHERIC REVITALIZATION SYSTEM
	ARTCC	AIR ROUTE TRAFFIC CONTROL CENTER
	ASC	ASCENSION ISLAND, ER; AIRFIELD SUPPORT COORDINATOR (MSTF) AT WHITE SANDS SPACE HARBOR
	ASCC	AIRFIELD SUPPORT COORDINATION CENTER
	ASCII	AMERICAN STANDARD CODE FOR INFO INTERCHANGE
	ASCS	ATMOSPHERIC STORAGE AND CONTROL SYSTEM
	ASE	AIRBORNE SUPPORT EQUIPMENT
	ASL	ATMOSPHERIC SCIENCE LABORATORY
	ASRS	AUTOMATED SUPPORT REQUIREMENTS SYSTEM
	ASTRO COMM	ASTRONAUT COMMUNICATIONS
	ATC	AIR TRAFFIC CONTROL
	ATE	AUTOMATIC TEST EQUIPMENT
	ATO	ABORT-TO-ORBIT
	ATR	AERODYNAMIC TEST RANGE FACILITY (DFRC)
	ATWT	AS THE WORLD TURNS
	AWS	AIR WEATHER SERVICE
	AZ	AZIMUTH
B:	BAK-9	TYPE OF RUNWAY BARRIER (AF)
	BAK-12	TYPE OF RUNWAY BARRIER (AF)
	b/s	BITS PER SECOND
	B/U	BACK-UP
	B/W	BLACK AND WHITE
	BAIR	BREATHING AIR
	BCD	BINARY CODED DECIMAL
	BDA	BERMUDA, STDN STATION
	BDF	BLOCKED DATA FORMAT
	BENGUE	BEN GUERIR, MOROCCO

CONTINUED

[PRD] DATABASE RECORD: 204397
ITEM NUMBER: K1

	BER	BIT ERROR RATE
	BET	BEST ESTIMATE OF TRAJECTORY
	BKN	BROKEN CLOUDS
	BOB TAIL	TOW VEHICLE USED BY THE AIR FORCE
	BMDO/ISTEF	BALLISTIC MISSILE DEFENSE OPERATIONS/INOVATIVE SCIENTIFIC & TECHNOLOGY FACILITY (DOD)
	B-NS/HB	NASA SYSTEMS - HUNTINGTON BEACH, (CA)
	B-NS/HOU	NASA SYSTEMS - HOUSTON, TX
	BIMS	BOEING INTEGRATED MANAGEMENT SYSTEMS
	BRRS	BANANA RIVER REPEATER STATION (FL)
	BTC	BOOSTER (SRB) TEST CONDUCTOR
	BTCF	BUCKHORN TECHNICAL COMMUNICATIONS FACILITY (CA)
C:	C&T	COMMUNICATIONS AND TRACKING STATION (OPF/KSC)
	C/D	COUNTDOWN; CALENDAR DAY
	C/E	CARGO ELEMENT
	C/O	CHECKOUT
	CA	CALIFORNIA
	CAL	CALIBRATION
	CAP	COMMAND ACCEPTANCE PATTERN
	CAPCOM	CAPSULE COMMUNICATOR
	CAPS	CREW ACTIVITY PLANNING SYSTEM (JSC)
	CAP MPSR	CREW ACTIVITY PLANNING SYSTEM MULTIPURPOSE SUPPORT PLAN (JSC)
	CAPT	CAPTAIN
	CASTS	COUNTDOWN & STATUS TRANSMISSION SYSTEM
	CCAS	CAPE CANAVERAL AIR FORCE STATION (ER)
	CCC	CENTRAL COMPUTER COMPLEX (ER)
	CCFF	CAPE CANAVERAL FORECAST FACILITY (SEE RWO)
	CCMS	CHECKOUT CONTROL & MONITOR SUBSYSTEM (LPS)
	CCP	COMMUNICATIONS PROCESSOR
	CCS	COMPLEX CONTROL SET
	CCT	COMPUTER COMPATIBLE TAPE
	CCTV	CLOSED CIRCUIT TELEVISION
	CD	CALENDAR DAY
	CDDT	COUNTDOWN DEMONSTRATION TEST
	CDBFR	COMMON DATA BUFFER
	CDPA	CLASSIFIED DATA PREPARATION CENTER (JSC)
	CDR	COMMANDER

CONTINUED

[PRD] DATABASE RECORD: 204397
ITEM NUMBER: K1

CDS	CENTRAL DATA SUBSYSTEM (LPS)
CDSC	COMMUNICATION DISTRIBUTING & SWITCHING CENTER
CH	CHANNEL
CG	CENTER OF GRAVITY
CIM	COMPUTER INPUT MULTIPLEXER
Cir.N.	CIRCULAR N. (WEATHER MEASUREMENTS PROCEDURES)
CKT	CIRCUIT
CL	CLOSED LOOP
CLS	COMM. LINE SWITCH; CONTINGENCY LANDING SITE
CM-B	CONTACT MASTER - B WIND (PHOTOGRAPHY)
CMD	COMMAND
CMDH	COMMAND HISTORY
CME/V	COMMAND MESSAGE ENCODER/VERIFIER
CMT	CUSTOMER MANAGEMENT TEAM
CNVC	CAPE CANAVERAL C-BAND (1.16 RADAR)
CO	CARGO OPERATIONS
COD	CONTINGENCY OPERATIONS DIRECTOR
COL	COLOR
COMEDS	CONTINENTAL U.S. METRROLOGICAL DATA SYSTEM
COMM	COMMUNICATIONS
COMP	COMPUTER
CONF	CONFERENCE
CONS	CONSOLE; CONSOLET STATION (VIB)
CONT	CONTROL OR CONTROLLER
COORD	COORDINATOR; COORDINATION
CO-Q	CO QUALITY
COS	CHECKOUT STATION
CR	CONTROL ROOM
CRSS	COMMAND RANGE SAFETY SYSTEM
CRT	CATHODE RAY TUBE
CS	SHUTTLE CARGO OPERATIONS (KSC DIRECTORATE)
CSC	CONTINGENCY SUPPORT CENTER
CS-E	COMMON SUPPORT EQUIPMENT
CSTC	CONSOLIDATED SPACE TEST CENTER (PART OF AFSCN) (OBSOLETE: SEE 5 SOPS)
CT	CRAWLER TRANSPORTER
CTS	COLORADO TRACKING STATION (RTS)
CTV	COMPATIBILITY TEST VAN; CREW TRANSPORT VEHICLE
CW	CONTINUOUS WAVE

CONTINUED

[PRD] DATABASE RECORD: 204397
ITEM NUMBER: K1

	CX	COMPLEX; CANCEL
	CY	CALENDAR YEAR; CYCLE
D:	DAC	DIGITAL-TO-ANALOG CONVERTER
	DBR	DATA BASE REFERENCE NUMBER (ASRS)
	dB	DECIBELS
	DBUV/M	DECIBELS ABOVE MICRO VOLT PER METER
	DCC	DISTRIBUTION CONTROL CENTER (DFRC)
	DCDR	DECODER
	DCS	DECOMPRESSION SICKNESS
	DCU	DIGITAL COMPUTER UNIT
	DD FF/GG	WIND PARAMETERS: DIRECTION/VELOCITY/GUSTS
	DDMS	DOD MANNED SPACE FLIGHT SUPPORT OFFICE
	DDR	DATA DISPLAY ROOM (RI-DNY)
	DDT&E	DESIGN, DEVELOPMENT, TEST & EVALUATION
	DENS	DENSITY
	DFCB	DATA FORMAT CONTROL BOOK
	DFI	DEVELOPMENT FLIGHT INSTRUMENTATION
	DFRC	DRYDEN FLIGHT RESEARCH CENTER (CA)
	DGS	DIEGO GARCIA (RTS)
	D/L	DOWN LINK
	DLSM	DATA LINK SUMMARY MESSAGE
	DMCF	DESERVICING, MAINTENANCE & CHECKOUT FACILITY; DEFINITIVE MEDICAL CARE FACILITY
	DME	DISTANCE MEASURING EQUIPMENT
	DMS	DATA MANAGEMENT SUMMARY
	DN	DUPE NEGATIVE (PHOTOGRAPHY)
	DNA	DUPE NEGATIVE "A" WIND (PHOTOGRAPHY)
	DNB	DUPE NEGATIVE "B" WIND (PHOTOGRAPHY)
	DOAMS	DISTANCE OBJECT ATTITUDE MEASUREMENT SYSTEM
	DOD	DEPARTMENT OF DEFENSE
	DODALS	DOD AUGUMENTED LANDING SITE
	DODAEL	DOD AUGUMENTED EMERGENCY LANDING SITE
	DODELS	DOD EMERGENCY LANDING SITE
	DOLILU	DAY OF LAUNCH INITIALIZATION (I-LOAD) UPDATE
	DOT	DEPLOYED OPERATIONS TEAM
	DQM	DATA QUALITY MESSAGE MONITOR; DATA QUALITY MONITOR
	DRCC	DATA RATE CHANGE COMPENSATER
	DRDS	DATA RECORDING AND DISPLAY SYSTEM (DFRC)

CONTINUED

[PRD] DATABASE RECORD: 204397
ITEM NUMBER: K1

	DRSCS	DIGITAL RANGE SAFETY COMMAND SYSTEM
	DSA	DESERVICE AREA
	DSMC	DATA SERVICES MANAGEMENT CENTER (WSC)
	DSN	DEFENSE SWITCHED NETWORK
	DSTF	DELTA SPIN TEST FACILITY (FL)
	DTO	DETAILED TEST OBJECTIVE
	DTV	DIGITAL TELEVISION
	DVS	DIGITAL VOICE STRIPPER
E:	E	EVENT; EARTH; EAST; ELECTRON; ENGLISH
	EACE	ESR ASSESSMENT COST ESTIMATE
	EAFB	EDWARDS AIR FORCE BASE (CA)
	EBW	EXPLOSIVE BRIDGE WIRE
	ECG	ELECTROCARDIOGRAM
	ECLSS	ENVIRONMENTAL CONTROL & LIFE SUPPORT SUBSYSTEM
	ECP	ENTRY CONTROL POINT
	ECS	ENVIRONMENTAL CONTROL SYSTEM (SUBSYSTEM)
	EDW	EDWARDS AIR FORCE BASE (EAFB)
	EEC	ENVIROMENTAL EVALUATION CENTER
	EEL	EMERGENCY EXPOSURE LIMIT
	EES	EJECTION ESCAPEE SUIT
	EIU	ENGINE INTERFACE UNIT
	EL	ELEVATION
	ELS	EMERGENCY LANDING SITE
	EMC	ELECTROMAGNETIC COMPATABILITY
	EMS	EMERGENCY MEDICAL SERVICES
	EMSS	EMERGENCY MEDICAL SERVICES SYSTEM
	ENGR	ENGINEER
	EOD	EXPLOSIVE ORDNANCE DISPOSAL; END OF DATA/DAY
	EOM	END OF MESSAGE; END OF MISSION
	EOT	END OF TAPE
	EP	ENGINEERING PRINT (PHOTOGRAPHY)
	ER	EASTERN RANGE (FORMERLY ETR)
	ES	EARTH STATION
	ESA	EXPLOSIVE SAFE AREA; ENGINEERING SUPPORT AREA
	ESMC	EASTERN SPACE & MISSILE CENTER (OBSOLETE: SEE 45 SW)
	ESMS	ENVIRONMENTAL AND SPECIAL MEASUREMENTS SYSTEM
	ESP	ENGINE SERVICE PLATFORM
	ESR	ENGINEERING SUPPORT REQUEST

CONTINUED

[PRD] DATABASE RECORD: 204397
ITEM NUMBER: K1

	ESS	ELECTRONIC SURVEILLANCE SYSTEM; EXPERIMENT SUBSYSTEM SIMULATOR
	ET	EXTERNAL TANK
	ETR	EASTERN TEST RANGE (EASTERN SPACE & MISSILE CENTER) (OBSOLETE SEE ER)
	EU	ENGINEERING UNIT
	EVA	EXTRAVEHICULAR ACTIVITY
	EVCF	ER VEHICLE CHECK-OUT FACILITY
F:	F/T	FIXED OR TRACKING
	FAA	FEDERAL AVIATION ADMINISTRATION
	FCA	FREQUENCY CONTROL ANALYSIS
	FCDS	FLIGHT CONTROL DISPLAY SYSTEM
	FCO	FLIGHT CONTROL OFFICER
	FCOD	FLIGHT CONTROL OPERATIONS DIVISION (JSC)
	FCR	FLIGHT CONTROL ROOM (JSC)
	FCS	FLIGHT CONTROL SYSTEM
	FCT	FLIGHT CONTROL TEAM; FLIGHT CREW TRAINER
	FD	FLIGHT DIRECTOR
	FDCF	FLIGHT DESIGN COMPUTATIONAL FACILITY
	FDD	FLIGHT DYNAMICS DIVISION
	FDDD	FLIGHT DESIGN DYNAMICS DIVISION
	FDDI	FIBER DISTRIBUTION DATA INTERFACE
	FDF	FLIGHT DYNAMICS FACILITY
	FDM	FREQUENCY DIVISION MULTIPLEX
	FDME	FIRING DATA MULTIPLEX EXCITER
	FDX	FULL DUPLEX
	FEP	FRONT END PROCESSOR (LPS)
	FIDO	FLIGHT DYNAMICS OFFICER
	FLT	FLIGHT
	FM	FREQUENCY MODULATION
	FOD	FLIGHT OPERATIONS DIRECTOR (OR DIRECTORATE)
	FOMR	FLIGHT OPERATIONS MANAGEMENT ROOM
	FOV	FIELD OF VIEW
	FO&S	FACILITY OPERATIONS AND SUPPORT (LOCKHEED FACILITIES)
	FOXX	HEADER ON A.F. WEATHER BULLETIN
	FP	FILM PRODUCTION
	FRCS	FORWARD REACTION CONTROL SUBSYSTEM
	FREQ	FREQUENCY

CONTINUED

[PRD] DATABASE RECORD: 204397
ITEM NUMBER: K1

	FRF	FLIGHT READINESS FIRING
	FRT	FLIGHT READINESS TEST
	FSS	FIXED SERVICE STRUCTURE
	FTH	FT. HUACHUCA (U.S. ARMY)
	FTS	FEDERAL TELECOMMUNICATIONS SYSTEM
	FVF	FIRST VERTICAL FLIGHT
	FY	FISCAL YEAR
G:	G/A	GROUND-TO-AIR; GENERAL ASSEMBLY
	GC	GROUND CONTROLLER
	GCN-1	AIR-TO-GROUND-1 MONITOR ONLY
	GCN-2	AIR-TO-GROUND-2 MONIT0R ONLY
	GEI	GROUND ENVIROMENTAL INSTRUMENTATION
	GFE	GOVERNMENT FURNISHED EQUIPMENT
	GH2	GASEOUS HYDROGEN
	GHE	GASEOUS HELIUM
	GMT	GREENWICH MEAN TIME
	GN	GROUND NETWORK (GSFC)
	GN2	GASEOUS NITROGEN
	GND	GROUND
	GO2	GASEOUS OXYGEN (GOX)
	GOM	GROUND OPERATIONS MANAGER
	GPC	GENERAL PURPOSE COMPUTER
	GSE	GROUND SUPPORT EQUIPMENT
	GSFC	GODDARD SPACE FLIGHT CENTER (GREENBELT, MD)
	GTS	GUAM TRACKING STATION (RTS)
	GUCP	GROUND UMBILICAL CARRIER PLATE
	GWC	GLOBAL WEATHER CENTRAL
H:	H/C	HARD COPY
	H/L	HARD LINE
	HAFB	HOLLOMAN AIR FORCE BASE (NM)
	HBR	HIGH BIT RATE
	HCl	HYDROGEN CHLORIDE
	HDR	HIGH DATA RATE
	HF	HIGH FREQUENCY
	HG	INCHES IN MERCURY
	HGDS	HYDRAULICS
	HMF	HYPERGOLIC MAINTENANCE FACILITY (KSC)

CONTINUED

[PRD] DATABASE RECORD: 204397
ITEM NUMBER: K1

	HOSC	HUNTSVILLE OPERATIONS SUPPORT CENTER
	HQS	HEADQUARTERS
	HRS	HOURS
	HRT	HIGH RESOLUTION TRACKER
	HSD	HIGH SPEED DATA
	HSP	HEALTH STABILIZATION PROGRAM
	HSR	HIGH SAMPLE RATE; HIGH SPEED RATE
	HST	HUBBLE SPACE TELESCOPE
	HTS	HAWAII TRACKING STATION (RTS)
	HUD	HEADS UP DISPLAY
	HYGL	HYPERGOLICS
I:	I/F	INTERFACE
	IFR	INSTRUMENT FLIGHT-RATED
	I/O	INPUT/OUTPUT
	I/C	INTERCOM
	ICD	INTERFACE CONTROL DOCUMENT
	ICV	INTER-CENTER VECTOR
	ID	IDENTIFICATION
	IECM	INDUCED ENVIRONMENT CONTAMINATION MONITOR
	IGN	IGNITION
	IGOR	INTERCEPT GROUND OPTICAL RECORDER
	IIP	INSTANTANEOUS IMPACT PREDICTION
	IIRV	IMPROVED IRV
	IMCF	INTERMEDIATE MEDICAL CARE FACILITY
	IMU	INERTIAL MEASUREMENT UNIT
	INP	INTERNET PREDICTION
	IOS	INDIAN OCEAN STATION (RTS)
	IP	IMPACT PREDICTOR
	IPA	INTERPOSITIVE PRINT, "A" WIND (PHOTOGRAPHY); ISOPROPYL ALCOHOL
	IPS	INCHES PER SECOND
	IR	INFRARED
	IRIG	INTER-RANGE INSTRUMENTATION GROUP
	IRV	INTER-RANGE VECTOR
	ISF	INTEGRATED SUPPORT FACILITY (DFRC)
	ISRO	INSTRUMENTATION, SUPT OF RANGE OPERATIONS
	IUS	INERTIAL UPPER STAGE

CONTINUED

[PRD] DATABASE RECORD: 204397
ITEM NUMBER: K1

J:	JBOSC	JOINT BASE OPERATIONS SUPPORT CONTRACTOR
	JDMTA	JOHNATHAN DICKINSON MISSILE TRACKING ANNEX (WAS JDIF)
	JIS	JOINT INTEGRATED SIMULATIONS
	JSC	JOHNSON SPACE CENTER (HOUSTON, TX)
K:	K	KILO, 1000
	kb/s-kbps	KILOBITS PER SECOND (THOUSAND BITS PER SECOND)
	KHz	KILOHERTZ
	KIDS	KSC INTEGRATED DATA SYSTEM
	Km	KILOMETER
	KMR	KWAJALEIN MISSILE RANGE, U.S. ARMY
	KMRTS	KENNEDY MARSHALL REDUNDANT TRANSMISSION SYSTEM
	KPT	KAENA POINT, HAWAII, WR
	KSC	KENNEDY SPACE CENTER (FL)
	KSC-1	KSC SCHEDULING AT ER, ROCC
	KSC-2	KSC SCHEDULING, CARGO COMMUNICATIONS
	KSCNF	KSC NEWS FACILITY
	KTS	KNOTS
	KUSP	KU BAND SIGNAL PROCESSOR
	KW	KILOWATTS
L:	L	LAUNCH, TIME MEASURED FROM
	L/F	LANDING FIELD
	LACB	LANDING AIDS CONTROL BUILDING
	LAIR	LIQUID AIR
	LaRC	LANGLEY RESEARCH CENTER
	LASO	LAUNCH AREA SURVEY OFFICER
	LCC	LAUNCH CONTROL CENTER (KSC)
	LDAR	LIGHTNING DECTION AND RANGING
	LeRC	LEWIS RESEARCH CENTER
	LFP	LANDING FIELD PRIME
	L&L	LAUNCH AND LANDING
	LBR	LOW BIT RATE
	LCC	LAUNCH CONTROL CENTER (KSC)
	LCCHC	LCC HARD COPY
	LCD	LAUNCH COUNTDOWN
	LCT	LAUNCH/LANDING CONTROL TEAM
	LDR	LOW DATA RATE
	LETF	LAUNCH EQUIPMENT TEST FACILITY (KSC)

CONTINUED

[PRD] DATABASE RECORD: 204397
ITEM NUMBER: K1

	LFP1	LANDING FIELD PRIME 1
	LFP2	LANDING FIELD PRIME 2
	LH2	LIQUID HYDROGEN
	LLP	L&L VOLUME II PAYLOADS
	LN2	LIQUID NITROGEN
	LO2	LIQUID OXYGEN
	LOCC	LAUNCH OPERATIONS CONTROL CENTER
	LOS	LOSS OF SIGNAL
	LOSF	LAUNCH OPERATIONS SUPPORT FACILITY (HUNTSVILLE, AL)
	LOV	LOSS OF VIEW; LOSS OF VISIBILITY
	LPS	LAUNCH PROCESSING SYSTEM (KSC)
	LRCC	LEAD RANGE CONTROL CENTER
	LRCO	LEAD RANGE CONTROL OFFICER
	LRD	LANDING RECOVERY DIRECTOR
	LRO	LONG RANGE OPTICS
	LRV	LAUNCH READINESS VERIFICATION
	LSB	LEAST SIGNIFICANT BIT
	LSC	LINEAR SHAPED CHARGE
	LSEAT	LAUNCH SYSTEM EVALUATION ADVANCE TEAMS
	LSO	LANDING SUPPORT OFFICER
	LSR	LAUNCH SITE RECOVERY; LAUNCH SUPPORT REQUIREMENT
	LSS	LEAST SIGNIFICANT SYLLABLE
M:	M	MEGA; MONITOR
	m	METER
	MADS	MODULAR AUXILIARY DATA SYSTEM
	MAF	MICHOUD ASSEMBLY FACILITY
	MAG	MAGNETIC
	MAP	MESSAGE ACCEPTANCE PULSE; MORON AB, SPAIN
	MARSS	METEOROLOGY AND RANGE SAFETY SYSTEM (ER)
	MA1A	TYPE OF RUNWAY BARRIER (AF)
	MA2	U.S. AIR FORCE SURVIVAL KIT
	MB/MBR	MILLIBAR
	Mb/s	MEGABITS PER SECOND (MILLION BITS PER SECOND)
	MCBR	MOBILE C-BAND RADAR
	MCC	MISSION CONTROL CENTER (HOUSTON, TX)
	MDD	MATE DEMATE DEVICE
	MDDF	MINIMUM DELAY DATA FORMAT
	MDM	MULTIPLEXER/DEMULTIPLEXER

CONTINUED

[PRD] DATABASE RECORD: 204397
ITEM NUMBER: K1

MDSD	MATE/DEMATE, STIFFLEG DERRICK
MEAS	MEASUREMENT
MEC	MAIN ENGINE CONTROLLER
MECO	MAIN ENGINE CUTOFF
MEDEVAC	MEDICAL EVACUATION
MER	MISSION EVALUATION ROOM (JSC)
MET	MISSION ELASPED TIME; METEOROLOGICAL; METEOROLOGICAL EVALUATION TAPE
MEQ	ORBITER MECHANISMS (TV-MSD-14)
MFF	MULTI FUNCTION FACILITY (KSC)
MFR	MULTIFUNCTIONAL RECEIVER
MHz	MEGA-HERTZ (MILLION CYCLES PER SECOND)
MIDDS	METEOROLOGIST INTERACTIVE DATA DISPLAY
MIL	MERRITT ISLAND, (FL) STDN STATION
MILA	MAIL CODE FOR MERRITT ISLAND STDN STATION
min	MINUTE
MIPS	MSFC INTEGRATION PLANNING SYSTEM
MIT	MCC INTERFACE TEST
ML	MOBILE LAUNCHER
MLA	MERRITT ISLAND, (FL) C-BAND-ER
MLMC	MERRITT ISLAND, (FL) C-BAND (19.17 RADAR)
MLP	MOBILE LAUNCH PLATFORM
MLS	MICROWAVE LANDING SYSTEM
MMC	MISSION MANAGEMENT CENTER
MMDB	MASTER MEASUREMENT DATA BASE
MMH	MONOMETHYL HYDRAZINE
MMT	MISSION MANAGEMENT TEAM
MO	MONTHS
MOCR	MISSION OPERATIONS CONTROL ROOM (JSC)
MOD	MISSION OPERATIONS DIRECTOR (JSC)
MON	MONITOR
MORD	MEDICAL OPERATIONS REQUIREMENTS DOCUMENT
MORON	MORON AB, SPAIN
MOSIP	MEDICAL OPERATIONS SITE IMPLEMENTATION PLAN
MOTS	MOBILE OPTICAL TRACKING SYSTEM
MPA	MASTERPOSITIVE "A" WIND (PHOTOGRAPHY)
MPAD	MISSILE PLANNING AND ANALYSIS DIVISION
MPB	MASTERPOSITIVE "B" WIND (PHOTOGRAPHY)
MPG	MISSION PLANNING GUIDANCE

CONTINUED

[PRD] DATABASE RECORD: 204397
ITEM NUMBER: K1

	MPO	MISSION PLANNING OUTLOOK
	MPS	MAIN PROPULSION SYSTEM
	mps	METERS PER SECOND
	MRE	MEALS, READY TO EAT
	MSB	MOST SIGNIFICANT BIT
	MSBLS	MICROWAVE SCANNING BEAM LANDING SYSTEM
	MSC	METEOROLOGICAL SYSTEMS COMPUTER
	MSFC	MARSHALL SPACE FLIGHT CENTER (AL)
	MSL	MEAN SEA LEVEL
	MSN	MISSION
	MSR	MISSION SUPPORT ROOM
	MSS	METEOROLOGICAL SOUNDING SYSTEM
	MTF	MISSISSIPPI TEST FACILITY (NOW NSTL)
	MTL	MT. LEMMON (C-BAND, U.S. ARMY)
	MW	MICROWAVE
N:	NISN	NASA INTEGRATED SERVICES NETWORK
	NAWC	NAVAL AIR WARFARE/WEAPONS CENTER (WR)
	NCC	NASA CONVOY COMMANDER
	NEXRAD	DOPPLER WEATHER RADAR
	NF	NEWS FACILITY
	NGT	NASA GROUND TERMINAL
	NHS	NEW HAMPSHIRE TRACKING STATION (RTS)
	NIC	NETWORK INTEGRATION CENTER (GSFC)
	NIP	NETWORK INTERFACE PROCESSOR
	NM	NAUTICAL MILE
	NMC	NATIONAL METEOROLOGICAL CENTER (SUITLAND, MD)
	NMI	NASA MANAGEMENT INSTRUCTION
	No.	NUMBER
	NOAA	NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
	NOCC	NETWORK OPERATIONS CONTROL CENTER
	NOM	NETWORK OPERATIONS MANAGER
	NORAD	NORTH AMERICAN AIR DEFENSE
	NOTAM	NOTICE TO AIRMAN
	NRT	NEAR REAL TIME
	NRZ	NON-RETURN-TO-ZERO
	NSP	NETWORK SIGNAL PROCESSOR
	NSTL	NATIONAL SPACE TECHNOLOGY LABORATORY (WAS MTF)
	NSTS	NATIONAL SPACE TRANSPORTATION SYSTEM

CONTINUED

[PRD] DATABASE RECORD: 204397
ITEM NUMBER: K1

	NTD	NASA TEST DIRECTOR AT CONSOLE AB-5
	NTSC	NATIONAL TELEVISION STANDARDS CODE (OF COMMITTEE)
	NTWKS	NETWORKS
	NWASI	NORTHRUP WORLDWIDE AIRCRAFT SERVICE INCORPORATED
	NWS	NATIONAL WEATHER SERVICE
O:	OAS	ONIZUKA AIR STATION
	OBS	OBSERVATION
	OCF	ORBITER CHECKOUT FACILITY
	O & C	OPERATIONS AND CHECKOUT BUILDING (KSC)
	OCC	OPERATIONS CONTROL CENTER (WSSH)
	OD	OPERATIONAL DOWNLINK/DATA; OPERATIONS DIRECTIVE
	ODF	ORBIT DETERMINATION FACILITY
	ODRC	ORBITER DATA REDUCTION COMPLEX
	OFT	ORBITAL FLIGHT TEST
	OHF	OCCUPATIONAL HEALTH FACILITY (KSC)
	OI	OPERATIONAL INSTRUMENTATION
	OIS	OPERATIONAL INTERCOMMUNICATIONS SYSTEM
	OIS-D	OPERATIONAL INTERCOMMUNICATIONS SYSTEM-DIGITAL
	OIT	ORBITER INTEGRATED TEST
	OL	OPEN LOOP
	OM-A	OPTICAL MASTER - A WIND (PHOTOGRAPHY)
	OM-B	OPTICAL MASTER - B WIND (PHOTOGRAPHY)
	OMD	OPERATIONS & MAINTENANCE DOCUMENTATION
	OMI	OPERATIONS & MAINTENANCE INSTRUCTIONS
	OMR	OPERATIONS MANAGEMENT ROOM (LCC)
	OMS	ORBITAL MANUEVERING SYSTEM
	OPF	ORBITER PROCESSING FACILITY (KSC)
	OPO	ORBITER PROJECTS OFFICE
	OPS	OPERATIONS FLIGHT; OPERATIONS
	OR	OPERATIONS REQUIREMENT (DOCUMENT)
	ORD	ORDNANCE
	OSR	OPERATIONS SUPPORT ROOM (LCC)
	OSTS	OFFICE OF SPACE TRANSPORTATION SYSTEMS
	OTC	ORBITER TEST CONDUCTOR
	OTD	ORBITER TEST DIRECTOR
	OTV	OPERATIONAL TELEVISION
	OV	ORBITER VEHICLE
	OVC	OVERCAST

CONTINUED

[PRD] DATABASE RECORD: 204397
ITEM NUMBER: K1

P:	P/L	PAYLOAD
	PAA	PAN AMERICAN WORLD AIRWAYS
	PABX	PRIVATE ACCESS BRANCH EXCHANGE
	PAFB	PATRICK AIR FORCE BASE (FL)
	PAO	PUBLIC AFFAIRS OFFICER
	PAPI	PRECISION APPROACH PATH INDICATOR
	PAT	PATRICK AIR FORCE BASE (C-BAND-ER)
	PCID	PROGRAM CHANGE IDENTIFICATION
	PCM	PULSE CODE MODULATION; POWER CONTROL MISSION
	PCMMU	PULSE CODE MODULATION MASTER UNIT
	PCR	PAYLOAD CHANGEOUT ROOM
	PDL	PONCE DE LEON, (FL) STDN STATION
	PDR	PROCESSED DATA RECORDER
	PEL	PUBLIC EXPOSURE LIMIT
	PET	PHASE ELAPSED TIME
	PGHM	PAYLOAD GROUND HANDLING MECHANISM
	PI	PRINCIPAL INVESTIGATOR; PROGRAM INTRODUCTION (DOCUMENT)
	PIBAL	PILOT BALLOON
	PIC	PYROTECHNIC INITIATOR CONTROLLER
	PIO	PUBLIC INFORMATION OFFICE/OFFICER
	PJ	PARARESCUEMEN
	PL	PRIVATE LINE
	PLTS	PRECISION LASER TRACKING SYSTEM
	PM	PHASE MODULATION
	PMTC	PACIFIC MISSILE TEST CENTER (OBSOLETE SEE NAWC)
	PNEU	PNEUMATIC
	POCC	PAYLOAD OPERATIONS CONTROL CENTER
	POS	POSITION
	PP	PRESENT POSITION; PUSH-PULL
	PPB	PARTS PER BILLION
	PPI	PULSE POSITION INDICATOR (RADAR)
	PPM	PARTS PER MILLION
	PRCB	PROGRAM REQUIREMENTS CONTROL BOARD
	PRD	PROGRAM REQUIREMENTS DOCUMENT
	PRES	PRESSURE
	PRP	PERSONNEL RELIABILITY PROGRAM
	PRSD	POWER REACTANT STORAGE DISTRIBUTION
	PS	PROTECTIVE SERVICES

CONTINUED

[PRD] DATABASE RECORD: 204397
ITEM NUMBER: K1

	PSCN	PROGRAM SUPPORT COMM NETWORK
	PSF	POUNDS PER SQUARE FOOT
	PSK	PHASE SHIFT KEYED
	PSM	PROGRAM SUPPORT MANAGER (AF PSM AT ROCC)
	PSP	PROGRAM SUPPORT PLAN
	PTR	PRELIMINARY TEST REPORT
	PYRO	PYROTECHNICS
Q:	QA	QUALITY ASSURANCE
	QC	QUALITY CONTROL
	QTY	QUANITY
R:	RAMZ	RIGGING ALTERNATIVE METHOD ZODIAC
	RH	RELATIVE HUMIDITY
	RI	ROCKWELL INTERNATIONAL
	R/S	RANGE SAFETY
	R/T	REAL TIME; RECEIVE AND TRANSMIT
	ROCC	RANGE OPERATIONS CONTROL CENTER (ER)
	RCDR	RECORDER
	RCS	REACTION CONTROL SYSTEM
	RCVR	RECEIVER
	RED P	REDUCTION PRINT (PHOTOGRAPHY)
	REIL	RUNWAY END IDENTIFYER LIGHTS
	REQMTS	REQUIREMENTS
	REV	REVOLUTION
	RF	RADIO FREQUENCY
	RFA	RF AUTHORIZATION
	RFI	RADIO FREQUENCY INTERFRENCE
	ROCC	RANGE OPERATIONS CONTROL CENTER
	ROD	RAW OPERATIONS DOWNLINK
	ROTI	RECORDING OPTICAL TRACKING INSTRUMENT (DOAMS)
	RP	RELEASE PRINT (PHOTOGRAPHY)
	RPS	RECORD AND PLAYBACK SUBSYSTEM
	R/R	REQUIREMENTS/RESPONSE
	RSD	RANGE SAFETY DISPLAY
	RSDP	REMOTE SITE DATA PROCESSOR
	RSDS	RANGE SAFETY DISPLAY SYSTEM
	RSO	RANGE SAFETY OFFICER
	RSR	RANGE SAFETY REPRESENTATIVE

CONTINUED

[PRD] DATABASE RECORD: 204397
ITEM NUMBER: K1

	RSS	RANGE SAFETY SYSTEM; ROTATING SERVICE STRUCTURE
	RTC	REAL TIME COMMAND
	RTCS	REAL TIME COMPUTER SYSTEMS
	RTLS	RETURN TO LAUNCH SITE
	RTS	REMOTE TRACKING STATION; RANGE TECHNICAL SERVICES
	RVCF	REMOTE VEHICLE CHECKOUT FACILITY
	R/W	RUNWAY
	RW	RAIN SHOWERS
	RWO	RANGE WEATHER OPERATIONS (FORMERLY CCFF)
	RX	RECEIVE; RECEIVER
S:	S/C	SPACECRAFT
	SAEF	SPACECRAFT ASSEMBLY & ENCAPSULATION FACILITY (KSC)
	SAF	SPANISH AIR FORCE
	SAIL	SHUTTLE AVIONICS INTEGRATIONS LAB, (JSC)
	SAR	SEARCH AND RESCUE
	SCA	SHUTTLE CARRIER AIRCRAFT
	SCAPE	SELF-CONTAINED ATMOSPHERIC PROTECTIVE ENSEMBLE
	SCF	SATELLITE CONTROL FACILITY (SUNNYVALE, CA)
	SCT	SCATTERED CLOUDS
	SDO	SUPPORT DUTY OFFICER
	SDIO	STRATEGIC DEFENSE INITIATIVE OFFICE
	SDPC	SHUTTLE DATA PROCESSING COMPLEX (JSC)
	sec	SECOND
	SEM	SPACE ENVIROMENT MONITORING
	SFC	SURFACE CLOUDS
	SGS	SPACE GATEWAY SUPPORT (KSC)
	SIRO	SURFACE INSTRUMENTATION READINGS AND OBSERVATION
	SIT	SHUTTLE INTERFACE TEST
	SKR	SERIAL KG RECOMBINER
	SLF	SHUTTLE LANDING FACILITY (KSC)
	SLS	SECONDARY LANDING SITE
	SLSS	SHUTTLE LAUNCH SUPPORT SYSTEM, MIL (GSFC)
	SMG	SPACEFLIGHT METEOROLOGICAL GROUP (JSC)
	SMPTE	SOCIETY OF MOTION PICTURE & TELEVISION ENGINEERS
	SN	SPACE NETWORK (GSFC)
	SN 2	SPACENET 2
	SOAS	SHUTTLE ORBITER ARRESTING SYSTEM
	SOC	SUPPORT OPERATIONS CENTER (DOD); SIMULATIONS

CONTINUED

[PRD] DATABASE RECORD: 204397
ITEM NUMBER: K1

		OPERATION CENTER (GODDARD)
	SPA	SHUTTLE PROCESSING AREA (DFRC 0R WSSH)
	SPAN	SPACECRAFT ANALYSIS
	SPD	SHUTTLE PROCESSING DIRECTOR
	SPF	SPACELAB PROCESSING FACILITY (JSC)
	SPS	SAMPLES PER SECOND
	SRB	SOLID ROCKET BOOSTER
	SRBTS	SRB RADAR BEACON TRACKING SYSTEM
	SRM	SOLID ROCKET MOTOR
	SRO	SENIOR RANGE OFFICER
	SRS	SUPPORT REQUIREMENTS SYSTEM; SEARCH AND RESCUE
	SRSS	SHUTTLE RANGE SAFETY SYSTEM
	SSB	SINGLE SIDE BAND
	SSME	SPACE SHUTTLE MAIN ENGINE
	SSO	SPACE SHUTTLE ORBITER
	SSP	SPACE SHUTTLE PROGRAM
	SSPO	SPACE SHUTTLE PROGRAM OFFICE
	SSSO	SPACE SHUTTLE SYSTEMS OPERATION (HQS)
	SSY	SUBSUPPLIER
	STA	SHUTTLE TRAINING AIRCRAFT
	STC	SATELLITE TEST CENTER (SUNNYVALE, CA USAF)
	STCS	SATELLITE TELEMETRY CONVERSION SYSTEM
	STD	SHUTTLE TEST DIRECTOR AT CONSOLE AB-6
	STDN	SPACEFLIGHT TRACKING AND DATA NETWORK
	STM	SUPPORT TEST MANAGER; STATIC TEST MODEL
	STS	SPACE TRANSPORTATION SYSTEM (NO LONGER USED WITH EXCEPTIONS)
	STU	SECURE TELEPHONE UNIT
	SUE	SYSTEM UTILIZATION ENHANCEMENT; SHUTTLE UNIQUE EQUIP.
	SV	SHUTTLE VEHICLE
	Swbd	SWITCHBOARD
	SYS	SYSTEM
T:	T	TALK; TEMPERATURE
	T/M	TALK - MONITOR
	TAC	TACTICAL
	TACAN	TACTICAL AIR NAVIGATION SYSTEM
	TAEM	TERMINAL AREA ENERGY MANAGEMENT
	TAER	TIME, AZIMUTH, ELEVATION, RANGE

CONTINUED

[PRD] DATABASE RECORD: 204397
ITEM NUMBER: K1

	TAF	TERMINAL AERODROME FORECAST
	TAL	TRANSOCEANIC ABORT LANDING
	TBC	THE BIONETICS CORPORATION
	TBD	TO BE DETERMINED
	TBS	TO BE SUPPLIED
	TCDT	TERMINAL COUNTDOWN DEMONSTRATION TEST
	TCN	TRANSPORTATION CONTROL NUMBER
	TCS	OAK HANGAR TRACKING STATION (RTS)
	TD	TOUCHDOWN
	TDM	TIME DIVISION MULTIPLEX
	TDMA	TIME DIVISION MULTIPLEX ACCESS
	TDPS	TRACKING DATA PROCESSING SYSTEM (MIL)
	TDRS	TRACKING AND DATA RELAY SATELLITE
	TDRSS	TRACKING AND DATA RELAY SATELLITE SYSTEM
	TEMP	TEMPERATURE
	THBCC	TOXIC HAZARD AND BLAST CONTROL CENTER
	THC	TOXIC HAZARDOUS CORRIDORS
	TLM	TELEMETRY
	TN	TDRS NETWORK
	TPS	THERMAL PROTECTION SYSTEM
	TRAJ	TRAJECTORY
	TRBL	TROUBLE
	TRK	TRACK; TRACKING
	TRW	THUNDER SHOWERS/STORMS
	TSC	TEST SUPPORT CONTROLLER
	TSM	TAIL SERVICE MAST
	TTS	THULE TRACKING STATION (RTS)
	TTY	TELETYPE
	TV	TELEVISION
	TVC	THRUST VECTOR CONTROL
	TVOC	TELEVISION OPERATIONS CENTER (CCAFS)
	TVRO	TELEVISION RECEIVE ONLY
	TVWG	TELEVISION WORKING GROUP
	TX	TRANSMIT; TRANSMITTER
U:	U/L	UPLINK
	UCS	UNIVERSAL CAMERA SITES
	UDS	UNIVERSAL DOCUMENTATION SYSTEM
	UHF	ULTRA HIGH FREQUENCY

CONTINUED

[PRD] DATABASE RECORD: 204397
ITEM NUMBER: K1

	UK	UNITED KINGDOM
	U.S.	UNITED STATES
	USAEPG	U.S. ARMY ELECTRONIC PROVING GROUND (WHITE SANDS, NM)
	USAKA	U.S. ARMY KWAJALIN ATOLL
	USB	UNIFIED S-BAND
	USCG	U.S. COAST GUARD
V:	V/M	VOLTS PER METER
	VAB	VEHICLE ASSEMBLY BUILDING (KSC)
	VAC	VOLTS, ALTERNATING CURRENT
	VAFB	VANDENBURG AIR FORCE BASE (CA)
	VDB	VAFB (CA) (C-BAND-WR)
	VEE	VECTOR EQUIVALENT ERROR
	VFTG	VOICE FREQUENCY TELEGRAPH
	VHF	VERY HIGH FREQUENCY
	VIB	VERTICAL INTEGRATION BUILDING (KSC)
	VIT	VERTICAL INTERVAL TEST
	VITT	VEHICLE INTEGRATION TEST TEAM
	VLS	VISUAL LANDING AIDS
	VOL	VOLUME
	VOR	VHF OMNIDIRECTIONAL RADIO RANGE
	VPF	VERTICAL PROCESSING FACILITY (KSC)
	VPF	VERTICAL PROCESSING FACILITY (SAEF NO.1) (KSC)
	VTS	VAFB TRACKING STATION (RTS)
W:	WA	WHEN AVAILABLE (APPLIES TO TDRSS ONLY)
	WB; W/B	WIDEBAND
	WBD	WIDEBAND DATA
	WBR	WIDEBAND RECORDER
	WBT	WIDEBAND TAPE
	WD	WORKING DAYS
	WFF	WALLOPS FLIGHT FACILITY, (VI) (GSFC)
	WHAV	WHEN AVAILABLE
	WK	WEEK
	WLP	WALLOPS ISLAND STATION AT WALLOPS FLIGHT FACILITY
	WLPS	WALLOPS ISLAND, VA. S-BAND 9 METER ANTENNA (JSC)
	WOTS	WALLOPS ORBITAL TRACKING STATION
	WOW	WEIGHT ON WHEELS
	WP	WORK PRINT (PHOTOGRAPHY)

CONTINUED

[PRD] DATABASE RECORD: 204397
ITEM NUMBER: K1

	WPM	WORDS-PER-MINUTE
	WPS	WALLOPS ISLAND ORBITER TRACKING STATION
	WPSA	WALLOPS ISLAND VA. S-BAND 9 METER ANTENNA (GSFC)
	WR	WESTERN RANGE (WR)
	WSC	WHITE SANDS COMPLEX (NM)
	WSMC	WESTERN SPACE & MISSILE CENTER (WR)
	WSMR	WHITE SANDS MISSILE RANGE (U.S. ARMY)
	WSSH	WHITE SANDS SPACE HARBOR (NM)
	WSSHCC	WHITE SANDS SPACE HARBOR CONTINGENCY COORDINATOR
	WSSH OCC	WHITE SANDS SPACE HARBOR OPERATIONS CONTROL CENTER
	WSTF	WHITE SANDS TEST FACILITY (NASA JSC)
	WR	WESTERN RANGE (WESTERN SPACE & MISSILE CENTER)
	WTB	WIRE TEST BOARD
	WTH	WATER TIGHT HATCH
	WTR	WESTERN TEST RANGE (WESTERN SPACE & MISSILE CENTER) (OBSOLETE SEE WR)
	WX	WEATHER
X:	XMTR	TRANSMITTER
	XP	TRANSPONDER
Y:	Y	YAW
	YR	YEAR
Z:	Z	ZULU (GREENWICH MEAN TIME - GMT)
	ZAB	ZARAGOZA AB, SPAIN
	ZARA	

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1051 - TEST CODE DEFINITION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 202552 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/03/88
INITIAL DATE: 11/03/88
ITEM NUMBER: K1 DATE LAST CHANGED: 07/03/02
SECTION: 1051 TIME LAST CHANGED: 08:04:42

REQUESTER: KSC
TEST CODE: STSALL
TRACKING NO. R26195 R2675 R2739 R3437

1. DESCRIPTION: THIS SECTION IS USED TO DEFINE THE TEST CODES THAT WILL BE USED THROUGHOUT THE SHUTTLE (LLS) L&L PRD/PSP/OR/OD DATA BASE. BLOCK 9 CONTAINS TEST CODES USED IN THE DOCUMENT TO IDENTIFY PROGRAM REQUIREMENTS BY LOCATION/ACTIVITY/ETC.

[PRD] DATABASE RECORD: 16659 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/18/01
INITIAL DATE: 11/21/91
ITEM NUMBER: K2DEGHKTXYZ DATE LAST CHANGED: 05/30/07
SECTION: 1051 TIME LAST CHANGED: 10:33:06

REQUESTER: KSC
SUBREQUESTER: PH-B USK-068
TEST CODE: EAFB INFO STSALL
TRACKING NO. KING2001 L4359 L4436 L4601 L6012
L7616 L8108 L8917 R104-5 R26195
R2675 R2739 R2954 R3437 R8303

1. DESCRIPTION: ASSOCIATED DOCUMENTS AND DEFINITIONS

THIS ITEM IDENTIFIES THOSE OMI'S/TESTS FOR WHICH FORMAL OR'S/OD'S HAVE BEEN PUBLISHED. R/R MANAGERS ARE TO ASSURE THAT ALL KNOWN REQUIREMENTS ARE PROPERLY TEST CODED AND HAVE BEEN PLACED IN THIS DOCUMENT.

TEST CODE LLS OR/OD	DEFINITION OR MEANING
MODE8	DOD MODE VIII EXERCISE
20003S	ET MOVE AND MATE SRB'S
20004S	ORBITER ET/MATE
20007S	SHUTTLE COUNTDOWN (LPS)
20008S	SHUTTLE INTERFACE TEST (LPS)

CONTINUED

[PRD] DATABASE RECORD: 16659
ITEM NUMBER: K2DEGHKTXYZ

20009S	SHUTTLE LAUNCH PAD VALIDATION W/CONTINGENCY APU CONFIDENCE RUN
20014S	FLIGHT READINESS FIRING (LPS)
20017S	TERMINAL COUNTDOWN DEMONSTRATION TEST (LPS)
20024S	PRELAUNCH PROPELLANT SERVICING (LPS)
20026S	SHUTTLE LANDING-POST LANDING CONVOY OPS-EAFB
20027S	SHUTTLE LANDING-POST LANDING CONVOY OPS-WSSH
20028S	SHUTTLE LANDING/POST LANDING CONVOY OPS-SLF (KSC)
20037S	LH2 LOAD AND TANKING TEST (LPS) - PAD
25001S	ORBITER OFF-LOAD AT SLF
25009S	FINAL ORDNANCE INSTALLATION/CONNECTION (LPS)
25022S	POST LANDING DESERVICING/MATE TO SCA - DFRC
25041S	ORBITER/SCA MATE-SLF
25111V	ORB TOW TO VAB FOR ORB/ET MATE
25214A	SHUTTLE TRANSFER & MATE TO PAD
25303B	SRB STACKING & ALIGNMENT OPS
25306B	SRB ORDINANCE CONNECTION/PAD CLOSE OUT
25307B	RSRM JOINT HEATER FUNCTIONAL TEST
25321B	SRB RETRIEVAL MISSION
OMI 1149	VAB ORBITER RECIRC PUMP DRY SPIN TEST

ADMINISTRATIVE
NOTE: SEE LLS SECTION 1010, DBR 179456, FOR OFFICIAL OR/OD LEVEL APPROVAL AUTHORITY PAGE.

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 06/18/01
RESPONSE TRACKING: Z104-4 Z8134 Z8304 Z8929

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 06/18/01
RESPONSE TRACKING: Z104-4 Z8134 Z8304 Z8929

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)

CONTINUED

[PRD] DATABASE RECORD: 16659
ITEM NUMBER: K2DEGHKTXYZ

RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 06/18/01
RESPONSE TRACKING: Z104-4 Z8134 Z8304 Z8929

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 06/18/01
RESPONSE TRACKING: Z104-4 Z8134 Z8304 Z8929

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: PH-B2
RESPONDER: ERIC BARCON/321 867-3522

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 06/18/01
RESPONSE TRACKING: Z104-4 Z8134 Z8304 Z8929

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/284 483-0572

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 06/18/01
RESPONSE TRACKING: Z104-4 Z8134 Z8304 Z8929

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 06/18/01
RESPONSE TRACKING: Z104-4 Z8134 Z8304 Z8929

SUPPLIER: NASA HQ AGENCY: NASA/HQ (NASA HEADQUARTERS (WASHINGTON))

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 06/18/01
RESPONSE TRACKING: Z104-4 Z8134 Z8304 Z8929

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 06/18/01

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1051 - TEST CODE DEFINITION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 16659
ITEM NUMBER: K2DEGHKTXYZ

RESPONSE TRACKING: Z104-4 Z8134 Z8304 Z8929

[PRD] DATABASE RECORD: 16675
DOCUMENT ID: LLS
ITEM NUMBER: K3DEGHKTXYZ
SECTION: 1051

REQUIREMENT STATUS: APPROVED
APPROVAL DATE: 01/09/97
INITIAL DATE: 11/21/91
DATE LAST CHANGED: 05/30/07
TIME LAST CHANGED: 10:33:06

REQUESTER: KSC
SUBREQUESTER: PH-B USK-068
TEST CODE: EAFB INFO STSALL
TRACKING NO. KING2001 L2806 L2832 L2837 L3802
L3906 L4436 L5022 L6004 L6012
L6206 L8108 R2739 R2954 R3437
R3926 R4806

1. DESCRIPTION: THIS ITEM IDENTIFIES "ADMINISTRATIVE"/INFORMAL/ SUB-SORT ONLY TEST CODES. THERE ARE NO FORMAL OR'S/OD'S FOR THESE "ADMINISTRATIVE" TEST CODES. ANY SUPPORT REQUIRED FOR ANY OF THESE OMI'S/TEST CODES MUST BE INDIVIDUALLY REQUESTED THROUGH NORMAL SCHEDULING CHANNELS.

TEST CODES ADMINISTRATIVE	DEFINITION
ADVRSE	ADVERSE WEATHER WARNING/CONDITIONS
ALPHSE	ALL PHASES
ALS	AUGMENTED LANDING SITE
BL	BASE LINE
CCAFS	APPLICABLE AT CCAFS (CAPE)
CHASE	APPLICABLE TO NASA TV CHASE PLANE
CKT	CKT36 - CIRCUIT NO. 36 (IDENTIFIED IN THE 2750 INDEX AS "TROUBLESHOOTING OIS-183") (THESE TEST CODES APPLY TO 2750 SECTION ONLY)
DFRC	APPLICABLE AT DRYDEN FLIGHT RESEARCH CENTER
DODAEL	DOD AUGUMENTED EMERGENCY LANDING SITES
DODALL	APPLICABLE TO ALL DOD MISSIONS

CONTINUED

[PRD] DATABASE RECORD: 16675
ITEM NUMBER: K3DEGHKTXYZ

DODALS	DOD AUGMENTED LANDING SITES
DODELS	DOD EMERGENCY LANDING SITES
EAFB	APPLICABLE AT DFRC/EAFB
ELS	APPLICABLE AT EMERGENCY LANDING SITES
FERRY	APPLICABLE FOR FERRY OPERATIONS
FULLTIME	CIRCUIT CONFIGURED 24 HOURS 7 DAYS A WEEK (24 X 7)
GSFC	APPLICABLE TO GODDARD SPACE FLIGHT CENTER
GUAM	APPLICABLE FOR ANDERSEN AFB, GUAM
HAFB	APPLICABLE FOR HOLLOMAN AFB N.M.
HICKAM	APPLICABLE FOR HICKAM AFB, HAWAII
INFO	APPLICABLE TO INFORMATION ONLY
JSC	APPLICABLE AT JSC
KSC	APPLICABLE AT KSC
L	LSR--XX FOR STS--MISSION (TYPICAL)
L-1DAY	APPLICABLE FOR L-1DAY SUPPORT
LI-02,27,50	LINE ITEM 02,27,50 APPLICABLE TO SECTION 2630 ONLY
	(USED BY USA FOR SPECIAL DATA RETREIVAL)
LANDNG	APPLICABLE FOR LANDING
LAUNCH	APPLICABLE FOR LAUNCH
LCC	APPLICABLE AT KSC/LCC
LDROUT	APPLICABLE TO LANDING ROLLOUT
USAALS	APPLICABLE FOR USA SUPPORTED ALS'S
USAELS	APPLICABLE FOR USA SUPPORTED ELS'S
MEET--	MEET 84,86,87 (TYPICAL)
MORON	APPLICABLE TO MORON AB, SPAIN
MSBLS	APPLICABLE FOR MSBLS
MSFC	APPLICABLE AT MARSHALL SPACE FLIGHT CENTER
NAWC	NAVAL AIR WEAPONS CENTER

CONTINUED

[PRD] DATABASE RECORD: 16675
ITEM NUMBER: K3DEGHKTXYZ

OMR	OPERATIONS MANAGEMENT ROOM - LCC
OPF	ORBITER PROCESSING FACILITY - KSC
ORBIT	APPLICABLE FOR ON ORBIT SUPPORT
OV102	APPLICABLE TO ORBITER 102 (COLUMBIA)
OV103	APPLICABLE TO ORBITER 103 (DISCOVERY)
OV104	APPLICABLE TO ORBITER 104 (ATLANTIS)
OV105	APPLICABLE TO ORBITER 105 (ENDEAVOUR)
PAFB	APPLICABLE AT PATRICK AFB, FL.
PREFLT	APPLICABLE FOR PRE FLIGHT
R--XX	RSR NOXX FOR STS-- MISSION (TYPICAL)
RECOVY	APPLICABLE TO FLIGHT CREW RECOVERY OPERATIONS
RETREV	APPLICABLE FOR SRB RETRIEVAL
RTLS	APPLICABLE FOR RETURN TO LAUNCH SITE AT KSC
SECURE	APPLICABLE FOR SECURE COMM, ETC.
SLF	APPLICABLE TO KSC /SLF
SOC	DDMS SUPPORT OPERATIONS CENTER
SPECIAL	APPLICABLE TO OPERATIONS THAT ARE NOT SHUTTLE MISSIONS
STSALL	APPLICABLE FOR ALL SHUTTLE MISSIONS
STS---	PERTAINS TO PRD AND/OR SHUTTLE FLIGHT ACTIVITY EXAMPLE: STSALL - ALL SHUTTLE OPS. FLIGHTS
STS--+	APPLICABLE TO STS-- AND ALL SUBSEQUENT FLIGHTS EXAMPLE: STS34+
SUPSIM	"SUPSIM" WAS ENTERED IN THE TEST CODE BLOCK AS AN ADMIN TEST CODE FOR ITEMS IN THE ORIGIONAL (FULL UP) 20044S, WHICH IS NOW RUN AS A SHORT TEST.
S5044	POST LANDING DESERVICING/MATE TO SCA - CLS
S6009	REQUIREMENTS FOR USK-109 SD 26009S
TAL	APPLICABLE FOR TRANSOCEANIC ABORT LANDING SITES
TDRSS	APPLICABLE TO TDRSS
TEL-4	APPLICABLE TO R/TEL-4 TLM STA.
TVHELO	APPLICABLE FOR TV HELO SUPPORT
VAP	VEHICLE AT PAD (USED BY USA IN SECTION 2606)

CONTINUED

[PRD] DATABASE RECORD: 16675
ITEM NUMBER: K3DEGHKTXYZ

V1008	MSBLS WAVEGUIDE LEAK CHECK
V1043	INERTIAL MEASUREMENT UNIT (IMU) FUNCTIONAL CHECKOUT AND CAL (LPS)
V1045	OMS/RCS HYPERGOLIC SERVICING PRE-OPS
V1103	EXTRAVEHICULAR MOBILITY UNIT (EMU)/ORB I/F VALIDATION TEST - OPF (LPS)
V1117	COMMUNICATION LAUNCH CONFIGURATION CHECKOUT AND CAL (LPS)
V1216	APU CONFIDENCE RUN (LPS)
WFF	WALLOPS FLIGHT FACILITY (RADAR)
WLPS	APPLICABLE TO GSFC/WLPS SITE
WSMR	APPLICABLE TO WHITE SANDS MISSILE RANGE
WSSH	APPLICABLE TO WHITE SANDS SPACE HARBOR
Y2007	PMS OPERATION SUPPORT
ZARAGOZA	APPLICABLE TO ZARAGOZA AB, SPAIN
60, 62, 59	APPLICABLE TO SECTION 2606 ONLY. USED BY USA FOR SPECIAL DATA RETREVIAL.
20019S	DOD SUPPORT OPERATIONS CENTER (SOC) SUPPORT
20020S	SHUTTLE FC INTEGRATED TEST (LPS)
20029S	SHUTTLE LANDING-POST LANDING OPS MORON
20033S	ET DEMATE FROM SRB AND MOVE ET
20044S	SHUTTLE FINAL CD PHASE SIM (LPS)
20046S	LAUNCH CONFIDENCE TEST
20055S	SHUTTLE LANDING-POST LANDING OPS TAL BEN GUERIR, MOROCCO
20056S	SHUTTLE PROPELLANT LOADING COUNTDOWN SIMULATION,LPS
20057S	SHUTTLE LANDING - POST LANDING OPS TAL ZARAGOZA AB, SPAIN
21011V	SSME ENG. DRYING - POST LANDING (LPS)
21034V	ORB FLIGHT CONTROL FREQ RESP TEST
21046V	SSME LEAK & FUNCT VERT (LPS) (CONT)
21200V	ORB FLIGHT RECORDER DUMP TO GSE DURING POST LANDING
21216V	APU CONFIDENCE RUN (LPS)

CONTINUED

[PRD] DATABASE RECORD: 16675
ITEM NUMBER: K3DEGHKTXYZ

25141B	SRB DESTACK
25217A	SHUTTLE XFER/PAD TO VAB (ROLLBACK)
26002	MSBLS TESTING ALL SITES
26002A	MSBLS GROUND TESTING AT KSC
26002B	MSBLS FLIGHT TESTING AT KSC
26002C	MSBLS FLIGHT TESTING AT EAFB
26002D	MSBLS FLIGHT TESTING AT WSMR
29001S	SHUTTLE POWER UP/ POWER DOWN (LPS)
29002S	INTERGRATED DATA REQUIREMENTS
29001V	ORBITER POWER UP/ POWER DOWN (LPS)
5017V002	CREW SYSTEMS DESTOWAGE

45 SW	45TH SPACE WING

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z8134

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z8134

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: GSFCREV06 Z8134

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z8134

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)

CONTINUED

[PRD] DATABASE RECORD: 16675
ITEM NUMBER: K3DEGHKTXYZ

SUBSUPPLIER: PH-B2
RESPONDER: ERIC BARCON/321 867-3522

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z8134

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z8134

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z8134

SUPPLIER: NASA HQ AGENCY: NASA/HQ (NASA HEADQUARTERS (WASHINGTON))

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z8134

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z8134

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1052 - SPECIAL CODE DEFINITION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD:	266709	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	LLS	APPROVAL DATE:	01/05/98
		INITIAL DATE:	10/09/89
ITEM NUMBER:	K1	DATE LAST CHANGED:	05/30/07
SECTION:	1052	TIME LAST CHANGED:	10:48:53

REQUESTER: KSC
SUBREQUESTER: FF-R PH-B
TEST CODE: STSALL
TRACKING NO. A6001 A6002 L05-3-2 L801-1 R0504-3
R8902

1. DESCRIPTION: SHUTTLE SUPPORT

THE ITEM NUMBER, WHICH FOLLOWS THE HEADING OF EACH PAGE, INCLUDES LETTERS AND NUMBERS TO PROVIDE A MEANS OF IDENTIFYING THE REQUESTING AGENCY(S) AND THE SUPPORTING AGENCY(S) (EXAMPLE T3G):
T = (REQUESTING AGENCY) 3 = (NUMBER) G = (SUPPORTING AGENCY)
THE STANDARD LETTER DESIGNATORS TO BE USED FOR EITHER REQUESTING OR SUPPORTING AGENCIES ARE AS FOLLOWS:

B - LEWIS RESEARCH CENTER
D - DEPARTMENT OF DEFENSE (HSFS)
E - 45 SW (SPACE WING)
F - AIR FORCE FLIGHT TEST CENTER
G - GODDARD SPACE FLIGHT CENTER
H - MARSHALL SPACE FLIGHT CENTER
I - LANGLEY RESEARCH CENTER
K - KENNEDY SPACE CENTER
M - AMES RESEARCH CENTER
S - 21 SPACE OPERATIONS SQUADRON (21 SOPS) ONIZUKA A.F.B., CA.
T - JOHNSON SPACE CENTER
X - DRYDEN FLIGHT RESEARCH FACILITY
Y - NASA, HEADQUARTERS
Z - NASA, WHITE SANDS TEST FACILITY (WSTF)

PRIMARY SUPPORT DESIGNATORS WILL BE ASSIGNED AS FOLLOWS: KSC (K) FOR LAUNCH AND LANDING SUPPORT; GSFC (G) FOR NETWORK COMMUNICATION AND TRACKING SUPPORT; HSFS (D) FOR DOD SUPPORT WITH THE EXCEPTION OF THE SUPPORT TO BE PROVIDED BY 45 SW, THE DOD-DESIGNATED-LEAD RANGE POINT-OF-CONTACT.

THE 45 SW IS THE PRIMARY DOD POINT-OF-CONTACT FOR RECEIPT OF RANGE-ORIENTED SUPPORT REQUIREMENTS FOR COORDINATION BETWEEN DOD RANGES

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1052 - SPECIAL CODE DEFINITION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 266709
ITEM NUMBER: K1

FOR ALL DOD RANGE SUPPORT (DOD LEAD RANGE). LEAD RANGE REQUIREMENTS WILL BE CODED (E) TO DESIGNATE 45 SW FOR LEAD RANGE.

NOTE: KSC IS THE LEAD NASA AGENCY FOR COORDINATING 45 SW LEAD RANGE SUPPORT. LEAD RANGE NETWORK SUPPORT WILL BE COORDINATED WITH GSFC AS THE LEAD NASA AGENCY FOR NETWORK MATTERS AND, IN ADDITION, WITH KSC AS THE LEAD NASA INTERFACE WITH THE 45 SW AS PREVIOUSLY DISCUSSED. IN EITHER CASE, RESPONSES FROM 45 SW WILL BE THROUGH THE KSC NASA-AIR FORCE MANAGEMENT OFFICE.

[PRD] DATABASE RECORD: 3965 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/03/05
INITIAL DATE: 06/13/89
ITEM NUMBER: T2GS DATE LAST CHANGED: 11/16/06
SECTION: 1052 TIME LAST CHANGED: 07:13:10

REQUESTER: JSC
TEST CODE: S51J04 STSALL
TRACKING NO. L312-1 L6202 L906-3 R0503-1 R2849
R6002

1. DESCRIPTION: SUPPORT RESPONSES FOR SMC DET 12 (CERES)

REQUIREMENTS INVOLVING SUPPORT FROM THE SMC DET 12 (CERES) WILL BE SUBMITTED THROUGH GSFC. THE AGENCY DESIGNATOR WILL BE GS. GSFC WILL COORDINATE SUPPORT RESPONSES AND COMMITMENTS IN THEIR ROLE AS LEAD CENTER FOR THE SMC DET 12 (CERES).

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/03/05
RESPONSE TRACKING: GSFCREV06 Z2842 Z6006 Z6202

SUPPLIER: SDTW AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/03/05
RESPONSE TRACKING: Z2842 Z6006 Z6202

CONTINUED

[PRD] DATABASE RECORD: 3965
ITEM NUMBER: T2GS

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1060 - KEY TECHNICAL PERSONNEL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 216112 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/31/94
INITIAL DATE: 05/12/89
ITEM NUMBER: K1 DATE LAST CHANGED: 01/29/07
SECTION: 1060 TIME LAST CHANGED: 10:49:37

REQUESTER: KSC
SUBREQUESTER: PH-B2
TEST CODE: STSALL
TRACKING NO. R2806 SCRUB06

1. NAME: ERIC BARCON
2. ORGANIZATION: PH-B2
3. TITLE/OFFICE: MISSION SUPPORT/L&L PRD DATA BASE MANAGER
4. BUSINESS ADDR: JOHN F. KENNEDY SPACE CENTER
NATIONAL AERONAUTICS & SPACE ADMINISTRATION
KENNEDY SPACE CENTER, FL 32899
5. TELEPHONE NO.: 321 867-3522
6. FACSIMILE: 321 867-1425

[PRD] DATABASE RECORD: 217788 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/27/95
INITIAL DATE: 10/09/89
ITEM NUMBER: K2 DATE LAST CHANGED: 01/29/07
SECTION: 1060 TIME LAST CHANGED: 10:48:09

REQUESTER: KSC
SUBREQUESTER: TA-E-A
TEST CODE: STSALL
TRACKING NO. L5506 SCRUB06 SHAW95

1. NAME: GEORGE D. PHILLIPS
2. ORGANIZATION: TA-E-A
3. TITLE/OFFICE: CHIEF, NASA/AF MANAGEMENT OFFICE
4. BUSINESS ADDR: JOHN F. KENNEDY SPACE CENTER
NATIONAL AERONAUTICS & SPACE ADMINISTRATION
KENNEDY SPACE CENTER, FL 32899
5. TELEPHONE NO.: 321 494-9167
6. FACSIMILE: 321 494-9166

[PRD] DATABASE RECORD: 222620 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/20/07
INITIAL DATE: 03/28/90
ITEM NUMBER: X4 DATE LAST CHANGED: 03/20/07

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1060 - KEY TECHNICAL PERSONNEL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 222620
ITEM NUMBER: X4

SECTION: 1060 TIME LAST CHANGED: 07:20:45

REQUESTER: DFRC
TEST CODE: STSALL
TRACKING NO. KING2001 L3125 L4332 R109-90

1. NAME: GEORGE GRIMSHAW (SRS MANAGER)
2. ORGANIZATION: DFRC/OS
3. TITLE/OFFICE: PROJECT MANAGER
4. BUSINESS ADDR: DFRC/OS
EDWARDS, CALIF. 93523
5. TELEPHONE NO.: 661 276-3425
6. FACSIMILE: 661 258-3410

[PRD] DATABASE RECORD: 225030 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/19/91
INITIAL DATE: 05/18/90
ITEM NUMBER: T6 DATE LAST CHANGED: 07/03/02
SECTION: 1060 TIME LAST CHANGED: 08:04:45

REQUESTER: JSC
TEST CODE: STSALL
TRACKING NO. L005-11 L3543 L4332 L906-3 R2849

1. NAME: JOSEPH AQUINO (L&L R/R MANAGER & FLIGHT DBM)
2. ORGANIZATION: DB, PID ZQ7339
3. TITLE/OFFICE: MISSION OPERATIONS DIRECTORATE
4. BUSINESS ADDR: NASA LYNDON B. JOHNSON SPACE CENTER 77058
5. TELEPHONE NO.: 281 483-4033
6. FACSIMILE: 281 483-5880

[PRD] DATABASE RECORD: 225858 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/01/95
INITIAL DATE: 07/19/89
ITEM NUMBER: D7 DATE LAST CHANGED: 07/11/06
SECTION: 1060 TIME LAST CHANGED: 06:47:06

REQUESTER: HSFS
TEST CODE: STSALL
TRACKING NO. L4503 L7007 R3408 R3424

1. NAME: MR. SIMON E. "ED" LEVKA

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1060 - KEY TECHNICAL PERSONNEL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 225858
ITEM NUMBER: D7

2. ORGANIZATION: DDMS-X
3. TITLE/OFFICE: PLANS AND PROGRAMS DIVISION (DDMS-X)
4. BUSINESS ADDR: 1201 EDWARD H. WHITE II ST., MS7101,
PATRICK AFB, FL 32925-3239
5. TELEPHONE NO.: 321 494-2143

6. FACSIMILE: 321 494-2310

[PRD] DATABASE RECORD: 229924 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/07/97
INITIAL DATE: 07/19/89
ITEM NUMBER: E9 DATE LAST CHANGED: 09/23/05
SECTION: 1060 TIME LAST CHANGED: 06:45:20

REQUESTER: ER
TEST CODE: 26002A 26002B 26002C 26002D
MSBLS S51C12 STSALL

ASSOCIATED DOC: 26002
TRACKING NO. L3940 L4332 L8210 R2880 R3408

1. NAME: COMMANDER, OPERATIONS SUPPORT FLIGHT
2. ORGANIZATION: 45 RANS/DOU
3. TITLE/OFFICE: N/A
4. BUSINESS ADDR: PATRICK AFB, FL. 32925
5. TELEPHONE NO.: 321 853-8650

MIKE GAWEL
RTS CONTRACTOR (CSR) FTS 321 853-8118
6. FACSIMILE: COMMERCIAL 321 853-8303
DSN 467-8303

[PRD] DATABASE RECORD: 232500 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/16/89
INITIAL DATE: 06/16/89
ITEM NUMBER: E10 DATE LAST CHANGED: 07/03/02
SECTION: 1060 TIME LAST CHANGED: 08:04:46

REQUESTER: ER
TEST CODE: STSALL
TRACKING NO. R2880

CONTINUED

[PRD] DATABASE RECORD: 232500
ITEM NUMBER: E10

1. NAME: MAJ. JOHN BRIDGE
2. ORGANIZATION: 45 SW/SES
3. TITLE/OFFICE: SYSTEMS SAFETY
4. BUSINESS ADDR: PATRICK AFB, FL 32925
5. TELEPHONE NO.: 321 494-4340
6. FACSIMILE:

[PRD] DATABASE RECORD: 233683 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/04/01
INITIAL DATE: 02/12/90
ITEM NUMBER: H11 DATE LAST CHANGED: 12/01/05
SECTION: 1060 TIME LAST CHANGED: 07:38:33

REQUESTER: MSFC
TEST CODE: STSALL
TRACKING NO. KING2001 ML002-90 R109-1 R3101

1. NAME: PHILIP CAUTHEN (SRS MANAGER)
2. ORGANIZATION: EO60
3. TITLE/OFFICE: FLIGHT PROJECTS DIRECTORATE
4. BUSINESS ADDR: MARSHALL SPACE FLIGHT CENTER
ALABAMA 35812
5. TELEPHONE NO.: 256 544-4204
6. FACSIMILE: 256 544-2107

[PRD] DATABASE RECORD: 561498 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/06/01
INITIAL DATE: 12/06/01
ITEM NUMBER: H11.1 DATE LAST CHANGED: 01/29/07
SECTION: 1060 TIME LAST CHANGED: 10:50:17

REQUESTER: MSFC
TEST CODE: STSALL
TRACKING NO. KING2001 R109-1

1. NAME: SCOTT SCHUTZENHOFER (STS TECHNICAL LEAD)
2. ORGANIZATION: MP71
3. TITLE/OFFICE: SHUTTLE INTEGRATION OFFICE
4. BUSINESS ADDR: MARSHALL SPACE FLIGHT CENTER, ALABAMA 35812
5. TELEPHONE NO.: 256 544-8496

CONTINUED

[PRD] DATABASE RECORD: 561498
ITEM NUMBER: H11.1

6. FACSIMILE: 256-544-5799

[PRD] DATABASE RECORD: 236014 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/18/03
INITIAL DATE: 06/13/89
ITEM NUMBER: G12 DATE LAST CHANGED: 07/18/03
SECTION: 1060 TIME LAST CHANGED: 12:18:31

REQUESTER: GSFC
TEST CODE: S51E01 STSALL
TRACKING NO. L7507 R2850 SCRUB06

1. NAME: J. A. BANGERTER (R/R MANAGER)
2. ORGANIZATION: 451.0
3. TITLE/OFFICE: MISSION COMMITMENT MANAGER, CUSTOMER COMMITMENT OFFICE, MISSION OPERATIONS AND DATA SYSTEM DIRECTORATE
4. BUSINESS ADDR: GSFC
GREENBELT, MD. 20771-0001
5. TELEPHONE NO.: (FTS) 301 286-7306
6. FACSIMILE: (FTS) 301 286-0275

[PRD] DATABASE RECORD: 239445 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/04/93
INITIAL DATE: 06/13/89
ITEM NUMBER: G14 DATE LAST CHANGED: 11/29/06
SECTION: 1060 TIME LAST CHANGED: 08:43:24

REQUESTER: GSFC
SUBREQUESTER: MIL
TEST CODE: STSALL
TRACKING NO. R2850 R5809 SCRUB06

1. NAME: GARY MORSE
2. ORGANIZATION: STDN/MIL
3. TITLE/OFFICE: STATION DIRECTOR
4. BUSINESS ADDR: MILA STDN TRACKING STATION
MAIL CODE: MILA
JOHN F. KENNEDY SPACE CENTER FLA. 32899
5. TELEPHONE NO.: 321 867-3514
6. FACSIMILE: 321 867-4416

CONTINUED

[PRD] DATABASE RECORD: 239445
ITEM NUMBER: G14

[PRD] DATABASE RECORD: 241452 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/27/95
INITIAL DATE: 10/09/89
ITEM NUMBER: K16 DATE LAST CHANGED: 06/06/07
SECTION: 1060 TIME LAST CHANGED: 09:28:30

REQUESTER: KSC
SUBREQUESTER: TA-E
TEST CODE: STSALL
TRACKING NO. SHAW95

1. NAME: WILLIAM HAASE
2. ORGANIZATION: FF-R
3. TITLE/OFFICE: NETWORK MANAGER
NASA- AF MGMT OFFICE/EX-NAM
4. BUSINESS ADDR: JOHN F. KENNEDY SPACE CENTER
NASA, KENNEDY SPACE CENTER, FL 32899
5. TELEPHONE NO.: 321 494-9163
6. FACSIMILE: 321 494-9166

[PRD] DATABASE RECORD: 243693 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/20/92
INITIAL DATE: 06/13/89
ITEM NUMBER: T17 DATE LAST CHANGED: 07/18/03
SECTION: 1060 TIME LAST CHANGED: 10:11:45

REQUESTER: JSC
TEST CODE: STSALL
TRACKING NO. L5506 L906-3 R2849

1. NAME: JSC/DV/JOE AQUINO
2. ORGANIZATION: JSC/DB
3. TITLE/OFFICE: SHUTTLE PROGRAM OFFICE
4. BUSINESS ADDR: NASA, LYNDON B. JOHNSON SPACE CENTER
5. TELEPHONE NO.: 281 483-4033
6. FACSIMILE: 281 483-5880

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1060 - KEY TECHNICAL PERSONNEL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 245899 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/19/89
INITIAL DATE: 07/19/89
ITEM NUMBER: Z19 DATE LAST CHANGED: 02/07/07
SECTION: 1060 TIME LAST CHANGED: 08:30:19

REQUESTER: WSTF
TEST CODE: STSALL
TRACKING NO. R2847 R3408

1. NAME: BOB MITCHELL (SRS MANAGER)
2. ORGANIZATION: WSTF-RC
3. TITLE/OFFICE: AIRFIELD SUPPORT COORDINATION OFFICE
PROPULSION TEST OFFICE
4. BUSINESS ADDR: WHITE SANDS TEST FACILITY
NATIONAL AERONAUTICS & SPACE ADMINISTRATION
DRAWER MM
LAS CRUCES, NM 88004
5. TELEPHONE NO.: 505 524-5774

6. FACSIMILE: A. WSTF ADMIN BLDG 100-(505) 524-5798
CONFIRMATION NUMBER IS 524-5770.
B. WSSH OPS CONTROL CENTER (505) 524-5508
CONFIRMATION NUMBER IS 5505. ("UP-RANGE")

[PRD] DATABASE RECORD: 247175 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/04/89
INITIAL DATE: 12/04/89
ITEM NUMBER: Y20 DATE LAST CHANGED: 07/03/02
SECTION: 1060 TIME LAST CHANGED: 08:04:48

REQUESTER: NASA HQ
TEST CODE: STSALL
TRACKING NO. L2814 L3208

1. NAME: CHUCK PERRY (SRS MANAGER)
2. ORGANIZATION: ME
3. TITLE/OFFICE: SPACE SHUTTLE HEADQUARTERS SUPPORT OFFICE
4. BUSINESS ADDR: NATIONAL AERONAUTICS & SPACE ADMINISTRATION
FLIGHT AND TURNAROUND OPERATIONS
300 E STREET SW
WASHINGTON, D.C. 20546
5. TELEPHONE NO.: 202 358-4449
6. FACSIMILE: 202 358-2818

CONTINUED

[PRD] DATABASE RECORD: 247175
ITEM NUMBER: Y20

[PRD] DATABASE RECORD: 4773 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/14/06
INITIAL DATE: 10/09/89
ITEM NUMBER: K21 DATE LAST CHANGED: 07/14/06
SECTION: 1060 TIME LAST CHANGED: 07:23:02

REQUESTER: KSC
SUBREQUESTER: PH-B
TEST CODE: 26002A 26002B 26002C 26002D
MSBLS STSALL

ASSOCIATED DOC: 26002

1. NAME: RICH NELSON
2. ORGANIZATION: KT-C
3. TITLE/OFFICE: CHIEF, ADVANCED SYSTEMS DIVISION
4. BUSINESS ADDR: JOHN F KENNEDY SPACE CENTER
NATIONAL AERONAUTICS & SPACE ADMINSTRATION
KENNEDY SPACE CENTER, FL 32899
5. TELEPHONE NO.: 321 867-3332
6. FACSIMILE: 321 867-6500

[PRD] DATABASE RECORD: 370429 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/12/06
INITIAL DATE: 10/09/89
ITEM NUMBER: K22 DATE LAST CHANGED: 01/25/07
SECTION: 1060 TIME LAST CHANGED: 09:52:55

REQUESTER: KSC
SUBREQUESTER: KSC/IT-D
TEST CODE: 26002A 26002B 26002C 26002D
MSBLS STSALL

ASSOCIATED DOC: 26002
TRACKING NO. SCRUB06

1. NAME: C. E. BARTLEY
2. ORGANIZATION: IT-D
3. TITLE/OFFICE: TECHNICAL MANAGEMENT/INFORMATION SYSTEM DIVISION
4. BUSINESS ADDR: JOHN F. KENNEDY SPACE CENTER

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1060 - KEY TECHNICAL PERSONNEL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 370429
ITEM NUMBER: K22

NATIONAL AERONAUTICS & SPACE AMINISTRATION
KENNEDY SPACE CENTER,FL. 32899
5. TELEPHONE NO.: 321 867-5900
6. FACSIMILE: 321 867-8039

[PRD] DATABASE RECORD: 371219 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/03/88
INITIAL DATE: 03/03/88
ITEM NUMBER: K23 DATE LAST CHANGED: 12/01/06
SECTION: 1060 TIME LAST CHANGED: 13:33:22

REQUESTER: KSC
SUBREQUESTER: NE-E
TEST CODE: 26002A 26002B 26002C 26002D
MSBLS STSALL

ASSOCIATED DOC: 26002

1. NAME: JOHN KIRIAZES
2. ORGANIZATION: NE-E1
3. TITLE/OFFICE: NAVIGATION AIDS ENGINEERING
4. BUSINESS ADDR: JOHN F. KENNEDY SPACE CENTER
NATIONAL AERONAUTICS & SPACE ADMINISTRATION
KENNNEDY SPACE CENTER,FL. 32899
5. TELEPHONE NO.: 321 861-3700
6. FACSIMILE: 321 861-0042

[PRD] DATABASE RECORD: 371855 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/14/06
INITIAL DATE: 11/29/88
ITEM NUMBER: K24 DATE LAST CHANGED: 11/29/06
SECTION: 1060 TIME LAST CHANGED: 08:40:20

REQUESTER: KSC
SUBREQUESTER: USK-654
TEST CODE: 26002A 26002B 26002C 26002D
MSBLS STSALL

ASSOCIATED DOC: 26002
TRACKING NO. R2902

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1060 - KEY TECHNICAL PERSONNEL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 371855
ITEM NUMBER: K24

1. NAME: CLAUDE (DOUGLAS) D. OVERFELT
2. ORGANIZATION: USK-668
3. TITLE/OFFICE: MANAGER 1, SDC/RPS OPERATIONS 1ST SHIFT
4. BUSINESS ADDR: JOHN F. KENNEDY SPACE CENTER
NATIONAL AERONAUTICS & SPACE CENTER
KENNEDY SPACE CENTER,FL. 32899
5. TELEPHONE NO.: (FTS) 321 861-1338
6. FACSIMILE: (FTS) 321 861-6636

[PRD] DATABASE RECORD: 7923 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/09/89
INITIAL DATE: 10/09/89
ITEM NUMBER: K25 DATE LAST CHANGED: 08/09/06
SECTION: 1060 TIME LAST CHANGED: 12:15:07

REQUESTER: KSC
SUBREQUESTER: USK-116
TEST CODE: 26002A 26002B 26002C 26002D
MSBLS STSALL

ASSOCIATED DOC: 26002

1. NAME: JOE REEVES
2. ORGANIZATION: USK-116
3. TITLE/OFFICE: USA MSBLS SUPERVISOR
4. BUSINESS ADDR: JOHN F. KENNEDY SPACE CENTER
NATIONAL AERONAUTICS & SPACE ADMINISTRATION
KENNEDY SPACE CENTER, FL. 32899

5. TELEPHONE NO.: 321 861-0541
6. FACSIMILE: 321 867-2197

[PRD] DATABASE RECORD: 7926 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/09/89
INITIAL DATE: 10/09/89
ITEM NUMBER: K29 DATE LAST CHANGED: 11/15/02
SECTION: 1060 TIME LAST CHANGED: 13:37:38

REQUESTER: KSC
SUBREQUESTER: USK-116
TEST CODE: 26002A 26002B 26002C 26002D

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1060 - KEY TECHNICAL PERSONNEL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 7926
ITEM NUMBER: K29

MSBLS STSALL

ASSOCIATED DOC: 26002

1. NAME: JOSE SEGURA-DOLADER
2. ORGANIZATION: USK-116
3. TITLE/OFFICE: USA MSBLS LEAD ENGINEER
4. BUSINESS ADDR: JOHN F. KENNEDY SPACE CENTER
NATIONAL AERONAUTICS & SPACE ADMINISTRATION
KENNEDY SPACE CENTER, FL. 32899
5. TELEPHONE NO.: 321 861-2049
6. FACSIMILE: 321 867-2197

[PRD] DATABASE RECORD: 13089 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/09/89
INITIAL DATE: 10/09/89
ITEM NUMBER: T30 DATE LAST CHANGED: 10/18/04
SECTION: 1060 TIME LAST CHANGED: 07:02:07

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: STSALL
TRACKING NO. L02-1-1 L04-10-4 L812-1

1. NAME: M. CHANDLER
2. ORGANIZATION: JSC/WYLE
3. TITLE/OFFICE: JSC MEDICAL OPS.
4. BUSINESS ADDR: NASA LYNDON B. JOHNSON SPACE CENTER , 77058
5. TELEPHONE NO.: 281 483-2956
6. FACSIMILE: 281 212-1414

[PRD] DATABASE RECORD: 23553 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/03/94
INITIAL DATE: 09/25/90
ITEM NUMBER: D31 DATE LAST CHANGED: 07/11/06
SECTION: 1060 TIME LAST CHANGED: 06:45:45

REQUESTER: HSFS
SUBREQUESTER: SOC
TEST CODE: STSALL
TRACKING NO. R6566

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1060 - KEY TECHNICAL PERSONNEL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 23553
ITEM NUMBER: D31

1. NAME: SOC DIRECTOR (DDMS)
2. ORGANIZATION: DDMS-O
3. TITLE/OFFICE: THE SOC DIRECTOR IS RESPONSIBLE FOR DDMS OPERATIONS IN THE SUPPORT OPERATIONS CENTER (SOC).

4. BUSINESS ADDR:
5. TELEPHONE NO.:
6. FACSIMILE:

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1070 - TECHNICAL REFERENCES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 211513 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/28/91
INITIAL DATE: 10/09/89
ITEM NUMBER: K1 DATE LAST CHANGED: 07/03/02
SECTION: 1070 TIME LAST CHANGED: 08:04:43

REQUESTER: KSC
SUBREQUESTER: PH-B
TEST CODE: STSALL

1. REFERENCE:
A. ITEM:
B. SECTION:
2. TITLE: UNIVERSAL DOCUMENTATION SYSTEM
DOCUMENT 501-89 (CURRENT REVISION)
VOLUMES 1, 2 AND 3; SUPPLEMENTS 1 AND 2
3. PUBLISHER/DATE: RANGE DOCUMENTATION GROUP
RANGE COMMANDERS COUNCIL
4. SOURCE: SECTRETARIAL
RANGE COMMANDERS COUNCIL
ATTN: STEWS - SA - R
WHITE SANDS MISSILE RANGE
NEW MEXICO 88002
5. SEC CL: U

[PRD] DATABASE RECORD: 226444 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/28/91
INITIAL DATE: 01/28/91
ITEM NUMBER: T3 DATE LAST CHANGED: 06/20/06
SECTION: 1070 TIME LAST CHANGED: 07:07:49

REQUESTER: JSC
TEST CODE: STSALL
TRACKING NO. L06-6-2

1. REFERENCE:
A. ITEM:
B. SECTION:
2. TITLE: FLIGHT CREW HEALTH STABILIZATION
PROGRAM, JSC-22538, REV. C
3. PUBLISHER/DATE: JOHNSON SPACE CENTER
SPACE & LIFE SCIENCES DIRECTORATE
HOUSTON, TEXAS
4. SOURCE: JOHNSON SPACE CENTER
SD2

CONTINUED

[PRD] DATABASE RECORD: 226444
ITEM NUMBER: T3

HOUSTON, TEXAS 77058
5. SEC CL: U

[PRD] DATABASE RECORD: 231468 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/09/97
INITIAL DATE: 06/30/89
ITEM NUMBER: T4K DATE LAST CHANGED: 06/20/06
SECTION: 1070 TIME LAST CHANGED: 07:10:38

REQUESTER: JSC
TEST CODE: INFO STSALL
TRACKING NO. L06-6-2 L8108 L906-8 R2886

1. REFERENCE:
A. ITEM: T4K
B. SECTION: 5312A
2. TITLE: MEDICAL OPERATIONS REQUIREMENTS
DOCUMENT
JSC-13956, REV. I
3. PUBLISHER/DATE: JOHNSON SPACE CENTER
SPACE & LIFE SCIENCES DIRECTORATE
HOUSTON, TEXAS 77058
4. SOURCE: JOHNSON SPACE CENTER
SD2
HOUSTON, TEXAS 77058
5. SEC CL: U

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: TA-C

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z8134

[PRD] DATABASE RECORD: 235026 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/09/97
INITIAL DATE: 06/30/89
ITEM NUMBER: T5K DATE LAST CHANGED: 06/20/06
SECTION: 1070 TIME LAST CHANGED: 07:14:10

REQUESTER: JSC

CONTINUED

[PRD] DATABASE RECORD: 235026
ITEM NUMBER: T5K

TEST CODE: INFO STSALL
TRACKING NO. L8108 L906-8 R2886

1. REFERENCE:
A. ITEM:
B. SECTION:
2. TITLE: MEDICAL OPERATIONS IMPLEMENTATION PLAN - JSC NO. 14372, REV. B
3. PUBLISHER/DATE: JOHNSON SPACE CENTER SPACE & LIFE SCIENCES DIRECTORATE HOUSTON, TEXAS 77058
4. SOURCE: JOHNSON SPACE CENTER SD2 HOUSTON, TEXAS 77058
5. SEC CL: U

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: JJ-3

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z8134

[PRD] DATABASE RECORD: 239866 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/09/97
INITIAL DATE: 06/30/89
ITEM NUMBER: T6EK DATE LAST CHANGED: 06/20/06
SECTION: 1070 TIME LAST CHANGED: 07:13:06

REQUESTER: JSC
TEST CODE: INFO STSALL
TRACKING NO. L06-6-2 L8108 L906-8 R2886

1. REFERENCE:
A. ITEM: T1
B. SECTION: 5312A
2. TITLE: MEDICAL OPERATIONS SUPPORT IMPLEMENTATION PLAN - WHITE SANDS SPACE HARBOR REV. I
3. PUBLISHER/DATE: JOHNSON SPACE CENTER

CONTINUED

[PRD] DATABASE RECORD: 239866
ITEM NUMBER: T6EK

SPACE LIFE SCIENCES DIRECTORATE
HOUSTON, TEXAS 77058
4. SOURCE: JOHNSON SPACE CENTER
SD2
HOUSTON, TEXAS 77058
5. SEC CL: U

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: WSMR

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/16/97
RESPONSE TRACKING: Z8206

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: TA-C

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z8134

[PRD] DATABASE RECORD: 241958 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/28/91
INITIAL DATE: 01/28/91
ITEM NUMBER: X7 DATE LAST CHANGED: 03/20/07
SECTION: 1070 TIME LAST CHANGED: 07:21:29

REQUESTER: DFRC
SUBREQUESTER: DQHH
TEST CODE: STSALL
TRACKING NO. KING2001

1. REFERENCE:
A. ITEM: T1
B. SECTION: 5312A

2. TITLE: MEDICAL OPERATIONS SUPPORT
IMPLEMENTATION PLAN, REV. E, JSC-18288
DFRC/EAFB
3. PUBLISHER/DATE: DRYDEN FLIGHT RESEARCH FACILITY
SHUTTLE PROJECT OFFICE

CONTINUED

[PRD] DATABASE RECORD: 241958
ITEM NUMBER: X7

4. SOURCE: SHUTTLE PROJECT OFFICE
SO
EDWARDS, CA. 93523
5. SEC CL: U

[PRD] DATABASE RECORD: 246204 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/09/89
INITIAL DATE: 10/09/89
ITEM NUMBER: K8 DATE LAST CHANGED: 08/26/03
SECTION: 1070 TIME LAST CHANGED: 08:52:24

REQUESTER: KSC
SUBREQUESTER: JJ-3
TEST CODE: STSALL

1. REFERENCE:
A. ITEM: T1
B. SECTION: 5312A
2. TITLE: MEDICAL OPERATIONS SUPPORT
IMPLEMENTATION PLAN
KSC - KBM-PL-1.1, REV C, SEPT. 1, 1999
3. PUBLISHER/DATE: KENNEDY SPACE CENTER
BIOMEDICAL OFFICE/1 SEPT 1999
4. SOURCE: KENNEDY SPACE CENTER
BIOMEDICAL OFFICE
KENNEDY SPACE CENTER
FLORIDA 32899
5. SEC CL: UNCLASS

[PRD] DATABASE RECORD: 248445 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/20/91
INITIAL DATE: 01/28/91
ITEM NUMBER: T9 DATE LAST CHANGED: 07/24/03
SECTION: 1070 TIME LAST CHANGED: 08:45:16

REQUESTER: JSC
SUBREQUESTER: JSC/DV14
TEST CODE: STSALL
TRACKING NO. L3723

CONTINUED

[PRD] DATABASE RECORD: 248445
ITEM NUMBER: T9

1. REFERENCE:
A. ITEM:
B. SECTION:
2. TITLE: TV PLAN - 1986 NSTS PROGRAM (1 DEC 85)
SPACE SHUTTLE PROGRAM TELEVISION PLAN
JSC NO. 20914 NSTS 08240
3. PUBLISHER/DATE: JOHNSON SPACE CENTER
SHUTTLE PROGRAM OFFICE
4. SOURCE: JOHNSON SPACE CENTER
GA MT
HOUSTON, TEXAS 77058
5. SEC CL:

[PRD] DATABASE RECORD: 525496 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/31/94
INITIAL DATE: 01/31/94
ITEM NUMBER: K10 DATE LAST CHANGED: 08/26/03
SECTION: 1070 TIME LAST CHANGED: 09:01:24

REQUESTER: KSC
SUBREQUESTER: PH-B
TEST CODE: STSALL
TRACKING NO. A6002

1. REFERENCE:
A. ITEM:
B. SECTION:
2. TITLE: ASRS HANDBOOK, GP60-3
3. PUBLISHER/DATE: PH-B/CURRENT REVISION
KENNEDY SPACE CENTER
FLORIDA 32899
4. SOURCE:
5. SEC CL:

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1100 - PROGRAM DESCRIPTION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD:	341857	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	LLS	APPROVAL DATE:	01/31/94
		INITIAL DATE:	10/09/89
ITEM NUMBER:	K1	DATE LAST CHANGED:	07/03/02
SECTION:	1100	TIME LAST CHANGED:	12:39:17
REQUESTER:	KSC		
SUBREQUESTER:	PH-B		
TEST CODE:	STSALL		

1. DESCRIPTION: THE SPACE SHUTTLE IS DEFINED AS AN INTEGRATED VEHICLE COMPOSED OF AN ORBITER, TWO SOLID ROCKET BOOSTERS AND AN EXTERNAL TANK; ADDITIONAL ELEMENTS INCLUDE THE SPACELAB AND THE INERTIAL UPPER STAGE; ALSO INCLUDED ARE THE RELATED PROGRAM GROUND SUPPORT SYSTEMS. WHEN REQUIRED, AN INERTIAL UPPER STATE OR SPACELAB WILL BE CARRIED IN THE PAYLOAD BAY OF THE ORBITER VEHICLE.

THE SPACE SHUTTLE WILL LAUNCH SCIENTIFIC, TECHNOLOGY AND APPLICATIONS TYPE PAYLOADS OF GOVERNMENT AND PRIVATE ORGANIZATIONS BOTH NATIONAL AND

FOREIGN. OPERATIONAL CAPABILITY WILL INCLUDE THE DELIVERY OF EARTH ORBIT PAYLOADS, DELIVERY OF DEEP SPACE VEHICLES WITH AN IUS, AND PAYLOAD

OPERATIONS WITHIN THE ORBITER PAYLOAD BAY AS A SPACELAB TYPE FLIGHT.

THE GROUND TURNAROUND FLOW BEGINS WITH THE ORBITER LANDING AND BEING TOWED INTO THE ORBITER PROCESSING FACILITY. THE ORBITER IS SAFED, THE DOWN CARGO REMOVED, THE ORBITER PAYLOAD BAY IS "RE-KITTED" FOR THE NEXT UP CARGO. IF THE CARGO IS TO BE INSTALLED IN THE OPF IN THE HORIZONTAL POSITION, THE CARGO IS THEN INSTALLED. AN INTERFACE TEST IS PERFORMED THAT CHECKS OUT THE ORBITER TO PAYLOAD INTERFACES AND THE PAYLOAD BAY DOORS ARE CLOSED. DURING THIS TIME, SRB's AND THE ET ARE BEING STACKED ON THE MOBILE LAUNCHER PLATFORM IN THE VAB. ONCE THE STACKING IS COMPLETE THE ORBITER IS TOWED TO THE VEHICLE ASSEMBLY BUILDING WHERE IT IS ATTACHED TO THE ET. THE ASSEMBLED VEHICLE IS THEN

TRANSPORTED TO THE LAUNCH PAD. ONCE THE VEHICLE IS MATED TO THE LAUNCH PAD, THE ROTATING SERVICE STRUCTURE IS ROTATED TO MATE WITH THE ORBITER

AND THE ORBITER SERVICING BEGINS. IF THE CARGO IS TO BE INSTALLED IN THE ORBITER ON THE PAD, THE PAYLOAD BAY DOORS ARE OPENED, THE CARGO IS INSTALLED IN THE PAYLOAD BAY & THE PAYLOAD BAY DOORS ARE CLOSED. DURING

THIS TIME PERIOD, THE TERMINAL COUNTDOWN DEMONSTRATION TEST (TCDT) IS

CONTINUED

[PRD] DATABASE RECORD: 341857
ITEM NUMBER: K1

PERFORMED WITH MCC PARTICIPATION. ONCE THIS IS COMPLETE THE ROTATING SERVICE STRUCTURE IS ROTATED TO THE PARK POSITION AND ET CRYO LOADING PERFORMED. AT COMPLETION OF ET CRYO LOADING, COUNTDOWN BEGINS WITH MCC

PARTICIPATION. COUNTDOWN ENDS IN LAUNCH & THE BEGINNING OF THE FLIGHT PHASE.

THE SHUTTLE HAS UNAUGMENTED DESIGN CAPABILITY TO DELIVER A 65,000 LB PAYLOAD INTO LOW EARTH ORBIT AT LOW INCLINATION ANGLES OR A LIGHT PAYLOAD (34,800 LB) INTO LOW EARTH ORBIT AT HIGH INCLINATION ANGLES FROM KSC. ANYTHING BEYOND THAT, REQUIRES AUGMENTATION BY AN ORBITAL MANEUVERING SYSTEM (OMS) PAYLOAD BAY KIT AND/OR PROPULSION STAGES ON THE DETACHED PAYLOADS.

INCLINATION ANGLES WILL BE BETWEEN 28.5 DEGREES AND 57 DEGREES, ALTITUDES ARE BETWEEN 100 AND 250 N/MI AND FLIGHT DURATIONS ARE BETWEEN TWO TO TEN DAYS ALTHOUGH LONGER MISSIONS CAN BE ACCOMPLISHED USING SPECIALLY PROVIDED KITS.

A TYPICAL FLIGHT PROFILE BEGINS WITH THE VERTICAL LAUNCHING FROM A KSC LAUNCH PAD. THE INITIAL THRUST IS PROVIDED BY THE SIMULTANEOUS OPERATIONS OF THE ORBITER'S MAIN ENGINES & THE TWO SOLID ROCKET BOOSTERS

IN CASE OF AN ON-BOARD PROBLEM AFTER T+2 MINS OF THE NOMINAL ASCENT PROFILE, THE ORBITER HAS THE CAPABILITY TO EITHER (A) ABORT AND RETURN TO KSC (RETURN-TO-LAUNCH SITE ABORT), (B) TRANSATLANTIC LANDING (TAL), (C) ABORT AND INSERT INTO ORBIT FOR A ONE REVOLUTION RETURN TO EARTH (ABORT-ONCE-AROUND), OR (D) ABORT TO ORBIT.

AT STAGING ALTITUDE; I.E., BETWEEN 135,000 AND 145,000 FEET AND A STAGING VELOCITY OF APPROXIMATELY 4,500 TO 5,000 FEET-PER SECOND, THE SRB'S SEPARATE FROM THE ORBITER AND LAND IN THE OCEAN SOME 150 MILES DOWNRANGE WHERE EACH WILL BE RETRIEVED, RETURNED TO KSC AND REFURBISHED FOR REUSE ON LATER SHUTTLE FLIGHTS.

THE ORBITER CONTINUES ITS FLIGHT UNDER MAIN ENGINE THRUST AND, PRIOR TO ACHIEVING ORBITAL FLIGHT, POWERS DOWN THE SSME'S, JETTISONS THE EXPENDABLE EXTERNAL PROPELLANT TANK INTO A REMOTE OCEAN AREA AND ACHIEVES FINAL INSERTION INTO EARTH ORBIT UTILIZING

CONTINUED

[PRD] DATABASE RECORD: 341857
ITEM NUMBER: K1

THE ORBITAL MANUEVERING SYSTEM.

AFTER COMPLETION OF ITS ASSIGNED FLIGHT, THE ORBITER REENTERS THE EARTH'S ATMOSPHERE AND MANUEVERS TO A PREDESIGNATED RUNWAY LANDING. THE ORBITER HAS THREE TYPES OF PLANNED RECOVERY (LANDING) SITES:

THE FIRST TYPE IS THE END OF MISSION SITE (EOM). THIS SITE HAS A FULL UP CONVOY, SHUTTLE LANDING AIDS, DEDICATED RESCUE FORCES AND OTHER SUPPORT AS CALLED FOR IN THE L&L PRD. KSC IS THE PRIMARY AND EAFB IS THE SECONDARY EOM SITE. WSSH IS A TERTIARY SITE AND CAN BE DESIGNATED PRIMARY IF NECESSARY.

THE SECOND TYPE RECOVERY SITE IS THE AUGMENTED LANDING SITE (ALS). ALS'S

WILL HAVE SHUTTLE LANDING AIDS, SHUTTLE-TRAINED CRASH/RESCUE FORCES, NASA REPRESENTATION, AND OTHER SUPPORT AS CALLED FOR IN THE L&L PRD.

THE THIRD TYPE RECOVERY SITE IS THE EMERGENCY LANDING SITE (ELS). THESE ARE SITES THAT OFFER A LANDING LOCATION ONLY. NASA HAS NO PREARRANGED SUPPORT AT THESE SITES. A SUBSET OF THE ELS'S ARE THE DOD ELS'S. THESE DOD BASES OFFER COMM AND LOGISTICAL SUPPORT THAT ARE NOT AVAILABLE AT OTHER ELS'S. THEY ALSO PROVIDE TRAINING AND STATUS BEFORE AND DURING EACH MISSION.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1130 - TEST DESCRIPTION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 201427 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/23/92
INITIAL DATE: 10/09/89
ITEM NUMBER: K1 DATE LAST CHANGED: 12/12/06
SECTION: 1130 TIME LAST CHANGED: 14:38:35

REQUESTER: KSC
SUBREQUESTER: NE-E1
TEST CODE: 26002A 26002B 26002C 26002D
MSBLS S0028.100 S0028.200 S0028.500
S61E03

ASSOCIATED DOC: 20028S 26002

1. DESCRIPTION: MICROWAVE SCANNING BEAM LANDING SYSTEM (MSBLS-GS)

THE MICROWAVE SCANNING BEAM LANDING SYSTEM-GROUND STATION (MSBLS-GS) IS AN AUTOMATIC LANDING SYSTEM THAT TRANSMITS PULSE-ENCODED DATA TO THE LANDING ORBITER.

THE PULSE-ENCODED DATA CARRIES PRECISE POSITIONING INFORMATION FOR THE ORBITER IN THE FORM OF AZIMUTH AND ELEVATION ANGLES AND SLANT RANGE (DISTANCE MEASURING EQUIPMENT, DME).

TWO MSBLS-GS SYSTEMS ARE INSTALLED AT THE SHUTTLE LANDING FACILITY.

THE MSBLS-GS REQUIRES FLIGHT TESTING PERIODICALLY TO VERIFY SYSTEM ACCURACY THROUGHOUT THE COVERAGE VOLUME AS WELL AS TO EVALUATE SYSTEM CONFIGURATION CHANGES AND ASCERTAIN TECHNICAL PERFORMANCE.

[PRD] DATABASE RECORD: 23336 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/20/91
INITIAL DATE: 03/20/91
ITEM NUMBER: K2D DATE LAST CHANGED: 05/30/07
SECTION: 1130 TIME LAST CHANGED: 10:33:09

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L SOC
TEST CODE: FERRY STSALL

ASSOCIATED DOC: 20007S 20019S 20026S 20027S
20028S
TRACKING NO. L3720

1. DESCRIPTION: DOD SOC SUPPORT

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1130 - TEST DESCRIPTION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 23336
ITEM NUMBER: K2D

PROVIDE DOD SUPPORT OPERATIONS CENTER (SOC) SUPPORT DURING SHUTTLE MISSIONS, SHUTTLE CARRIER AIRCRAFT FLIGHTS (AS NECESSARY), SIMULATIONS AND TRAINING EXERCISES. DDMS WILL GENERATE SECONDARY REQUIREMENTS AS NECESSARY FOR THE COMMUNICATIONS AND OTHER AS NEEDED FOR THE CONTROL OF AND COORDINATION WITH DOD FORCES PARTICIPATING IN CONTINGENCY SEARCH, RESCUE AND RECOVERY OPERATIONS (REF ER OD 20019).

TECHNICAL CONTACT: DENNY GAGEN/PH-L/321 861-9300
KEVIN OTOOLE/USK-426/321 861-3112

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/20/91
RESPONSE:

RESPONSE TRACKING: Z3719

[PRD] DATABASE RECORD: 520361 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/31/04
INITIAL DATE: 07/01/92
ITEM NUMBER: D3DEKT DATE LAST CHANGED: 05/31/07
SECTION: 1130 TIME LAST CHANGED: 08:37:29

REQUESTER: HSFS
SUBREQUESTER: DDMS/X
TEST CODE: INFO SPECIAL

ASSOCIATED DOC: MODE8
TRACKING NO. KING2001 L4601 L5415 L8108 R0403-4
R109-88 R6535
PRIORITY: REQUIRED
RATIONALE: REQUIRED TO PREPARE DoD FORCES FOR ASTRONAUT RESCUE AND RECOVERY

1. DESCRIPTION: HSFS MODE VIII EXERCISE/TECHNICAL CONTACT

EXERCISE AND EVALUATE THE DOD/USCG SEARCH & RESCUE (SAR) FORCES

CONTINUED

[PRD] DATABASE RECORD: 520361
ITEM NUMBER: D3DEKT

AND PROCEDURES THAT SUPPORT A SHUTTLE ASTRONAUT BAILOUT (MODE VIII) CONTINGENCY. THE EXERCISE IS DESIGNED TO TEST THE CAPABILITIES OF OPERATIONAL SAR FORCES IN LOCATING, RECOVERING, AND ASSISTING ASTRONAUTS IN A SHUTTLE LAUNCH PHASE OPEN OCEAN BAILOUT. THIS IS A DOD MANNED SPACE FLIGHT SUPPORT OFFICE (HSFS) DIRECTED EXERCISE.

THE EXERCISE SCENARIO BEGINS WITH A NOMINAL SHUTTLE LAUNCH FOLLOWED BY AN RTLS ATTEMPT THAT RESULTS IN AN ASTRONAUT BAILOUT. WHEN NASA DELCARES THE MODE VIII, DOD ASSETS RESPOND AS AUTHORIZED BY THE DOD (HSFS) SUPPORT OPERATIONS CENTER (SOC) AND IN COORDINATION WITH THE AIRBOSS (DOD ON-SCENE COMMANDER). THE AIRBOSS WILL USE AVAILABLE AIR AND SURFACE ASSETS AS REQUIRED BY THE CIRCUMSTANCES AT THE SAR SCENE TO RECOVER THE ASTRONAUTS. FOLLOWING RECOVERY, ON-SCENE MEDICAL PERSONNEL WILL PROVIDE EMERGENCY CARE WHILE THE AIRBOSS COORDINATES WITH THE SOC TO DETERMINE WHICH DESIGNATED DEFINITIVE MEDICAL CARE FACILITIES WILL BE USED TO RECEIVE THE ASTRONAUTS.

TECHNICAL CONTACT:

(D)HSFS	321 494-5116	DSN 854-5116
NAMO TA-E	321 494-6272	DSN 854-6272
MED ENG TA-C	321 867-6387	
NASA/PH-L	321 861-9300	
USA/CTVO	321 867-7810	
JBOSC SLF MGR	321 867-2100	
VITT	281 244-8779	
CREW SYSTEM	281 483-5887	

REFERENCE: LLS6000 ITEM D30T DBR 520259

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 03/31/04
RESPONSE TRACKING: Z0403-5 Z8134

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 03/31/04

CONTINUED

[PRD] DATABASE RECORD: 520361
ITEM NUMBER: D3DEKT

RESPONSE TRACKING: Z8134

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER:

I-TA	IT-D2	IT-D2-C
KICS-105	KICS-109	PH-B
PH-L	SGS-347	TA-F-A
USK-113	USK-705	YA-F4

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 03/31/04
RESPONSE TRACKING: Z8134

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
SUBSUPPLIER: JSC/CA4

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 03/31/04

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1405 - TEST VEHICLE INSTRUMENTATION FREQUENCY SUMMARY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 16140 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/09/97
INITIAL DATE: 04/23/91
ITEM NUMBER: K1DEGHKSTXYZ DATE LAST CHANGED: 05/30/07
SECTION: 1405 TIME LAST CHANGED: 10:33:05

REQUESTER: KSC
SUBREQUESTER: PH-B
TEST CODE: EAFB INFO STSALL
TRACKING NO. KING2001 L3960 L8108 R109-86 R2922

1. DESCRIPTION: FREQUENCY UTILIZATION SUMMARY

THIS SECTION IS USED TO PRESENT A CONSOLIDATED LIST OF ALL FREQUENCIES WHICH APPEAR IN THIS DOCUMENT. THE LIST SERVES AS A SUMMARY AND IS NOT TO BE CONSIDERED AS A REQUEST FOR FREQUENCY AUTHORIZATION. REQUESTS FOR SPECIFIC FREQUENCIES REQUIRING PROTECTION ALSO WILL BE DOCUMENTED IN SECTION 3430.

RESPONSES IN THIS SECTION, WHEN PROVIDED, ONLY MEAN THAT THE FREQUENCY (S) LISTED HAVE BEEN PREVIOUSLY AUTHORIZED THROUGH OTHER CHANNELS AND THAT THEY ARE CURRENT.

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z2919 Z8134

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB ER USAKA
WR WSMR
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 02/02/99
RESPONSE TRACKING: Z2919 Z8134 Z9313

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: GSFCREV06 Z2919 Z8134

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)

CONTINUED

[PRD] DATABASE RECORD: 16140
ITEM NUMBER: K1DEGHKSTXYZ

RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z2919 Z8134

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-C PH-B

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z2919 Z8134

SUPPLIER: SDTW AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z8134

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z2919 Z8134

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z2919 Z8134

SUPPLIER: NASA HQ AGENCY: NASA/HQ (NASA HEADQUARTERS (WASHINGTON))

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z2919 Z8134

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z2919 Z8134

CONTINUED

[PRD] DATABASE RECORD: 16140
ITEM NUMBER: K1DEGHKSTXYZ

[PRD] DATABASE RECORD: 16186 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/09/97
INITIAL DATE: 01/16/91
ITEM NUMBER: K1.1DEGHKTXYZ DATE LAST CHANGED: 05/30/07
SECTION: 1405 TIME LAST CHANGED: 10:33:05

REQUESTER: KSC
SUBREQUESTER: KSC/PH-B
TEST CODE: EAFB STSALL
TRACKING NO. COMREV05 GSFCREV06 KING2001 L2902 L4503
L7007 L8301 R109-86 R2922 R3924
R8703 SCRUB06

1. DESCRIPTION: FREQUENCY MANAGERS

CENTER	MAIL CODE	MANAGER	PHONE
EAFB	AFFTC/SDFC	JOHN KELLAS	805 277-2390
		DIANE MCGOVERN	805 277-2390
		JOE WATSON	805 277-2390
LERC	M/S54-2	HANK SCHUETT	216 433-5545
ER	45SW/SCXF	RICHARD AKERS	321 494-5838
DDMS	DDMS-O	JOHN W. SUMMERS	321 494-8581
DFRC	CODE: F	RICH ROOD	661 276-2138
KSC	IT-D2-D	STEVE SCHINDLER	321 867-2520
WSMR	DOD AREA FREQ COORD	STAN GREEN	505 678-3702
WSTF	CODE: RC	ROBERT MITCHELL	505 524-5774
JSC	CODE: TE	SHAYLA TAYLOR	281 483-0122
MSFC	CODE: AI11	TERRY LUTRELL	256 544-0130

CONTINUED

[PRD] DATABASE RECORD: 16186
ITEM NUMBER: K1.1DEGHKTXYZ

GSFC	CODE: 450.0	ROGER D.PORTER	301 286-5089
GSFC ALT.	CODE: 450.0	FRANK STOCKLIN	301 286-6339
WLP	CODE: 569	FELIPE ARROYO	757 824-1623
WLP ALT.	CODE: 569	LISSETTE MARTINEZ	757 824-1623
NASA HQ	SOMD	JIM HOLLANSWORTH	202 358-2830

NOTE: "WILCO" RESPONSE FOR THIS DBR MEANS THAT THE RESPECTIVE NAMES(S), MAIL CODES AND TELEPHONE NUMBERS ARE CORRECT.

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/15/97
RESPONSE TRACKING: Z2945 Z2947 Z3929 Z4518 Z6905
Z8314 Z8708

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB ER WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/09/97
RESPONSE TRACKING: Z2957 Z3929 Z4518 Z8314 Z8704

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/09/97
RESPONSE TRACKING: Z2961 Z3929 Z4518 Z8314 Z8704

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/15/97
RESPONSE TRACKING: Z2969 Z3929 Z4518 Z8314 Z8708

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)

CONTINUED

[PRD] DATABASE RECORD: 16186
ITEM NUMBER: K1.1DEGHKTXYZ

SUBSUPPLIER: IT-D2-D
RESPONDER: ELLEN HILL/321 861-2381

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/09/97
RESPONSE TRACKING: Z2969 Z3929 Z4518 Z8314 Z8704

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/09/97
RESPONSE TRACKING: Z2969 Z3929 Z4518 Z8314 Z8704

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: F
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/15/97
RESPONSE TRACKING: Z2936 Z2947 Z3929 Z4518 Z8314
Z8708

SUPPLIER: NASA HQ AGENCY: NASA/HQ (NASA HEADQUARTERS (WASHINGTON))

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/15/97
RESPONSE TRACKING: Z2969 Z3929 Z4518 Z8314 Z8708

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/14/97
RESPONSE TRACKING: Z2947 Z3929 Z4518 Z8314 Z8708

[PRD] DATABASE RECORD: 218888 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/06/88
INITIAL DATE: 09/06/88
ITEM NUMBER: K2 DATE LAST CHANGED: 07/03/02
SECTION: 1405 TIME LAST CHANGED: 13:20:51

REQUESTER: KSC
SUBREQUESTER: I-PZ-F USK-705
TEST CODE: RETREV STSALL

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1405 - TEST VEHICLE INSTRUMENTATION FREQUENCY SUMMARY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 218888
ITEM NUMBER: K2

ASSOCIATED DOC: 25407B
TRACKING NO. R2721

1. FREQUENCY;
A. TRANSMITTED: 2.622
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 3K00J3E, W100
3. PURPOSE: SRB RETRIEVAL OPERATIONS NET
4. GUARD BAND: NONE
5. TIME: T-20 HRS TO T+30 HRS
6. LOCATION: ER, SRB RETRIEVAL VESSELS
7. REMARKS: ER RF TRANSMIT/RECEIVE CAPABILITY.
SRB RETRIEVAL VESSELS WILL NORMALLY BE
STATIONED IN A SECTION BEARING 036 DEGREES
TO 090 DEGREES RANGE 148 NM OFF LC-39A. ONE
FREQUENCY AT A TIME (DEPENDING ON RF PROPAGATION)
WILL BE ASSIGNED ON A DAILY BASIS BY ER WHEN
THE NET IS SCHEDULED.

[PRD] DATABASE RECORD: 16320 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/06/88
INITIAL DATE: 09/06/88
ITEM NUMBER: K3 DATE LAST CHANGED: 07/08/02
SECTION: 1405 TIME LAST CHANGED: 15:57:56

REQUESTER: KSC
SUBREQUESTER: I-PZ-F USK-705
TEST CODE: RETREV STSALL

ASSOCIATED DOC: 25407B
TRACKING NO. R2721

1. FREQUENCY;
A. TRANSMITTED: 5.810
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 3K00J3E, W100
3. PURPOSE: SRB RETRIEVAL OPERATIONS NET

CONTINUED

[PRD] DATABASE RECORD: 16320
ITEM NUMBER: K3

4. GUARD BAND: NONE
5. TIME: T-20 HRS TO T+30 HRS
6. LOCATION: ER, SRB RETRIEVAL VESSELS
7. REMARKS: ER RF TRANSMIT/RECEIVE CAPABILITY.
SRB RETRIEVAL VESSELS WILL NORMALLY BE
STATIONED IN A SECTION BEARING 036 DEGREES TO
090 DEGREES RANGE 148 NM OFF LC-39A. ONE
FREQUENCY AT A TIME (DEPENDING ON RF PROPAGATION)
WILL BE ASSIGNED ON A DAILY BASIS BY ER WHEN
THE NET IS SCHEDULED.

[PRD] DATABASE RECORD: 16321 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/06/88
INITIAL DATE: 09/06/88
ITEM NUMBER: K4 DATE LAST CHANGED: 07/03/02
SECTION: 1405 TIME LAST CHANGED: 13:24:38

REQUESTER: KSC
SUBREQUESTER: I-PZ-F USK-705
TEST CODE: RETREV STSALL

ASSOCIATED DOC: 25407B
TRACKING NO. R2721

1. FREQUENCY;
A. TRANSMITTED: 7.765
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 3K00J3E, W100
3. PURPOSE: SRB RETRIEVAL OPERATIONS NET
4. GUARD BAND: NONE
5. TIME: T-20 HRS TO T+30 HRS
6. LOCATION: ER, SRB RETRIEVAL VESSELS
7. REMARKS: ER RF TRANSMIT/RECEIVE CAPABILITY.
SRB RETRIEVAL VESSELS WILL NORMALLY BE
STATIONED IN A SECTION BEARING 036 DEGREES
TO 090 DEGREES RANGE 148 NM OFF LC-39A. ONE
FREQUENCY AT A TIME (DEPENDING ON RF PROPAGATION)
WILL BE ASSIGNED ON A DAILY BASIS BY ER WHEN
THE NET IS SCHEDULED.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1405 - TEST VEHICLE INSTRUMENTATION FREQUENCY SUMMARY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 16321
ITEM NUMBER: K4

[PRD] DATABASE RECORD: 186727 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/08/89
INITIAL DATE: 06/08/89
ITEM NUMBER: K5 DATE LAST CHANGED: 07/03/02
SECTION: 1405 TIME LAST CHANGED: 13:25:33

REQUESTER: KSC
SUBREQUESTER: I-PZ-F USK-705
TEST CODE: RETREV STSALL
TRACKING NO. R2892

1. FREQUENCY;
A. TRANSMITTED: 10KHz
B. RECEIVE:
2. EMISSION
CHARACTERISTICS:
3. PURPOSE: SRB RECOVERY LOCATION AID
4. GUARD BAND: N/A
5. TIME:
6. LOCATION: FWD. SKIRTS
7. REMARKS:

[PRD] DATABASE RECORD: 16322 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/09/91
INITIAL DATE: 09/06/88
ITEM NUMBER: K6 DATE LAST CHANGED: 07/03/02
SECTION: 1405 TIME LAST CHANGED: 13:27:19

REQUESTER: KSC
SUBREQUESTER: I-PZ-F USK-705
TEST CODE: RETREV STSALL

ASSOCIATED DOC: 25407B
TRACKING NO. L3710 R2721

1. FREQUENCY;
A. TRANSMITTED: AS ASSIGNED
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 3K00J3E, W100

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1405 - TEST VEHICLE INSTRUMENTATION FREQUENCY SUMMARY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 16322
ITEM NUMBER: K6

3. PURPOSE: SRB RETRIEVAL OPERATIONS NET
4. GUARD BAND: NONE
5. TIME: T-20 HRS TO T+30 HRS
6. LOCATION: ER, SRB RETRIEVAL VESSELS
7. REMARKS: ER RF TRANSMIT/RECEIVE CAPABILITY.
SRB RETRIEVAL VESSELS WILL NORMALLY BE STATIONED
IN SECTION BEARING 036 DEGREES TO 090 DEGREES
RANGE 148 NM OFF LC-39A. ONE FREQUENCY AT A
TIME (DEPENDING ON RF PROPAGATION) WILL BE
ASSIGNED ON A DAILY BASIS BY ER WHEN THE
NET IS SCHEDULED.

[PRD] DATABASE RECORD: 214997 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/19/97
INITIAL DATE: 09/06/88
ITEM NUMBER: K11 DATE LAST CHANGED: 07/03/02
SECTION: 1405 TIME LAST CHANGED: 13:29:14

REQUESTER: KSC
SUBREQUESTER: I-FF-D4-A SGS-346 SGS-347
TEST CODE: KSC SLF STSALL

ASSOCIATED DOC: 20028S
TRACKING NO. L4707 L8207 L8307 L8311 R2632
R2721 R2809

1. FREQUENCY;
A. TRANSMITTED: 121.75
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 6K00A3E,W4
3. PURPOSE: SHUTTLE LANDING FACILITY GRND CONTROL
4. GUARD BAND:
5. TIME:
6. LOCATION: KSC/SLF
7. REMARKS:

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1405 - TEST VEHICLE INSTRUMENTATION FREQUENCY SUMMARY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 8697 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/22/88
INITIAL DATE: 03/22/88
ITEM NUMBER: X12 DATE LAST CHANGED: 03/20/07
SECTION: 1405 TIME LAST CHANGED: 07:24:02

REQUESTER: DFRC
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. KING2001 R109-86 R26100 R2632

1. FREQUENCY; 121.95 VHF AM
A. TRANSMITTED:
B. RECEIVE:
2. EMISSION CHARACTERISTICS: 6K00A3E
3. PURPOSE: PHOTO/TV HELO TO TV CONTROL ROOM (BACKUP).
DISCRETE CHANNEL FOR TV OPERATIONS.
4. GUARD BAND:
5. TIME:
6. LOCATION:
7. REMARKS:

[PRD] DATABASE RECORD: 213700 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/30/97
INITIAL DATE: 07/31/90
ITEM NUMBER: K13 DATE LAST CHANGED: 07/03/02
SECTION: 1405 TIME LAST CHANGED: 13:32:17

REQUESTER: KSC
SUBREQUESTER: I-FF-D4-A SGS-346 SGS-347
TEST CODE: KSC SLF STSALL

ASSOCIATED DOC: 20028S
TRACKING NO. L3834 L8207 R2632 R2721 R2809

1. FREQUENCY;
A. TRANSMITTED: 128.55
B. RECEIVE:
2. EMISSION CHARACTERISTICS: 6K00A3E, W10
3. PURPOSE: AIR TRAFFIC CONTROL, SLF
4. GUARD BAND:

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1405 - TEST VEHICLE INSTRUMENTATION FREQUENCY SUMMARY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 213700
ITEM NUMBER: K13

5. TIME:
6. LOCATION: KSC
7. REMARKS:

[PRD] DATABASE RECORD: 278662 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/31/90
INITIAL DATE: 07/31/90
ITEM NUMBER: K14 DATE LAST CHANGED: 07/03/02
SECTION: 1405 TIME LAST CHANGED: 13:34:09

REQUESTER: KSC
SUBREQUESTER: I-FF-D4-A SGS-346
TEST CODE: 26002A 26002B KSC MSBLS
SLF

ASSOCIATED DOC: 26002
TRACKING NO. L3834 R2632 R2721

1. FREQUENCY;
A. TRANSMITTED: 128.55
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 6K00A3E, W10
3. PURPOSE: NASA TOWER COMMUNICATIONS
FOR MSBLS CHECKOUT- SLF
4. GUARD BAND:
5. TIME:
6. LOCATION: KSC & CCAS
7. REMARKS: RFA ETR 85-006, 9007

[PRD] DATABASE RECORD: 16789 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/09/88
INITIAL DATE: 11/09/88
ITEM NUMBER: Z15 DATE LAST CHANGED: 12/18/06
SECTION: 1405 TIME LAST CHANGED: 09:37:47

REQUESTER: WSTF
SUBREQUESTER: WSTF/RC
TEST CODE: S0027.001 STS-27 STSALL WSSH

CONTINUED

[PRD] DATABASE RECORD: 16789
ITEM NUMBER: Z15

ASSOCIATED DOC: 20007S 20027S
TRACKING NO. L210-1 L2723

1. FREQUENCY;
A. TRANSMITTED: 126.5 MHz
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: K600A3E
3. PURPOSE: VOICE COMMUNICATION BETWEEN MCC WEATHER CAPCOM AND THE WEATHER AIRCRAFT.
4. GUARD BAND: N/A
5. TIME: 3 HOURS PRELAUNCH THROUGH AOA OPPORTUNITY AND 2 HOURS PRELANDING THROUGH LANDING.
6. LOCATION: WSSH
7. REMARKS: REFER TO 2730 T11ETZ 016686

[PRD] DATABASE RECORD: 209021 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/06/88
INITIAL DATE: 09/06/88
ITEM NUMBER: T16 DATE LAST CHANGED: 07/03/02
SECTION: 1405 TIME LAST CHANGED: 13:37:51

REQUESTER: JSC
TEST CODE: KSC STSALL
TRACKING NO. R2632 R2721

1. FREQUENCY;
A. TRANSMITTED: 126.65
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 6K00A3E, W10
3. PURPOSE: VOICE COMMUNICATIONS - MOBILE - WEATHER AIRCRAFT
4. GUARD BAND:
5. TIME:
6. LOCATION: KSC
7. REMARKS: RFA ER 86-034

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1405 - TEST VEHICLE INSTRUMENTATION FREQUENCY SUMMARY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 332242 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/06/88
INITIAL DATE: 09/06/88
ITEM NUMBER: K17 DATE LAST CHANGED: 07/03/02
SECTION: 1405 TIME LAST CHANGED: 13:39:08

REQUESTER: KSC
SUBREQUESTER: I-FF-D4-A SGS-346
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. R2632 R2721

1. FREQUENCY;
A. TRANSMITTED: 126.65
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 6K00A3E, W10
3. PURPOSE: VOICE COMM-MOBILE WX AIRCRAFT.
4. GUARD BAND:
5. TIME:
6. LOCATION: KSC
7. REMARKS:
RFA ER 86-034

[PRD] DATABASE RECORD: 234284 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/19/97
INITIAL DATE: 01/16/91
ITEM NUMBER: K18 DATE LAST CHANGED: 02/01/07
SECTION: 1405 TIME LAST CHANGED: 11:24:02

REQUESTER: KSC
SUBREQUESTER: IT-D2
TEST CODE: CCAFS KSC RTLS S0007.100
S0017.100 STSALL

ASSOCIATED DOC: 20007S 20014S 20017S 20028S
25214A
TRACKING NO. L8307 L8311 R26100 R2721 R2809
R3924

1. FREQUENCY;
A. TRANSMITTED: 128.15 PRIMARY 133.8 B/U
B. RECEIVE:

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1405 - TEST VEHICLE INSTRUMENTATION FREQUENCY SUMMARY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 234284
ITEM NUMBER: K18

2. EMISSION
CHARACTERISTICS: 6K00A3E, W10
3. PURPOSE: HELO OPERATIONS
4. GUARD BAND:
5. TIME: IF SCHEDULING IS REQUIRED, SCHEDULE PER KICS.
6. LOCATION: KSC/CCAS/SLF
7. REMARKS:

[PRD] DATABASE RECORD: 8696 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/06/88
INITIAL DATE: 05/01/86
ITEM NUMBER: X19 DATE LAST CHANGED: 03/20/07
SECTION: 1405 TIME LAST CHANGED: 07:24:42

REQUESTER: DFRC
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. KING2001 R109-86 R26100 R2632 R2721

1. FREQUENCY; 132.75 VHF AM
A. TRANSMITTED:
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 6K00A3E
3. PURPOSE: PHOTO/TV HELO TO TV CONTROL ROOM (PRIMARY).
DISCRETE CHANNEL FOR TV OPERATOR.
4. GUARD BAND:
5. TIME:
6. LOCATION:
7. REMARKS: REQUIRES LOCAL SCHEDULING ON NON-SHUTTLE DAYS.

[PRD] DATABASE RECORD: 317578 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/19/97
INITIAL DATE: 01/16/91
ITEM NUMBER: K20 DATE LAST CHANGED: 05/09/03
SECTION: 1405 TIME LAST CHANGED: 11:40:45

REQUESTER: KSC
SUBREQUESTER: IT-D2

CONTINUED

[PRD] DATABASE RECORD: 317578
ITEM NUMBER: K20

TEST CODE: L-1DAY RTLS S41G03 STSALL

ASSOCIATED DOC: 20007S 20028S
TRACKING NO. L8307 L8311 R26100 R2632 R2721
R2809 R3924

1. FREQUENCY; 133.8 MHz
A. TRANSMITTED:
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 6K00A3E, W10
3. PURPOSE: HELO B/U VHF
4. GUARD BAND:
5. TIME: IF SCHEDULING IS REQUIRED, SCHEDULE PER KICS.
6. LOCATION: PAFB/KSC/SLF
7. REMARKS:

[PRD] DATABASE RECORD: 338301 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/08/97
INITIAL DATE: 09/06/88
ITEM NUMBER: D21 DATE LAST CHANGED: 01/04/07
SECTION: 1405 TIME LAST CHANGED: 11:36:44

REQUESTER: HSFS
SUBREQUESTER: DDMS
TEST CODE: DFRC EAFB KSC S0026.200
S0026.300 S0027.001 S5022.200 SLF
STSALL WSSH

ASSOCIATED DOC: 20026S 20027S 20028S 25022S
TRACKING NO. L210-1 L4503 L8307 R2721 R2809
R8401

1. FREQUENCY;
A. TRANSMITTED: 138.45 MHZ
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 6K00A3E, W50
3. PURPOSE: DOD A/G (FOR SAR OPS) EAFB/WSSH

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1405 - TEST VEHICLE INSTRUMENTATION FREQUENCY SUMMARY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 338301
ITEM NUMBER: D21

ON SCENE COMMANDER CONTROL
4. GUARD BAND:
5. TIME: IF SCHEDULING IS REQUIRED, SCHEDULE PER KICS.
6. LOCATION: EAFB/KSC/SLF/WSSH
7. REMARKS:

[PRD] DATABASE RECORD: 251975 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/09/89
INITIAL DATE: 06/09/89
ITEM NUMBER: K25 DATE LAST CHANGED: 07/03/02
SECTION: 1405 TIME LAST CHANGED: 13:48:34

REQUESTER: KSC
SUBREQUESTER: I-PZ-L-A USK-705
TEST CODE: CCAFS STSALL
TRACKING NO. R2892

1. FREQUENCY;
A. TRANSMITTED: 154.570
B. RECEIVE: 154.570
2. EMISSION
CHARACTERISTICS:
3. PURPOSE: SHORE COMMUNICATIONS
4. GUARD BAND:
5. TIME:
6. LOCATION: SHORE
7. REMARKS: SHORE CHANNEL 2 FCC MARINE BAND
06/09/89 PER FREDLOCK/PH-K-B/321 867-2520
FREQUENCY NOT AUTHORIZED AT KSC.

[PRD] DATABASE RECORD: 251203 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/09/89
INITIAL DATE: 06/09/89
ITEM NUMBER: K26 DATE LAST CHANGED: 07/03/02
SECTION: 1405 TIME LAST CHANGED: 13:49:39

REQUESTER: KSC
SUBREQUESTER: I-PZ-F USK-705
TEST CODE: CCAFS STSALL
TRACKING NO. R2892

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1405 - TEST VEHICLE INSTRUMENTATION FREQUENCY SUMMARY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 251203
ITEM NUMBER: K26

1. FREQUENCY;
A. TRANSMITTED: 154.600
B. RECEIVE: 154.600
2. EMISSION
CHARACTERISTICS:
3. PURPOSE: SHORE COMMUNICATIONS
4. GUARD BAND:
5. TIME:
6. LOCATION: SHORE
7. REMARKS: SHORE CHANNEL 1 FCC MARINE BAND.
06/09/89 PER FREDLOCK, PH-J-B/321 867-2520
FREQUENCY NOT AUTHORIZED AT KSC.

[PRD] DATABASE RECORD: 247660 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/08/89
INITIAL DATE: 06/08/89
ITEM NUMBER: K28 DATE LAST CHANGED: 07/08/02
SECTION: 1405 TIME LAST CHANGED: 07:20:51

REQUESTER: KSC
SUBREQUESTER: I-PZ-F USK-705
TEST CODE: RETREV STSALL
TRACKING NO. R2892

1. FREQUENCY;
A. TRANSMITTED: 156.350
B. RECEIVE: 156.350
2. EMISSION
CHARACTERISTICS:
3. PURPOSE: BRIDGE TO BRIDGE COMM, RETRIEVAL/
SUPPORT VESSELS. SHIP TO SHORE FOR SRB TRANSFER
4. GUARD BAND:
5. TIME:
6. LOCATION: SHIP TO SHIP AND SHIP TO SHORE
7. REMARKS: CHANNEL 3 FCC MARINE BAND (UTC FREEDOM)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1405 - TEST VEHICLE INSTRUMENTATION FREQUENCY SUMMARY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 245849 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/06/88
INITIAL DATE: 09/06/88
ITEM NUMBER: K30 DATE LAST CHANGED: 05/09/03
SECTION: 1405 TIME LAST CHANGED: 11:40:43

REQUESTER: KSC
SUBREQUESTER: IT-D2
TEST CODE: STSALL
TRACKING NO. R2721

1. FREQUENCY;
A. TRANSMITTED: 156.800
B. RECEIVE: 156.800
2. EMISSION
CHARACTERISTICS: 16K00F3E, W50
3. PURPOSE: INTERNATIONAL DISTRESS AND COAST GUARD
4. GUARD BAND:
5. TIME:
6. LOCATION: CCAS
7. REMARKS: CHANNEL 1 FCC MARINE BAND

[PRD] DATABASE RECORD: 250405 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/08/89
INITIAL DATE: 06/08/89
ITEM NUMBER: K31 DATE LAST CHANGED: 10/18/05
SECTION: 1405 TIME LAST CHANGED: 09:29:09

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-705
TEST CODE: RETREV STSALL
TRACKING NO. R2892

1. FREQUENCY;
A. TRANSMITTED: 157.025
B. RECEIVE: 157.025
2. EMISSION
CHARACTERISTICS:
3. PURPOSE: BRIDGE TO HANGAR AF AND SUPPORT VESSELS.
4. GUARD BAND:
5. TIME:
6. LOCATION: SHIP TO SHORE
7. REMARKS: CHANNEL 5 FCC MARINE BAND

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1405 - TEST VEHICLE INSTRUMENTATION FREQUENCY SUMMARY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 199063 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/17/03
INITIAL DATE: 06/08/89
ITEM NUMBER: K32 DATE LAST CHANGED: 12/21/06
SECTION: 1405 TIME LAST CHANGED: 09:56:26

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-217
TEST CODE: DFRC EAFB S0026.100 S0026.200
S0026.300 S5022.200 STSALL WSSH

ASSOCIATED DOC: 20026S 20027S 25022S
TRACKING NO. L210-1 R2632 R2809 R2892

1. FREQUENCY;
A. TRANSMITTED: 408.0875
B. RECEIVE: 417.0875
2. EMISSION
CHARACTERISTICS: 16K00F3E
3. PURPOSE: PURGE NET
4. GUARD BAND:
5. TIME: USED SIMULTANEOUSLY DURING POST LANDING
OPERATIONS. USED FOR OTHER OPERATIONS
INCLUDING SCAPE AT OTHER TIMES.
6. LOCATION: DFRC/WSMR
7. REMARKS: AR 792111
ISSUE 27 RADIOS

TECHNICAL CONTACT: MIKE KUTA/USK-426/321 861-3980
DENNY GAGEN/PH-L/321 861 -9301

[PRD] DATABASE RECORD: 195744 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/17/03
INITIAL DATE: 06/08/89
ITEM NUMBER: K33 DATE LAST CHANGED: 12/21/06
SECTION: 1405 TIME LAST CHANGED: 09:59:08

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-217
TEST CODE: DFRC EAFB S0026.100 S0026.200
S0026.300 S0027.001 S5022.200 STSALL
WSSH

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1405 - TEST VEHICLE INSTRUMENTATION FREQUENCY SUMMARY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 195744
ITEM NUMBER: K33

ASSOCIATED DOC: 20026S 20027S 25022S
TRACKING NO. L210-1 R2809 R2892

1. FREQUENCY;
A. TRANSMITTED: 417.0875
B. RECEIVE: 408.0875
2. EMISSION
CHARACTERISTICS: 16KOOF3E
3. PURPOSE: CONVOY COMMANDER VHF NET
4. GUARD BAND:
5. TIME: USED SIMULTANEOUSLY DURING POST LANDING OPERATIONS. USED FOR OTHER OPERATIONS INCLUDING SCAPE AT OTHER TIMES.
6. LOCATION: DFRC/WSMR
7. REMARKS: DO NOT USE AT KSC AR 792112
ISSUE 5 RADIOS

TECHNICAL CONTACT: MIKE KUTA/USK-426/321 861-3980
DENNY GAGEN/PH-L/321 861-9301

[PRD] DATABASE RECORD: 242442 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/06/88
INITIAL DATE: 09/06/88
ITEM NUMBER: K34 DATE LAST CHANGED: 07/08/02
SECTION: 1405 TIME LAST CHANGED: 07:34:11

REQUESTER: KSC
SUBREQUESTER: BIO-3 I-JJ
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. L210-1 R2809 R2892

1. FREQUENCY;
A. TRANSMITTED: 165.0125
B. RECEIVE: 165.0125
2. EMISSION
CHARACTERISTICS: 16K00F3E, W8
3. PURPOSE: TO COMMUNICATE WITH PROJECT SITE (S-NET). OPERATIONS NET

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1405 - TEST VEHICLE INSTRUMENTATION FREQUENCY SUMMARY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 242442
ITEM NUMBER: K34

4. GUARD BAND:
5. TIME:
6. LOCATION: GROUND TO GROUND
7. REMARKS: RFA ER 82-011, TO BE CHECKED BY L-1 DAY.
CONTACT: LEE MAULL/DYN-3/ 321 853-7827

[PRD] DATABASE RECORD: 336358 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/19/97
INITIAL DATE: 01/29/91
ITEM NUMBER: K35 DATE LAST CHANGED: 01/23/07
SECTION: 1405 TIME LAST CHANGED: 07:55:18

REQUESTER: KSC
SUBREQUESTER: IT-D2-C TVPLAN
TEST CODE: BENGUE DFRC EAFB KSC
MORON MSBLS SLF STSALL
WSSH ZARAGOZA

ASSOCIATED DOC: 20026S 20027S 20028S
TRACKING NO. L07-1-2 L210-1 L3312 L8307 L8311
R0701-7 R2632 R2697 R2721 R2809
R3936 R7002

1. FREQUENCY;
A. TRANSMITTED: 165.6125
B. RECEIVE: 165.6125
2. EMISSION
CHARACTERISTICS: 16K00K3E, W60
3. PURPOSE: MSBLS COMMUNICATIONS
4. GUARD BAND:
5. TIME: IF SCHEDULING IS REQUIRED, SCHEDULE PER KICS.
6. LOCATION: KSC/DFRC/WSSH/BEN GUERIR/MORON/
ZARAGOZA
7. REMARKS: FOR MSBLS GROUND AND FLIGHT OPS

[PRD] DATABASE RECORD: 197513 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/17/03
INITIAL DATE: 06/08/89
ITEM NUMBER: K36 DATE LAST CHANGED: 12/21/06
SECTION: 1405 TIME LAST CHANGED: 09:57:54

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1405 - TEST VEHICLE INSTRUMENTATION FREQUENCY SUMMARY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 197513
ITEM NUMBER: K36

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-217
TEST CODE: DFRC EAFB S0026.100 S0026.200
S0026.300 S5022.200 STSALL WSSH

ASSOCIATED DOC: 20026S 20027S 25022S
TRACKING NO. L210-1 R2809 R2892

1. FREQUENCY;
A. TRANSMITTED: 411.5875
B. RECEIVE: 411.5875
2. EMISSION
CHARACTERISTICS: 16KOOF3E
3. PURPOSE: COOLING VHF NET
4. GUARD BAND:
5. TIME: USED SIMULTANEOUSLY DURING POST LANDING
OPERATIONS. USED FOR OTHER OPERATIONS
INCLUDING SCAPE AT OTHER TIMES.
6. LOCATION: DFRC/WSMR
7. REMARKS: DO NOT USE AT KSC AR 792113
ISSUE 10 RADIOS

TECHNICAL CONTACT: MIKE KUTA/USK-426/321 861-3980
DENNY GAGEN/PH-L/321 861-9301

[PRD] DATABASE RECORD: 187291 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/06/88
INITIAL DATE: 07/06/88
ITEM NUMBER: X37Z DATE LAST CHANGED: 03/20/07
SECTION: 1405 TIME LAST CHANGED: 07:26:11

REQUESTER: DFRC
TEST CODE: EAFB STSALL WSSH

ASSOCIATED DOC: 20026S 20027S
TRACKING NO. KING2001 R109-86 R26100 R26231 R2809

1. FREQUENCY;
A. TRANSMITTED: 169.0750

CONTINUED

[PRD] DATABASE RECORD: 187291
ITEM NUMBER: X37Z

B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 16K00F3E
3. PURPOSE: TV ENGINEERING RADIO LOOP
4. GUARD BAND:
5. TIME: POST-LANDING
6. LOCATION: DFRC AND WSSH
7. REMARKS: THIS LOOP SHALL BE DESIGNATED
"TV DIRECTOR'S LOOP" AT WHITE SANDS.

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/17/88
RESPONSE TRACKING: Z26146

[PRD] DATABASE RECORD: 186508 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/22/88
INITIAL DATE: 03/22/88
ITEM NUMBER: X38 DATE LAST CHANGED: 03/20/07
SECTION: 1405 TIME LAST CHANGED: 07:26:38

REQUESTER: DFRC
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. KING2001 R109-86 R26100 R2809

1. FREQUENCY;
A. TRANSMITTED: 169.400
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: F3/5W
3. PURPOSE: SOUND BROADCASTING - FIXED
4. GUARD BAND:
5. TIME: POST-LANDING
6. LOCATION: DFRC
7. REMARKS:

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1405 - TEST VEHICLE INSTRUMENTATION FREQUENCY SUMMARY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 248648 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/25/01
INITIAL DATE: 01/16/91
ITEM NUMBER: K40 DATE LAST CHANGED: 05/09/03
SECTION: 1405 TIME LAST CHANGED: 11:41:59

REQUESTER: KSC
SUBREQUESTER: IT-D2-B XA-E1
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20028S
TRACKING NO. R108-4 R26100 R2632 R2721 R3924

1. FREQUENCY;
A. TRANSMITTED: 171.2625
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 16K00F3E, W50
3. PURPOSE: PUBLIC AFFAIRS - TV COORD. NET 408
4. GUARD BAND:
5. TIME:
6. LOCATION: KSC
7. REMARKS:

[PRD] DATABASE RECORD: 14625 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/22/88
INITIAL DATE: 03/22/88
ITEM NUMBER: X40.1 DATE LAST CHANGED: 03/20/07
SECTION: 1405 TIME LAST CHANGED: 07:27:06

REQUESTER: DFRC
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. KING2001 R109-86 R26100 R2809

1. FREQUENCY;
A. TRANSMITTED: 171.2625
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 16K00F3E
3. PURPOSE: TV SIMPLEX RADIO LOOP
4. GUARD BAND:
5. TIME: POST LANDING

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1405 - TEST VEHICLE INSTRUMENTATION FREQUENCY SUMMARY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 14625
ITEM NUMBER: X40.1

6. LOCATION: DFRC
7. REMARKS:

[PRD] DATABASE RECORD: 284025 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/19/97
INITIAL DATE: 09/06/88
ITEM NUMBER: K43 DATE LAST CHANGED: 03/01/06
SECTION: 1405 TIME LAST CHANGED: 11:48:55

REQUESTER: KSC
SUBREQUESTER: DYN-2 I-JJ
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20007S 20014S 20017S 20028S
TRACKING NO. L8307 L8311 R2721 R2809

1. FREQUENCY;
A. TRANSMITTED: 173.4375
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 16K00F3E, W60
3. PURPOSE: MEDICAL NET
4. GUARD BAND:
5. TIME:
6. LOCATION: KSC
7. REMARKS: RADIO NET 117 (MEDICAL)

[PRD] DATABASE RECORD: 243655 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/06/88
INITIAL DATE: 09/06/88
ITEM NUMBER: K44 DATE LAST CHANGED: 07/08/02
SECTION: 1405 TIME LAST CHANGED: 07:56:49

REQUESTER: KSC
SUBREQUESTER: DYN-2
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. R2632 R2721

1. FREQUENCY;

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1405 - TEST VEHICLE INSTRUMENTATION FREQUENCY SUMMARY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 243655
ITEM NUMBER: K44

A. TRANSMITTED: 173.5375
B. RECEIVE: 173.5375
2. EMISSION
CHARACTERISTICS: 16K00F3E, W30
3. PURPOSE: ACTIVATE/DEACTIVATE AIR SAMPLER (NET 111)
4. GUARD BAND:
5. TIME:
6. LOCATION: GROUND TO GROUND
7. REMARKS: RFA ER 86-051, TO BE CHECKED BY L-1
DAY. CONTACT: LEE MAULL/DYN-3/321 853-3281

[PRD] DATABASE RECORD: 253988 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/16/91
INITIAL DATE: 01/16/91
ITEM NUMBER: K45 DATE LAST CHANGED: 03/01/06
SECTION: 1405 TIME LAST CHANGED: 11:48:55

REQUESTER: KSC
SUBREQUESTER: IT-D2
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20007S 20014S 20017S 20028S
TRACKING NO. R2721 R2809 R3924

1. FREQUENCY;
A. TRANSMITTED: 173.5625
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 16K00F3E, W60
3. PURPOSE: PRE CRASH NET
4. GUARD BAND:
5. TIME:
6. LOCATION: KSC
7. REMARKS: RFA ER 89-001, RADIO NET 116 (FIRE/RESCUE)

[PRD] DATABASE RECORD: 225555 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/19/97
INITIAL DATE: 09/06/88
ITEM NUMBER: K46 DATE LAST CHANGED: 07/08/02
SECTION: 1405 TIME LAST CHANGED: 08:01:49

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1405 - TEST VEHICLE INSTRUMENTATION FREQUENCY SUMMARY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 225555
ITEM NUMBER: K46

REQUESTER: KSC
SUBREQUESTER: EI-C-C
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20007S 20014S 20017S 20028S
TRACKING NO. L8307 L8311 R2632 R2721 R2809

1. FREQUENCY;
A. TRANSMITTED: 173.6625
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 16K00F3E, W30
3. PURPOSE: EGRESS, ESCAPE & RESCUE OPS
4. GUARD BAND:
5. TIME:
6. LOCATION: KSC
7. REMARKS: RADIO NET 105 (SAFETY)

[PRD] DATABASE RECORD: 225925 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/08/89
INITIAL DATE: 06/08/89
ITEM NUMBER: K47 DATE LAST CHANGED: 10/18/05
SECTION: 1405 TIME LAST CHANGED: 09:29:07

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. R2892

1. FREQUENCY;
A. TRANSMITTED: 173.6625
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 16KOOF3E
3. PURPOSE: WSSH AIRFIELD CONTROL NET
4. GUARD BAND:
5. TIME:
6. LOCATION: WSSH

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1405 - TEST VEHICLE INSTRUMENTATION FREQUENCY SUMMARY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 225925
ITEM NUMBER: K47

7. REMARKS: AR 742206

[PRD] DATABASE RECORD: 191356 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/22/88
INITIAL DATE: 03/22/88
ITEM NUMBER: X48 DATE LAST CHANGED: 03/20/07
SECTION: 1405 TIME LAST CHANGED: 07:27:51

REQUESTER: DFRC
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S 20028S
TRACKING NO. KING2001 R109-86 R26100 R2809

1. FREQUENCY;
A. TRANSMITTED: 173.6875
B. RECEIVE: 169.6000
2. EMISSION
CHARACTERISTICS: 16K00F3E
3. PURPOSE: TV DIR. LOOP
4. GUARD BAND:
5. TIME: POST-LANDING
6. LOCATION: DFRC
7. REMARKS: TWO-FREQUENCY REPEATER SYSTEM

[PRD] DATABASE RECORD: 360761 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/03/92
INITIAL DATE: 01/29/90
ITEM NUMBER: D49 DATE LAST CHANGED: 12/21/06
SECTION: 1405 TIME LAST CHANGED: 10:13:34

REQUESTER: HSFS
SUBREQUESTER: DDMS
TEST CODE: DFRC EAFB S0026.200 S0026.300
STSALL WSSH

ASSOCIATED DOC: 20026S 20027S
TRACKING NO. L3615 L4503 R2809

1. FREQUENCY;
A. TRANSMITTED: 173.4375 / 173.7125 MHZ RESPECTIVELY

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1405 - TEST VEHICLE INSTRUMENTATION FREQUENCY SUMMARY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 360761
ITEM NUMBER: D49

B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 16KOOF3E
3. PURPOSE: FIRE CRASH NET
4. GUARD BAND:
5. TIME:
6. LOCATION: EAFB/WSSH
7. REMARKS: RFA ER 83-052/ *

[PRD] DATABASE RECORD: 232608 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/09/89
INITIAL DATE: 06/09/89
ITEM NUMBER: K50 DATE LAST CHANGED: 10/18/05
SECTION: 1405 TIME LAST CHANGED: 09:29:07

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-217
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. L3615 L4503 R2809

1. FREQUENCY;
A. TRANSMITTED: 173.7125
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 16F3
3. PURPOSE: MED NET, RESCUE NET
4. GUARD BAND:
5. TIME:
6. LOCATION: WSSH
7. REMARKS: AF 876717
06/09/89 PER/FREDLOCK/PH-J-B/321 867-2520
FREQUENCY NOT AUTHORIZED AT KSC.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1405 - TEST VEHICLE INSTRUMENTATION FREQUENCY SUMMARY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 331221 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/06/88
INITIAL DATE: 09/06/88
ITEM NUMBER: K51 DATE LAST CHANGED: 07/08/02
SECTION: 1405 TIME LAST CHANGED: 08:08:24

REQUESTER: KSC
SUBREQUESTER: EI-C
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20014S 20017S 20028S
TRACKING NO. R2721 R2809

1. FREQUENCY;
A. TRANSMITTED: 173.7875
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 16K00F3E, W10
3. PURPOSE: ENGINEERING COMM.
4. GUARD BAND:
5. TIME:
6. LOCATION: KSC
7. REMARKS: RFA ER 81-024, RADIO NET 216 (FIRE TAC)

[PRD] DATABASE RECORD: 175068 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/22/88
INITIAL DATE: 03/22/88
ITEM NUMBER: X52 DATE LAST CHANGED: 03/20/07
SECTION: 1405 TIME LAST CHANGED: 07:28:17

REQUESTER: DFRC
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. KING2001 R109-86 R26100 R2809

1. FREQUENCY;
A. TRANSMITTED: 184.325
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: F3/0.15W
3. PURPOSE: COMM IN SUPPORT OF ORBITER LANDINGS
4. GUARD BAND:
5. TIME: POST-LANDING

CONTINUED

[PRD] DATABASE RECORD: 175068
ITEM NUMBER: X52

6. LOCATION: DFRC
7. REMARKS: WIRELESS MICROPHONE

[PRD] DATABASE RECORD: 361853 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/22/88
INITIAL DATE: 03/22/88
ITEM NUMBER: X53 DATE LAST CHANGED: 03/20/07
SECTION: 1405 TIME LAST CHANGED: 07:28:47

REQUESTER: DFRC
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. KING2001 R109-86 R26100 R2809

1. FREQUENCY;
A. TRANSMITTED: 185.475
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: F3/0.15W
3. PURPOSE: COMM IN SUPPORT OF ORBITER LANDINGS
4. GUARD BAND:
5. TIME: POST-LANDING
6. LOCATION: DFRC
7. REMARKS: WIRELESS MICROPHONE

[PRD] DATABASE RECORD: 178655 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/22/88
INITIAL DATE: 03/22/88
ITEM NUMBER: X54 DATE LAST CHANGED: 03/20/07
SECTION: 1405 TIME LAST CHANGED: 07:29:10

REQUESTER: DFRC
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. KING2001 R109-86 R26100 R2809

1. FREQUENCY;
A. TRANSMITTED: 193.400
B. RECEIVE:

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1405 - TEST VEHICLE INSTRUMENTATION FREQUENCY SUMMARY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 178655
ITEM NUMBER: X54

2. EMISSION
CHARACTERISTICS: F3/0.15W
3. PURPOSE: COMM IN SUPPORT OF ORBITER LANDINGS
4. GUARD BAND:
5. TIME: POST-LANDING
6. LOCATION: DFRC
7. REMARKS: WIRELESS MICROPHONE

[PRD] DATABASE RECORD: 183051 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/22/88
INITIAL DATE: 03/22/88
ITEM NUMBER: X55 DATE LAST CHANGED: 03/20/07
SECTION: 1405 TIME LAST CHANGED: 07:29:35

REQUESTER: DFRC
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. KING2001 R109-86 R26100 R2809

1. FREQUENCY;
A. TRANSMITTED: 196.000
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: F3/0.15W
3. PURPOSE: COMM IN SUPPORT OF ORBITER LANDINGS
4. GUARD BAND:
5. TIME: POST-LANDING
6. LOCATION: DFRC
7. REMARKS: WIRELESS MICROPHONE

[PRD] DATABASE RECORD: 177651 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/22/88
INITIAL DATE: 03/22/88
ITEM NUMBER: X56 DATE LAST CHANGED: 03/20/07
SECTION: 1405 TIME LAST CHANGED: 07:29:58

REQUESTER: DFRC
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S

CONTINUED

[PRD] DATABASE RECORD: 177651
ITEM NUMBER: X56

TRACKING NO. KING2001 R109-86 R26100 R2809

1. FREQUENCY;
A. TRANSMITTED: 197.400
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: F3/0.15W
3. PURPOSE: COMM IN SUPPORT OF ORBITER LANDINGS
4. GUARD BAND:
5. TIME: POST-LANDING
6. LOCATION: DFRC
7. REMARKS: WIRELESS MICROPHONE

[PRD] DATABASE RECORD: 184175 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/22/88
INITIAL DATE: 03/22/88
ITEM NUMBER: X57 DATE LAST CHANGED: 03/20/07
SECTION: 1405 TIME LAST CHANGED: 07:30:21

REQUESTER: DFRC
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. KING2001 R109-86 R26100 R2809

1. FREQUENCY;
A. TRANSMITTED: 197.800
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: F3/0.15W
3. PURPOSE: COMM IN SUPPORT OF ORBITER LANDINGS
4. GUARD BAND:
5. TIME: POST-LANDING
6. LOCATION: DFRC
7. REMARKS: WIRELESS MICROPHONE

[PRD] DATABASE RECORD: 243790 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/11/92
INITIAL DATE: 09/06/88
ITEM NUMBER: K58 DATE LAST CHANGED: 07/08/02

CONTINUED

[PRD] DATABASE RECORD: 243790
ITEM NUMBER: K58

SECTION: 1405 TIME LAST CHANGED: 08:27:11

REQUESTER: KSC
SUBREQUESTER: I-TA USK-705
TEST CODE: RETREV STSALL
TRACKING NO. L4707 R2632 R2721

1. FREQUENCY;
A. TRANSMITTED: 240.0
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 10K00MON, W5
3. PURPOSE: LEFT SRB RECOVERY BEACON
4. GUARD BAND: N/A
5. TIME:
6. LOCATION: LEFT SRB
7. REMARKS: RFA SPC 92-506

[PRD] DATABASE RECORD: 185596 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/11/92
INITIAL DATE: 09/06/88
ITEM NUMBER: K59 DATE LAST CHANGED: 07/08/02
SECTION: 1405 TIME LAST CHANGED: 08:28:56

REQUESTER: KSC
SUBREQUESTER: I-PZ-F USK-705
TEST CODE: RETREV STSALL
TRACKING NO. L4707 R2632 R2721

1. FREQUENCY;
A. TRANSMITTED: 242.0
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 10KOMON, W5
3. PURPOSE: RIGHT SRB RECOVERY BEACON
4. GUARD BAND:
5. TIME: N/A
6. LOCATION: RIGHT SRB
7. REMARKS: RFA SPC 92-506

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1405 - TEST VEHICLE INSTRUMENTATION FREQUENCY SUMMARY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 207101 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/19/97
INITIAL DATE: 09/06/88
ITEM NUMBER: K60 DATE LAST CHANGED: 12/20/06
SECTION: 1405 TIME LAST CHANGED: 11:26:24

REQUESTER: KSC
SUBREQUESTER: I-MIL KSC/PH-L
TEST CODE: DFRC KSC S0026.200 STSALL

ASSOCIATED DOC: 20007S 20026S 20028S
TRACKING NO. L5216 L8307 L8311 R2632 R2721
R2809

1. FREQUENCY;
A. TRANSMITTED: 243.0
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 6K00A3E, W10
3. PURPOSE: EMERGENCY COMMUNICATIONS ONLY
4. GUARD BAND:
5. TIME:
6. LOCATION: OPF, PAD/MIL
7. REMARKS: PRELAUNCH CHECKOUT. USED DURING
OMI V1005, V1117
LAUNCH AND LANDING FOR EMERGENCY
A/G VOICE TEST O/C RESTRICTED. SEE TEST
PROCEDURES. NO RFA REQUIRED.

[PRD] DATABASE RECORD: 205174 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/12/02
INITIAL DATE: 09/06/88
ITEM NUMBER: K61 DATE LAST CHANGED: 02/12/07
SECTION: 1405 TIME LAST CHANGED: 09:54:17

REQUESTER: KSC
SUBREQUESTER: I-MIL KSC/PH-L NE-E
TEST CODE: KSC S0026.200 S0026.300 STSALL

ASSOCIATED DOC: 20007S 20017S 20026S 20027S
20028S
TRACKING NO. L8307 R2632 R2721 R2809 R8311

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1405 - TEST VEHICLE INSTRUMENTATION FREQUENCY SUMMARY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 205174
ITEM NUMBER: K61

1. FREQUENCY;
A. TRANSMITTED: 259.7
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 6K00A3E, W20
3. PURPOSE: (A) MIL SUPPORT OF SHUTTLE. (B) EVA DATA
BTWN SSO AND C&T, MIL; UPLINK
AND DOWNLINK A/G VOICE
4. GUARD BAND:
5. TIME:
6. LOCATION: OPF, PAD/MIL, SLF, WSSH
7. REMARKS:

[PRD] DATABASE RECORD: 278899 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/24/89
INITIAL DATE: 08/24/89
ITEM NUMBER: K63 DATE LAST CHANGED: 07/08/02
SECTION: 1405 TIME LAST CHANGED: 08:34:01

REQUESTER: KSC
SUBREQUESTER: SGS-346
TEST CODE: 26002A 26002B KSC MSBLS
SLF STSALL

ASSOCIATED DOC: 26002
TRACKING NO. R2632 R2721 R3436

1. FREQUENCY;
A. TRANSMITTED: 264.8
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 6K00A3E, W50
3. PURPOSE: AIR-TO-GROUND VOICE ATC VECTOR CONTROL-SLF
4. GUARD BAND:
5. TIME:
6. LOCATION: CCAS
7. REMARKS: RFA ETR 86-026

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1405 - TEST VEHICLE INSTRUMENTATION FREQUENCY SUMMARY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 359326 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/03/92
INITIAL DATE: 01/29/90
ITEM NUMBER: D64 DATE LAST CHANGED: 07/08/02
SECTION: 1405 TIME LAST CHANGED: 08:35:09

REQUESTER: HSFS
SUBREQUESTER: DDMS
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. L3615 R4503

1. FREQUENCY;
A. TRANSMITTED: 267.3 MHZ
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 6A3
3. PURPOSE: COMM BETWEEN ON-SCENE COMMANDER (OSC), BLDG 300,
AND KING-1.
4. GUARD BAND:
5. TIME:
6. LOCATION: WSSH
7. REMARKS: NOT AUTHORIZED FOR USE AT KSC OR EAFB.

[PRD] DATABASE RECORD: 20926 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/09/97
INITIAL DATE: 02/23/90
ITEM NUMBER: T64.1 DATE LAST CHANGED: 06/06/07
SECTION: 1405 TIME LAST CHANGED: 09:43:22

REQUESTER: JSC
TEST CODE: EAFB INFO STSALL

ASSOCIATED DOC: 20007S 20026S
TRACKING NO. KING2001 L002-15 L8108 R109-86 R3111

1. FREQUENCY;
A. TRANSMITTED: 279.0
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 55K0OA3D
3. PURPOSE: DFRC AIRBORNE WEATHER FREQUENCY
4. GUARD BAND:

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1405 - TEST VEHICLE INSTRUMENTATION FREQUENCY SUMMARY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 20926
ITEM NUMBER: T64.1

5. TIME:
6. LOCATION: DFRC
7. REMARKS: NASA 790165
REFERENCE LLS SECT. 2700, ITEM T68.1X, DBR 342218

[PRD] DATABASE RECORD: 330900 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/24/89
INITIAL DATE: 08/24/89
ITEM NUMBER: K65 DATE LAST CHANGED: 12/21/06
SECTION: 1405 TIME LAST CHANGED: 10:03:04

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L
TEST CODE: DFRC KSC S0026.200 S0026.300
STSALL

ASSOCIATED DOC: 20007S 20026S
TRACKING NO. R2632 R2721 R3436

1. FREQUENCY;
A. TRANSMITTED: 282.8
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 6K00A3E, W50
3. PURPOSE: AIR RESCUE COMMUNICATIONS
4. GUARD BAND:
5. TIME:
6. LOCATION: CCAS
7. REMARKS: RFA ER 86-030, PORTABLE RADIOS

[PRD] DATABASE RECORD: 357713 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/03/92
INITIAL DATE: 08/24/89
ITEM NUMBER: D66 DATE LAST CHANGED: 12/21/06
SECTION: 1405 TIME LAST CHANGED: 10:05:58

REQUESTER: HSFS
SUBREQUESTER: DDMS
TEST CODE: DFRC EAFB ISTRES KSC
MORON S0026.300 SLF STSALL
TAL WSSH ZARAGOZA

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1405 - TEST VEHICLE INSTRUMENTATION FREQUENCY SUMMARY

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[PRD] DATABASE RECORD: 357713
ITEM NUMBER: D66

ASSOCIATED DOC: 20017S 20026S 20027S 20028S
20029S 20057S
TRACKING NO. L3846 L4503 R2809 R3436

1. FREQUENCY;
A. TRANSMITTED: 282.8 MHZ
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 6A3
3. PURPOSE: DOD AIR-TO-GROUND (SAR OPERATIONS)
COMMUNICATIONS
4. GUARD BAND:
5. TIME:
6. LOCATION: WORLDWIDE DOD.
7. REMARKS: AUTH: AFR 100-31 PG 3-6, RFA ER 81-025

[PRD] DATABASE RECORD: 212568 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/19/97
INITIAL DATE: 08/24/89
ITEM NUMBER: K67 DATE LAST CHANGED: 09/25/03
SECTION: 1405 TIME LAST CHANGED: 10:40:19

REQUESTER: KSC
SUBREQUESTER: SGS-346
TEST CODE: KSC SLF STSALL

ASSOCIATED DOC: 20028S
TRACKING NO. L8307 L8311 R2632 R2721 R2809
R3436

1. FREQUENCY;
A. TRANSMITTED: 284.0
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 6K00A3E, W10
3. PURPOSE: AIR TRAFFIC CONTROL, SLF
4. GUARD BAND:
5. TIME:
6. LOCATION: KSC/SLF/DFRC/WSSH/BEN GUERIR/MORON/ZARAGOZA

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1405 - TEST VEHICLE INSTRUMENTATION FREQUENCY SUMMARY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 212568
ITEM NUMBER: K67

7. REMARKS:

[PRD] DATABASE RECORD: 250675 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/19/97
INITIAL DATE: 08/24/89
ITEM NUMBER: K69 DATE LAST CHANGED: 12/21/06
SECTION: 1405 TIME LAST CHANGED: 10:15:10

REQUESTER: KSC
SUBREQUESTER: I-MIL KSC/PH-L NE-E
TEST CODE: DFRC EAFB KSC S0026.100
S0026.200 S0026.300 STSALL WSSH

ASSOCIATED DOC: 20007S 20017S 20026S 20027S
20028S
TRACKING NO. L210-1 L5216 L8307 L8311 R2632
R2721 R2809 R3436

1. FREQUENCY;
A. TRANSMITTED: 296.8
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 6K00A3E, W20
3. PURPOSE: (A) MIL SUPPORT OF SHUTTLE; AIR TRAFFIC CONTROL
(B) EVA DATA/VOICE (UHF) BTWN SSO AND C&T, MIL;
MIL, UPLINK AND DOWNLINK A/G VOICE.
4. GUARD BAND:
5. TIME:
6. LOCATION: OPF, PAD/MIL;WSSH;EAFB (SIMPLEX ASTROCOMM
VOICE TEST)
7. REMARKS: OMI V1117, OMI V1005

[PRD] DATABASE RECORD: 221839 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/24/89
INITIAL DATE: 08/24/89
ITEM NUMBER: K72 DATE LAST CHANGED: 10/18/05
SECTION: 1405 TIME LAST CHANGED: 09:29:06

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1405 - TEST VEHICLE INSTRUMENTATION FREQUENCY SUMMARY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 221839
ITEM NUMBER: K72

TEST CODE: ALS ELS S61A03 STSALL

TRACKING NO. R2892 R3436

1. FREQUENCY;
A. TRANSMITTED: THE FOLLOWING GROUND SUPPORT FREQUENCIES
ARE REQUIRED AT A ALS/ELS.

ORB OPS/OMD	407.325 MHZ
GSE OPS/PURGE	408.150 MHZ
SUPPORT OPS/COOLING	409.175
CARGO OPS	408.800
TECHNICIANS OPS	409.125

RADIOS WILL BE MOTOROLA HANDI
TALKIE MODEL H43SSU3140

THESE RADIOS ARE PLANNED TO BE
USED SIMULTANEOUSLY 24 HOURS PER DAY
DURING THE ORBITER GROUND TURNAROUND
PERIOD (APPROX. 45 DAYS).

B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 16F3
3. PURPOSE: GROUND TURNAROUND TEAM
4. GUARD BAND:
5. TIME:
6. LOCATION: ALS/ELS
7. REMARKS:

[PRD] DATABASE RECORD: 332606 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/24/89
INITIAL DATE: 08/24/89
ITEM NUMBER: K73 DATE LAST CHANGED: 10/18/05
SECTION: 1405 TIME LAST CHANGED: 09:29:14

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-217
TEST CODE: KSC STSALL

CONTINUED

[PRD] DATABASE RECORD: 332606
ITEM NUMBER: K73

ASSOCIATED DOC: 20028S
TRACKING NO. R2721 R2809 R3436

1. FREQUENCY;
A. TRANSMITTED: 407.325
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 16K00F3E, W25
3. PURPOSE: ORBITER OPS/CMD CONVOY UHF NET 1
4. GUARD BAND:
5. TIME: USED SIMULTANEOUSLY DURING POST LANDING OPERATIONS. USED FOR OTHER OPERATIONS INCLUDING SCAPE AT OTHER TIMES.
6. LOCATION: KSC
7. REMARKS: RFA ER 87-008

[PRD] DATABASE RECORD: 200140 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/06/88
INITIAL DATE: 09/06/88
ITEM NUMBER: K74 DATE LAST CHANGED: 10/18/05
SECTION: 1405 TIME LAST CHANGED: 09:29:04

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. L210-1 R2632 R2721

1. FREQUENCY;
A. TRANSMITTED: 408.150
B. RECEIVE: 408.150
2. EMISSION
CHARACTERISTICS: 16K00F3E, W25
3. PURPOSE: TECHNICIAN OPERATIONS
4. GUARD BAND:
5. TIME: USED SIMULTANEOUSLY DURING POST LANDING OPERATIONS. USED FOR OTHER OPERATIONS INCLUDING SCAPE, AT OTHER TIMES.
6. LOCATION: WSMR

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1405 - TEST VEHICLE INSTRUMENTATION FREQUENCY SUMMARY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 200140
ITEM NUMBER: K74

7. REMARKS: RFA ER 87-008, UHF NET 3

[PRD] DATABASE RECORD: 335148 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/19/97
INITIAL DATE: 08/24/89
ITEM NUMBER: K75 DATE LAST CHANGED: 10/18/05
SECTION: 1405 TIME LAST CHANGED: 09:29:15

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20028S
TRACKING NO. L8307 L8311 R2721 R2809 R3436

1. FREQUENCY;
A. TRANSMITTED: 408.150
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 16K00F3E, W25
3. PURPOSE: GSE OPS/PURGE NET
4. GUARD BAND:
5. TIME: IF SCHEDULING IS REQUIRED, SCHEDULE PER KICS.

USED SIMULTANEOUSLY DURING POST LANDING
OPERATIONS. USED FOR OTHER
OPERATIONS INCLUDING SCAPE AT OTHER TIMES.
6. LOCATION: KSC/SLF
7. REMARKS:

[PRD] DATABASE RECORD: 14159 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/23/92
INITIAL DATE: 01/29/91
ITEM NUMBER: K77 DATE LAST CHANGED: 10/27/06
SECTION: 1405 TIME LAST CHANGED: 10:48:48

REQUESTER: KSC
SUBREQUESTER: IT-D2-C
TEST CODE: EAFB GUAM HICKAM KSC
MORON MSBLS STSALL WSSH
ZARAGOZA

CONTINUED

[PRD] DATABASE RECORD: 14159
ITEM NUMBER: K77

ASSOCIATED DOC: 20026S 20027S 20029S
TRACKING NO. L5207 R2697 R3936

1. FREQUENCY;
A. TRANSMITTED: 407.325 MHZ
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 15K00F2D
3. PURPOSE: GPS UPLINK DATA
4. GUARD BAND:
5. TIME:
6. LOCATION: KSC/DFRC/WSSH/MORON/ZARAGOZA/
HICKAM,AFB/ANDERSEN,AFB
7. REMARKS: FOR MSBLS FLIGHT TESTS. NASA 780509

[PRD] DATABASE RECORD: 334182 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/19/97
INITIAL DATE: 08/24/89
ITEM NUMBER: K81 DATE LAST CHANGED: 10/18/05
SECTION: 1405 TIME LAST CHANGED: 09:29:15

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-217
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20028S
TRACKING NO. L8307 L8311 R2809 R2892 R3436

1. FREQUENCY;
A. TRANSMITTED: 409.175
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: `6KOOF3E
3. PURPOSE: SUPPORT OPS/COOLING UHF NET
4. GUARD BAND:
5. TIME: IF SCHEDULING IS REQUIRED, SCHEDULE PER KICS.

USED SIMULTANEOUSLY DURING POST LANDING
OPERATIONS. USED FOR OTHER

CONTINUED

[PRD] DATABASE RECORD: 334182
ITEM NUMBER: K81

OPERATIONS INCLUDING SCAPE AT OTHER TIMES.
6. LOCATION: KSC/SLF
7. REMARKS:

[PRD] DATABASE RECORD: 225011 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/24/89
INITIAL DATE: 08/24/89
ITEM NUMBER: K82 DATE LAST CHANGED: 10/18/05
SECTION: 1405 TIME LAST CHANGED: 09:29:06

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20007S 20008S 20009S 20017S
25009S
TRACKING NO. R2632 R2892 R3436

1. FREQUENCY;
A. TRANSMITTED: 416.5
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 360K001D
3. PURPOSE: CHECKOUT OF RANGE SAFETY SYSTEM IN VAB AND PAD
(OPEN AND/OR CLOSED LOOP)
4. GUARD BAND: NONE
5. TIME:
6. LOCATION: VAB & PAD
7. REMARKS: OMI S1002 TEST CODE, B1018 - TEST CODE
20009S, OMI S1001 - TEST CODE 20008S

[PRD] DATABASE RECORD: 212537 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/08/89
INITIAL DATE: 06/08/89
ITEM NUMBER: K85 DATE LAST CHANGED: 10/18/05
SECTION: 1405 TIME LAST CHANGED: 09:29:05

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L
TEST CODE: KSC STSALL

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[PRD] DATABASE RECORD: 212537
ITEM NUMBER: K85

ASSOCIATED DOC: 20017S
TRACKING NO. R2632 R2892

1. FREQUENCY;
A. TRANSMITTED: 960 TO 1215
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 650K00V1A, 0.1 WATT
3. PURPOSE: CHECKOUT OF ORBITER TACAN AT OPF
AND PAD (TACAN BEACON SIMULATOR)
4. GUARD BAND: NONE
5. TIME:
6. LOCATION: OPF & PAD
7. REMARKS: ER 84-041
TACAN C/O IN OPF WILL
BE DONE OL. TACAN C/O AT PAD WILL BE
DONE BY INTERROGATING PAFB TACAN CH 97X
AND KSC STATION CH 59Y.

[PRD] DATABASE RECORD: 319095 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/07/92
INITIAL DATE: 06/08/89
ITEM NUMBER: K86 DATE LAST CHANGED: 05/09/03
SECTION: 1405 TIME LAST CHANGED: 11:43:56

REQUESTER: KSC
SUBREQUESTER: IT-D2-C
TEST CODE: KSC STSALL V1008
TRACKING NO. L5216 R2632 R2892

1. FREQUENCY;
A. TRANSMITTED: 962 to 1209
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: PULSE, 1 KW PEAK
3. PURPOSE: CHECKOUT OF ORBITER TACAN
4. GUARD BAND: NONE
5. TIME:
6. LOCATION: OPF
7. REMARKS: (OMI V1008) 981,962,1025,1044,1083,

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1405 - TEST VEHICLE INSTRUMENTATION FREQUENCY SUMMARY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 319095
ITEM NUMBER: K86

1095,1125,1135,1136,1142,1144,1156,
1158,1177,1188,1198,1199,1205 FREQ IN MHZ - CLOSED

LOOP

[PRD] DATABASE RECORD: 314934 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/29/91
INITIAL DATE: 01/29/91
ITEM NUMBER: K87 DATE LAST CHANGED: 05/09/03
SECTION: 1405 TIME LAST CHANGED: 11:43:56

REQUESTER: KSC
SUBREQUESTER: IT-D2-C
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. R2632 R2892 R3936

1. FREQUENCY;
A. TRANSMITTED: 1083 CH 59Y
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 650K00V1A, 10 KW
3. PURPOSE: CHECKOUT OF ORBITER TACAN
4. GUARD BAND:
5. TIME:
6. LOCATION: SLF
7. REMARKS:

[PRD] DATABASE RECORD: 216874 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/29/91
INITIAL DATE: 01/29/91
ITEM NUMBER: K88 DATE LAST CHANGED: 05/09/03
SECTION: 1405 TIME LAST CHANGED: 11:43:54

REQUESTER: KSC
SUBREQUESTER: IT-D2-C
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20007S 20017S
TRACKING NO. R2632 R2892 R3436 R3936

CONTINUED

[PRD] DATABASE RECORD: 216874
ITEM NUMBER: K88

1. FREQUENCY;
A. TRANSMITTED: 1146
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 650K00V1A, 10KW
3. PURPOSE: PRELAUNCH AND LANDING, C/O ORBITER TACAN
4. GUARD BAND:
5. TIME:
6. LOCATION: SLF
7. REMARKS: KSC TACAN CHANNEL 59Y; ER 88-075

[PRD] DATABASE RECORD: 16343 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/24/89
INITIAL DATE: 08/24/89
ITEM NUMBER: K90 DATE LAST CHANGED: 05/09/03
SECTION: 1405 TIME LAST CHANGED: 11:43:51

REQUESTER: KSC
SUBREQUESTER: IT-D2-C
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. R2632 R2721 R3436

1. FREQUENCY;
A. TRANSMITTED: 1184
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 650K00V1A, 7 KW
3. PURPOSE: CHECKOUT OF ORBITER TACAN
4. GUARD BAND:
5. TIME:
6. LOCATION: PATRICK
7. REMARKS:

[PRD] DATABASE RECORD: 235164 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/22/88
INITIAL DATE: 03/22/88
ITEM NUMBER: X91Z DATE LAST CHANGED: 03/20/07

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1405 - TEST VEHICLE INSTRUMENTATION FREQUENCY SUMMARY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 235164
ITEM NUMBER: X91Z

SECTION: 1405 TIME LAST CHANGED: 07:32:00

REQUESTER: DFRC
TEST CODE: EAFB STSALL WSSH

ASSOCIATED DOC: 20026S 20027S
TRACKING NO. KING2001 R109-86 R26100 R2809

1. FREQUENCY;
A. TRANSMITTED: 1710
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: F9/15W and F9/0.5W
3. PURPOSE: TV MICROWAVE - PORTABLE
4. GUARD BAND:
5. TIME:
6. LOCATION: DFRC AND WSSH
7. REMARKS: TWO, SEPARATE, FREQUENCIES (1710-1850 MHZ RANGE) TO BE USED SIMULTANEOUSLY BY TWO MICROWAVE TV TRANSMITTERS.

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/29/88
RESPONSE TRACKING: Z26127

[PRD] DATABASE RECORD: 188563 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/08/89
INITIAL DATE: 06/08/89
ITEM NUMBER: K92 DATE LAST CHANGED: 12/01/06
SECTION: 1405 TIME LAST CHANGED: 13:33:12

REQUESTER: KSC
SUBREQUESTER: NE-E
TEST CODE: STSALL
TRACKING NO. R2721 R2892

1. FREQUENCY;
A. TRANSMITTED: 1750 - 1850

CONTINUED

[PRD] DATABASE RECORD: 188563
ITEM NUMBER: K92

B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 4M00G9D, W5
3. PURPOSE: DOWNLINK SSO CMDS TO DOD P/L
TLM TO ORBITER
4. GUARD BAND:
5. TIME:
6. LOCATION:
7. REMARKS: RFA NASA 800268
20 CHANNELS, SPECIFIC FREQ. TBD
FOR EACH MISSION.

[PRD] DATABASE RECORD: 193642 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/30/97
INITIAL DATE: 06/08/89
ITEM NUMBER: K93 DATE LAST CHANGED: 12/01/06
SECTION: 1405 TIME LAST CHANGED: 13:33:12

REQUESTER: KSC
SUBREQUESTER: NE-E
TEST CODE: STSALL
TRACKING NO. L5216 L8207 R2632 R2892

1. FREQUENCY;
A. TRANSMITTED: 1775.7
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 5M00G7W, 20W
3. PURPOSE: UPLINK (DOD MODE) G/A VOICE,
G/A CMDS C&T EVCF TO SSO
4. GUARD BAND:
5. TIME:
6. LOCATION:
7. REMARKS:

[PRD] DATABASE RECORD: 194705 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/30/97
INITIAL DATE: 06/08/89
ITEM NUMBER: K94 DATE LAST CHANGED: 12/01/06
SECTION: 1405 TIME LAST CHANGED: 13:33:12

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1405 - TEST VEHICLE INSTRUMENTATION FREQUENCY SUMMARY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 194705
ITEM NUMBER: K94

REQUESTER: KSC
SUBREQUESTER: NE-E
TEST CODE: STSALL
TRACKING NO. L5216 L8207 R2632 R2892

1. FREQUENCY;
A. TRANSMITTED: 1831.8
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 5M00G7W,20W
3. PURPOSE: UPLINK (DOD MODE) G/A VOICE,
G/A CMDS C&T EVCF TO SSO
4. GUARD BAND:
5. TIME:
6. LOCATION:
7. REMARKS:

[PRD] DATABASE RECORD: 16344 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/22/88
INITIAL DATE: 03/22/88
ITEM NUMBER: K95Z DATE LAST CHANGED: 09/23/02
SECTION: 1405 TIME LAST CHANGED: 13:39:02

REQUESTER: KSC
TEST CODE: EAFB STSALL WSSH

ASSOCIATED DOC: 20026S 20027S
TRACKING NO. R26100 R2809

1. FREQUENCY;
A. TRANSMITTED: 1850
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: F9/15W AND F9/0.5W
3. PURPOSE: TV MICROWAVE-PORTABLE
4. GUARD BAND:
5. TIME:
6. LOCATION: DFRC AND WSSH
7. REMARKS: TWO, SEPARATE, FREQUENCIES (1710-1850 MHZ RANGE)
TO BE USED SIMULTANEOUSLY BY TWO MICROWAVE TV

CONTINUED

[PRD] DATABASE RECORD: 16344
ITEM NUMBER: K95Z

TRANSMITTERS.

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
SUBSUPPLIER: Z26127

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/29/88
RESPONSE TRACKING: Z26127

[PRD] DATABASE RECORD: 187529 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/08/89
INITIAL DATE: 06/08/89
ITEM NUMBER: K96 DATE LAST CHANGED: 10/18/05
SECTION: 1405 TIME LAST CHANGED: 09:29:03

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L
TEST CODE: STSALL
TRACKING NO. R2632 R2892

1. FREQUENCY;
A. TRANSMITTED: 2025 - 2120
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 5M00G9D 1.9W
3. PURPOSE: SSO CMDS TO NASA P/L
TLM TO ORBITER
4. GUARD BAND:
5. TIME:
6. LOCATION:
7. REMARKS: RFA NASA 822099
824 CHANNELS, SPECIFIC FREQ. TBD
FOR EACH MISSION.

[PRD] DATABASE RECORD: 316317 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/19/97
INITIAL DATE: 05/01/90
ITEM NUMBER: K97 DATE LAST CHANGED: 12/01/06
SECTION: 1405 TIME LAST CHANGED: 13:33:19

REQUESTER: KSC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1405 - TEST VEHICLE INSTRUMENTATION FREQUENCY SUMMARY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 316317
ITEM NUMBER: K97

SUBREQUESTER: I-MIL NE-E
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20007S 20014S 20017S
TRACKING NO. L004-4 L3521 L5216 L8307 L8311
R2632 R2892 R3436 R8303

1. FREQUENCY;
A. TRANSMITTED: 2041.9479
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 5M00G7W
3. PURPOSE: UPLINK G/A VOICE, G/A CMDS, C&T MIL TO SSO
DOWNLINK TLM, FROM SSO TO C&T MIL. UPLINK &
DOWNLINK A/G VOICE, BETWEEN SSO AND C&T MIL.
4. GUARD BAND:
5. TIME: IF SCHEDULING IS REQUIRED, SCHEDULE PER KICS.
6. LOCATION: OPF, PAD/MIL, SLF
7. REMARKS: (OMI V1117, OMI V1005)
REF: LLS, ITEM K2G, SECT 2500, DBR 205848.

[PRD] DATABASE RECORD: 16350 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/01/90
INITIAL DATE: 05/01/90
ITEM NUMBER: K99 DATE LAST CHANGED: 12/01/06
SECTION: 1405 TIME LAST CHANGED: 13:33:08

REQUESTER: KSC
SUBREQUESTER: I-MIL NE-E
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. L004-4 L3521 R2632 R2721 R3436

1. FREQUENCY;
A. TRANSMITTED: 2106.4063
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 3M00G9D
3. PURPOSE: UPLINK & DOWNLINK A/G VOICE, BETWEEN SSO AND

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1405 - TEST VEHICLE INSTRUMENTATION FREQUENCY SUMMARY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 16350
ITEM NUMBER: K99

C&T MIL
UPLINK G/A VOICE, G/A CMDS, C&T MIL TO SSO
DOWNLINK TLM, FROM SSO TO C&T MIL.
4. GUARD BAND:
5. TIME:
6. LOCATION: PAD A/MIL
7. REMARKS: RFA ER 89-039 (OMI V1117)
REF: LLS, ITEM K2G, SECT 2500, DBR 205848.

[PRD] DATABASE RECORD: 228427 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/18/97
INITIAL DATE: 05/01/90
ITEM NUMBER: K100 DATE LAST CHANGED: 12/01/06
SECTION: 1405 TIME LAST CHANGED: 13:33:15

REQUESTER: KSC
SUBREQUESTER: I-MIL NE-E
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20007S 20014S 20017S
TRACKING NO. L004-4 L3521 L5216 R2892 R8303

1. FREQUENCY;
A. TRANSMITTED: 2106.4063
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 5MG7W
3. PURPOSE: UPLINK (NASA MODE) G/A VOICE, G/A CMDS, C&T MIL
TO SSO.
4. GUARD BAND:
5. TIME:
6. LOCATION: PAD, OPF/MIL
7. REMARKS: RFA ER 84-007 (OMI V1117, V1005)
REF: LLS, ITEM K2G, SECT 2500, DBR 205848.

[PRD] DATABASE RECORD: 227531 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/19/97
INITIAL DATE: 08/24/89
ITEM NUMBER: K102 DATE LAST CHANGED: 12/01/06
SECTION: 1405 TIME LAST CHANGED: 13:33:15

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[PRD] DATABASE RECORD: 227531
ITEM NUMBER: K102

REQUESTER: KSC
SUBREQUESTER: I-MIL NE-E
TEST CODE: KSC STSALL

ASSOCIATED DOC:	20007S	20014S	20017S	20028S
TRACKING NO.	L5216	L8307	L8311	R2809	R2892
	R3436	R8303			

1. FREQUENCY;
A. TRANSMITTED: 2217.5
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 5MG7W
3. PURPOSE: DOWNLINK A/G VOICE, A/G TLM SSO
TO C&T, MIL OR EVCF
4. GUARD BAND:
5. TIME: IF SCHEDULING IS REQUIRED, SCHEDULE PER KICS.
6. LOCATION: PAD, OPF/MIL, SLF
OMI V1117, V1005
7. REMARKS:

[PRD] DATABASE RECORD: 230335 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/12/97
INITIAL DATE: 08/24/89
ITEM NUMBER: K105 DATE LAST CHANGED: 12/01/06
SECTION: 1405 TIME LAST CHANGED: 13:33:15

REQUESTER: KSC
SUBREQUESTER: I-MIL NE-E
TEST CODE: STSALL

ASSOCIATED DOC:	20007S	20014S	20017S	20028S
TRACKING NO.	L4707	L5216	L8207	L8307	R2632
	R2892	R3436	R8303		

1. FREQUENCY;
A. TRANSMITTED: 2250.0
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 10M00G7W, W10

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1405 - TEST VEHICLE INSTRUMENTATION FREQUENCY SUMMARY

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[PRD] DATABASE RECORD: 230335
ITEM NUMBER: K105

3. PURPOSE: DOWNLINK A/G TLM, TV SSO, DATA
TO C&T, MIL OR EVCF PRELAUNCH CHECKS.
4. GUARD BAND:
5. TIME: IF SCHEDULING IS REQUIRED, SCHEDULE PER KICS.
6. LOCATION: OPF, PAD/MIL, SLF
7. REMARKS: OMI V1005, V1117

[PRD] DATABASE RECORD: 226230 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/18/97
INITIAL DATE: 06/08/89
ITEM NUMBER: K107 DATE LAST CHANGED: 12/01/06
SECTION: 1405 TIME LAST CHANGED: 13:33:15

REQUESTER: KSC
SUBREQUESTER: I-MIL NE-E
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20007S 20014S 20017S 20028S
TRACKING NO. L5216 R2632 R2809 R2892 R8303

1. FREQUENCY;
A. TRANSMITTED: 2287.5
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 5M00G7W, 150W
3. PURPOSE: DOWNLINK A/G VOICE, A/G TLM SSO
TO C&T, MIL, EVCF
4. GUARD BAND:
5. TIME:
6. LOCATION: OPF, PAD/MIL
7. REMARKS: RFA ER 84-007(OMI V1117,V1005) PRELAUNCH CHECKS

[PRD] DATABASE RECORD: 223435 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/07/92
INITIAL DATE: 08/24/89
ITEM NUMBER: K109 DATE LAST CHANGED: 12/01/06
SECTION: 1405 TIME LAST CHANGED: 13:33:14

REQUESTER: KSC
SUBREQUESTER: NE-E
TEST CODE: KSC STSALL

CONTINUED

[PRD] DATABASE RECORD: 223435
ITEM NUMBER: K109

ASSOCIATED DOC: 20007S 20017S
TRACKING NO. L5216 R2892 R3436

1. FREQUENCY;
A. TRANSMITTED: 4300
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 20MP9
3. PURPOSE: CHECKOUT OF ORBITER RADAR ALTIMETER
AT OPF AND PAD
4. GUARD BAND: NONE
5. TIME:
6. LOCATION: OPF & PAD
7. REMARKS:

[PRD] DATABASE RECORD: 19990 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/27/89
INITIAL DATE: 10/27/89
ITEM NUMBER: K110.1 DATE LAST CHANGED: 05/09/03
SECTION: 1405 TIME LAST CHANGED: 11:40:40

REQUESTER: KSC
SUBREQUESTER: IT-D2
TEST CODE: 26011S 26012S STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. L3308

1. FREQUENCY;
A. TRANSMITTED: 5400-5900 MHZ
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 20M00P0N, 4M00P0N, 5M00P0N, 12M20P0N, 4M00P0N
3. PURPOSE: TRANSMIT POWER FROM 1000 KN TO 2.5MN
4. GUARD BAND:
5. TIME:
6. LOCATION: C-BAND RADAR SITES
7. REMARKS:

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1405 - TEST VEHICLE INSTRUMENTATION FREQUENCY SUMMARY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 239943 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/22/88
INITIAL DATE: 03/22/88
ITEM NUMBER: X111Z DATE LAST CHANGED: 03/20/07
SECTION: 1405 TIME LAST CHANGED: 07:44:27

REQUESTER: DFRC
TEST CODE: EAFB STSALL WSSH

ASSOCIATED DOC: 20026S 20027S
TRACKING NO. KING2001 R109-86 R26100 R2809

1. FREQUENCY;
A. TRANSMITTED: 7245
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: F9/0.5W
3. PURPOSE: TV MICROWAVE - MOBILE
4. GUARD BAND:
5. TIME:
6. LOCATION: DFRC/WSMR
7. REMARKS:

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/29/88
RESPONSE TRACKING: Z26127

[PRD] DATABASE RECORD: 236457 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/06/88
INITIAL DATE: 09/06/88
ITEM NUMBER: K112 DATE LAST CHANGED: 12/01/06
SECTION: 1405 TIME LAST CHANGED: 13:33:15

REQUESTER: KSC
SUBREQUESTER: I-MIL NE-E
TEST CODE: KSC STSALL
TRACKING NO. R2632 R2721

1. FREQUENCY;
A. TRANSMITTED: 13,775
B. RECEIVE:
2. EMISSION

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1405 - TEST VEHICLE INSTRUMENTATION FREQUENCY SUMMARY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 236457
ITEM NUMBER: K112

CHARACTERISTICS: 40M00G9W, W20
3. PURPOSE: UPLINK G/A VOICE, G/A CMDS, C&T
MIL TO SSO (TDRS CAPABILITIES)
4. GUARD BAND: N/A
5. TIME:
6. LOCATION:
7. REMARKS: RFA ER 84-007 PRELAUNCH CHECKS

[PRD] DATABASE RECORD: 192830 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/08/89
INITIAL DATE: 06/08/89
ITEM NUMBER: K113 DATE LAST CHANGED: 12/01/06
SECTION: 1405 TIME LAST CHANGED: 13:33:12

REQUESTER: KSC
SUBREQUESTER: NE-E
TEST CODE: STSALL
TRACKING NO. R2809 R2892

1. FREQUENCY;
A. TRANSMITTED: 13778 - 13987
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 26MOOP9
3. PURPOSE: RENDEZVOUS RADAR
4. GUARD BAND:
5. TIME:
6. LOCATION:
7. REMARKS: RFA NASA780155

[PRD] DATABASE RECORD: 217674 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/24/89
INITIAL DATE: 08/24/89
ITEM NUMBER: K114 DATE LAST CHANGED: 12/01/06
SECTION: 1405 TIME LAST CHANGED: 13:33:14

REQUESTER: KSC
SUBREQUESTER: I-MIL NE-E
TEST CODE: KSC STSALL
TRACKING NO. R2632 R2721 R3436

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1405 - TEST VEHICLE INSTRUMENTATION FREQUENCY SUMMARY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 217674
ITEM NUMBER: K114

1. FREQUENCY;
A. TRANSMITTED: 15,003.4
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 225M00G9W, W60
3. PURPOSE: DOWNLINK A/G VOICE, A/G TLM, SSO
TO C&T, MIL (TDRS CAPABILITIES)
4. GUARD BAND:
5. TIME:
6. LOCATION:
7. REMARKS: PM OR FM SELECTED BY SSO CONFIG.
RFA ER 84-007

[PRD] DATABASE RECORD: 219818 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/19/97
INITIAL DATE: 06/08/89
ITEM NUMBER: K115 DATE LAST CHANGED: 05/09/03
SECTION: 1405 TIME LAST CHANGED: 11:43:54

REQUESTER: KSC
SUBREQUESTER: IT-D2-C
TEST CODE: KSC MSBLS STSALL

ASSOCIATED DOC: 20007S 20028S
TRACKING NO. L5216 L8307 L8311 R2632 R2809
R2892

1. FREQUENCY;
A. TRANSMITTED: 15,400 to 15,700
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 4M00PON 2.2 KW
PULSE, 2.2 KW PEAK FROM ORBITER
3. PURPOSE: CHECKOUT OF ORBITER MSBLS AT OPF,
PAD AND CHECKOUT OF MSBLS GROUND STATION AT SLF.
4. GUARD BAND: NONE
5. TIME:
6. LOCATION: PAD/SLF
7. REMARKS: CH 8 -- 15616 MHZ
CH 6 -- 15568 MHZ

CONTINUED

[PRD] DATABASE RECORD: 219818
ITEM NUMBER: K115

[PRD] DATABASE RECORD: 278237 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/30/97
INITIAL DATE: 01/29/91
ITEM NUMBER: K116 DATE LAST CHANGED: 10/27/06
SECTION: 1405 TIME LAST CHANGED: 10:49:53

REQUESTER: KSC
SUBREQUESTER: IT-D2-C
TEST CODE: 26002A 26002B 26002C 26002D
EAFB KSC MORON MSBLS
STSALL WSMR WSSH ZARAGOZA

ASSOCIATED DOC: 20026S 20027S 20029S 26002
TRACKING NO. L8207 R2621 R2623 R2632 R2697
R3936 R7002

1. FREQUENCY;
A. TRANSMITTED: 15,460 MHZ
B. RECEIVE:
2. EMISSION
CHARACTERISTICS: 4M00PON 2.2 KW
3. PURPOSE: CHECKOUT OF MSBLS AT KSC,
MORON/ZARAGOZA/EAFB/WSMR
(INCLUDING DME CHECKS)
4. GUARD BAND:
5. TIME:
6. LOCATION: KSC/BEN GUERIR/MORON/ZARAGOZA/
EAFB/WSMR

7. REMARKS: DL ORBITER TO MSBLS.

[PRD] DATABASE RECORD: 278049 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/21/88
INITIAL DATE: 03/21/88
ITEM NUMBER: K119 DATE LAST CHANGED: 05/09/03
SECTION: 1405 TIME LAST CHANGED: 11:43:55

REQUESTER: KSC
SUBREQUESTER: IT-D2-C

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1405 - TEST VEHICLE INSTRUMENTATION FREQUENCY SUMMARY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 278049
ITEM NUMBER: K119

TEST CODE:	26002A	26002B	26002C	26002D
	ALS	EAFB	KSC	MSBLS
	STSALL	WSSH		

ASSOCIATED DOC:	20026S	20027S	26002	
TRACKING NO.	R2621	R2623	R2632	R2697

1. FREQUENCY;
 A. TRANSMITTED: 15,616 MHZ
 B. RECEIVE:
2. EMISSION
 CHARACTERISTICS: 5M00PON, 2.2 KW
3. PURPOSE: MSBLS AT KSC 15, WSSH 23,
 EAFB 22
4. GUARD BAND:
5. TIME:
6. LOCATION:
7. REMARKS: MSBLS CHANNEL 8/UPLINK RFA ER 85-051,9104

[PRD] DATABASE RECORD: 14153 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/29/91
INITIAL DATE: 01/29/91
ITEM NUMBER: K127 DATE LAST CHANGED: 10/27/06
SECTION: 1405 TIME LAST CHANGED: 10:51:19

REQUESTER: KSC
SUBREQUESTER: IT-D2-C

TEST CODE:	EAFB	KSC	MORON	MSBLS
	STSALL	TAL	WSSH	ZARAGOZA

ASSOCIATED DOC:	20026S	20027S	20029S	20057S	
TRACKING NO.	L3846	R2697	R3436	R3936	R7002

1. FREQUENCY;
 A. TRANSMITTED: 15,568 MHZ
 B. RECEIVE:
2. EMISSION
 CHARACTERISTICS: 5M00PON, 2.2 KW
3. PURPOSE: MSBLS AT KSC 33, WSSH 17, ZARAGOZA 31L,

CONTINUED

[PRD] DATABASE RECORD: 14153
ITEM NUMBER: K127

EAFB 17, AND MORON 21,
PLUS ANY OTHER RUNWAY MSBLS INSTALLATION.

4. GUARD BAND:
5. TIME:
6. LOCATION: MSBLS: WSSH/ KSC/ ZARAGO/MORON/
EAFB
7. REMARKS: MSBLS CHANNEL 6/UPLINK

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1480 - OTHER TEST VEHICLE SYSTEMS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD:	295401	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	LLS	APPROVAL DATE:	05/24/91
		INITIAL DATE:	06/14/89
ITEM NUMBER:	K1G	DATE LAST CHANGED:	12/01/06
SECTION:	1480	TIME LAST CHANGED:	13:33:18

REQUESTER:	KSC
SUBREQUESTER:	KSC/PH-L NE-E
TEST CODE:	STSALL
TRACKING NO.	DB98 KING2001 L4029 R109-79 R2855
PRIORITY:	MANDATORY
RATIONALE:	VOICE COMMUNICATIONS

1. DESCRIPTION: PROVIDE THE FOLLOWING OPEN LOOP UHF/S-BAND CAPABILITIES AT MILA TO INTERFACE THE ORBITER SYSTEMS AND THE GROUND CHECKOUT FACILITIES INCLUDING THE C&T STATION AND LPS:

   I. S-BAND PM
      (1) SUPPLY UPLINK
          (a) VOICE
          (b) COMMANDS
          (c) RANGING
      (2) MONITOR DOWNLINK
          (a) VOICE
          (b) DATA
          (c) RANGING

   II. S-BAND FM
       (1) MONITOR DOWNLINK
           (a) T.V.
           (b) VOICE (DUMPED)
           (c) DATA (R/T & DUMPED)

   III. UHF
        (1) SUPPLY UPLINK VOICE
        (2) MONITOR DOWNLINK VOICE

   DURING OPF, PAD AND POST-LANDING OPERATIONS, MILA IS REQUIRED TO:
    (1) SUPPLY UPLINK DATA TO ORBITER (MCC GENERATED).
    (2) MONITOR ORBITER DOWNLINK UHF/S-BAND AND PERFORM MEASUREMENTS INCLUDING RADIATED POWER, FREQUENCY, T.V. QUALITY, ETC. (OPF AND PAD ONLY).
    (3) LINK ORBITER R.F. (S-BAND AND UHF VOICE) TO OIS (ASTRO-COMM)
    (4) SUPPLY DOWNLINK DATA (R/T AND PLAYBACK) TO LPS.

CONTINUED

[PRD] DATABASE RECORD: 295401
ITEM NUMBER: K1G

(5) PROVIDE A CAPABILITY TO RECEIVE COMMANDS FROM THE LPS, MULTIPLEX WITH UPLINK VOICE AND TRANSMIT TO THE ORBITER VIA S-BAND. MILA TO PROVIDE UPLINK COMMAND CAPABILITY TO EITHER MCC/JSC OR LPS/KSC, BUT NOT TO BOTH SIMULTANEOUSLY.

POC: TED MOSTELLER/PH-L/321 861-9307
MILA/OPS SUPPORT/321 867-3518

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/24/91
RESPONSE TRACKING: GSFCREV06 Z2848 Z4036

[PRD] DATABASE RECORD: 205848 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/07/92
INITIAL DATE: 05/01/90
ITEM NUMBER: K2G DATE LAST CHANGED: 12/01/06
SECTION: 1480 TIME LAST CHANGED: 13:33:13

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L NE-E
TEST CODE: STSALL
TRACKING NO. DB98 KING2001 L3521 L5216 R109-79
R2855
PRIORITY: MANDATORY
RATIONALE: PROVIDES ALL RF COMMUNICATION WITH ORBITER DURING GROUND OPERATIONS.

1. DESCRIPTION: MILA TO PROVIDE THE FOLLOWING S-BAND PM SUPPORT:
(OMI V1005)

1. CHECK HIGH AND LOW FREQUENCIES

	UPLINK	DOWNLINK
HIGH	2106.4063 MHz	2287.5 MHz
LOW	2041.9479 MHz	2217.5 MHz

CONTINUED

[PRD] DATABASE RECORD: 205848
ITEM NUMBER: K2G

2. CHECK HIGH AND LOW BIT RATE

	UPLINK *	DOWNLINK	
HIGH	72	192	(BOTH AG-1 AND AG-2)
LOW	32	96	(LOW BIT GROUND AG-1 ONLY)

*REQUIRES DATA-ONLY AND DATA-PLUS-RANGING MODES (UPLINK ONLY)

3. ACCEPT COMMANDS FROM LPS, MUX THE COMMANDS WITH ASTRO-COMM AG-1 AND AG-2 FOR UPLINKING TO THE ORBITER.

4. PERFORM A TONE RANGING DELAY.

5. DMUX DOWNLINK, AG-1 AND AG-2 ON ASTRO-COMM. SHIP TELEMETRY DATA TO THE LCC1.

POC: RICHARD ROGERS/PH-F1/321 861-3854

REF: LLS ITEMS, K97, SECT 1405, DBR 316317
K99, SECT 1405, DBR 016350
K100, SECT 1405, DBR 228427

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/07/92
RESPONSE TRACKING: GSFCREV06 Z2848 Z3551 Z5217

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1480 - OTHER TEST VEHICLE SYSTEMS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 215367 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/07/92
INITIAL DATE: 05/01/90
ITEM NUMBER: K3G DATE LAST CHANGED: 01/15/07
SECTION: 1480 TIME LAST CHANGED: 09:26:34

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L NE-E
TEST CODE: DFRC S0026.200 S0026.300 STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 GSFCREV06 KING2001 L3521 L5216
R109-79 R2855
PRIORITY: MANDATORY
RATIONALE: PROVIDES ALL RF COMMUNICATION WITH ORBITER DURING GROUND OPERATIONS.

1. DESCRIPTION: MILA TO PROVIDE THE FOLLOWING UHF SUPPORT

PERFORM SIMPLEX ASTRO-COMM VOICE TEST ON:

A. 243.0 MHZ
B. 259.7 MHZ
C. 296.8 MHZ

POC: RICHARD ROGERS/NE-E1/321 861-3854

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/07/92
RESPONSE TRACKING: Z2848 Z3551 Z5217

[PRD] DATABASE RECORD: 218310 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/07/92
INITIAL DATE: 06/14/89
ITEM NUMBER: K4G DATE LAST CHANGED: 01/15/07
SECTION: 1480 TIME LAST CHANGED: 09:27:10

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L NE-E
TEST CODE: STSALL

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1480 - OTHER TEST VEHICLE SYSTEMS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 218310
ITEM NUMBER: K4G

TRACKING NO. DB98 KING2001 L5216 R109-79 R2855
PRIORITY: MANDATORY
RATIONALE: PROVIDES ALL RF COMMUNICATION WITH ORBITER

1. DESCRIPTION: MILA TO PROVIDE THE FOLLOWING S-BAND FM SUPPORT:
(OMI V1005)

1. OPERATIONAL INSTRUMENTATION (OI) LINK

A. RECEIVE CARRIER 2250.0 MHz
B. EVALUATE:
(1) OPERATIONAL RECORDER TAPE DUMP
(2) TV
C. ROUTE RECORDER DUMPS AND SSME TO RPS.

POC: RICHARD ROGERS/NE-E1/321 861-3854

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/07/92
RESPONSE TRACKING: GSFCREV06 Z2848 Z5217

[PRD] DATABASE RECORD: 580767 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/09/05
INITIAL DATE: 03/09/05
ITEM NUMBER: KTY5G DATE LAST CHANGED: 11/28/06
SECTION: 1480 TIME LAST CHANGED: 11:26:39

REQUESTER: KSC JSC NASA HQ
SUBREQUESTER: JSC/M03 JSC/MS2 KSC/PH
TEST CODE: S0007.100 STSALL TVPLAN

ASSOCIATED DOC: 20007S 20009S 20017S
TRACKING NO. GSFCREV06 L06-10-1 L06-11-1 R0504-7 R0610-2
SCRUB06

1. DESCRIPTION: ET TV VIDEO CAMERA SYSTEM

CONTINUED

[PRD] DATABASE RECORD: 580767
ITEM NUMBER: KTY5G

THE EXTERNAL TANK SHUTTLE OBSERVATION CAMERA PROVIDES REAL-TIME VIDEO COVERAGE OF THE SPACE SHUTTLE ORBITER (SSO), EXTERNAL TANK (ET), AND SOLID ROCKET BOOSTERS (SRB's) FROM 2 MIN 25 SECONDS PRIOR TO LIFT-OFF UNTIL LOS FOLLOWING ET SEPARATION. AN FM TRANSMITTER (2272.5 MHz) AND ANTENNAS MOUNTED ON THE ET SENDS THE RF VIDEO SIGNAL TO THE MILA, PONCE DE LEON, JDMTA AND WALLOPS GROUND STATIONS.

POINT OF CONTACTS: JSC/MS2/CHRISTINE BOYKIN/281 483-1251
JSC/MO3-USA/RAY BANKS/281 483-8233

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/09/05

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1600 - SYSTEM READINESS TESTS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD:	246353	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	LLS	APPROVAL DATE:	01/09/97
		INITIAL DATE:	06/30/89
ITEM NUMBER:	T1EGK	DATE LAST CHANGED:	11/16/06
SECTION:	1600	TIME LAST CHANGED:	07:13:20

REQUESTER: JSC
TEST CODE: INFO STSALL
TRACKING NO. L104-13 L4009 L8108 L906-8 R2886

1. DESCRIPTION: MCC INTERFACE TEST (MIT)

1. NUMBER AND TIME
   A. THE LENGTH OF THE TEST WILL NOT EXCEED ONE DAY'S TESTING IN THE ORBITER TEST FLOW. CONCURRENT TESTING BY KSC ON A NONINTERFERENCE BASIS IS NOT PRECLUDED.

   B. THE INTENT IS FOR ORBITER SUPPORT TO BE MINIMIZED. HOWEVER, AN OCCASIONAL REQUIREMENT MAY EXIST FOR AN MIT-TYPE TEST DUE TO INSTALLATION OF ADDITIONAL ORBITER EQUIPMENT OR DUE TO HARDWARE OR DESIGN CHANGES.

2. OBJECTIVES
   A. THE MCC INTERFACE TESTS, WHETHER SHUTTLE OR PAYLOAD ORIENTED, ARE TO DEMONSTRATE THE COMPATIBILITY OF AIR-TO-GROUND AND GROUND-TO-GROUND FLIGHT DATA SYSTEMS OPERATIONS, INCLUDING THE FUNCTIONAL DEMONSTRATION OF CERTAIN COMMAND CAPABILITIES TO END ITEM ACTION.

   B. THE TEST WILL PROVIDE VERIFICATION OF STANDARD & LIMITED BACKUP FLIGHT OPERATIONS PROCEDURES WITH THE ORBITER.

3. EVOLUTION TIME
   IT IS FLIGHT OPERATIONS' INTENT TO DEVELOP CONFIDENCE IN THE GROUND SYSTEMS, THROUGH USE OF MIT'S TO THE POINT WHERE MIT'S ARE NO LONGER REQUIRED. THE GOAL IS TO DELETE THESE TESTS AS SOON AS POSSIBLE. THE PARTICULAR MISSION ON WHICH THAT CONFIDENCE LEVEL IS ATTAINED IS DEPENDENT UPON THE RATE AT WHICH THE GROUND SYSTEM MATURE AND, TO A LESSER EXTEND, ON THE EVOLUTION OF THE FLIGHT SOFTWARE.

KSC OVERALL TESTS

1. COMMENSURATE WITH THE FACT THAT SHUTTLE INTERIM OPERATIONS

CONTINUED

[PRD] DATABASE RECORD: 246353
ITEM NUMBER: T1EGK

PHILOSOPHY RESEMBLES THAT OF OFT'S FLIGHT OPERATIONS REQUIRES ACTIVE SUPPORT IN CERTAIN KSC OVERALL TESTS WHICH MAY REQUIRE KSC/GSFC/JSC/POCC/45 SW (RSO) SUPPORT INTERCHANGES.

2. THE PARTICIPATION REQUIRED VARIES IN EACH TEST DESCRIBED BELOW BUT, IN GENERAL, IS LIMITED TO TELEMETRY COMMAND, A/G VOICE CHECK, AND GO/NO GO CALL-OUTS THAT BETTER APPROXIMATE ACTUAL FLIGHT CONDITIONS. ALSO, FLIGHT OPERATIONS IS WILLING TO PROVIDE ANY ADDITIONAL SUPPORT THAT WOULD ENHANCE KSC TEST OBJECTIVES. THE SPECIFIC TESTS MOST LIKELY TO REQUIRE MCC PARTICIPATION ARE:

   A. MCC INTERFACE TESTS (MIT)
   B. CARGO END TO END TESTS
   C. TERMINAL COUNTDOWN DEMONSTRATION TEST (TCDT)
   D. SHUTTLE LAUNCH COUNTDOWN(LCD)
   E. FLT READINESS FIRING (FRF)

3. JSC FLIGHT OPERATIONS WILL PROVIDE FLIGHT CREWS TO PARTICIPATE IN PRELAUNCH TESTING. THIS PARTICIPATION WILL BE DEFINED BY JSC AT A LATER DATE. IT IS ANTICIPATED THAT FLIGHT CREW PARTICIPATION IN PRELAUNCH TESTING WILL DIMINISH AS THE PROGRAM FURTHER MATURES.

SHUTTLE COUNTDOWN:
PARTICIPATION REQUIRED INCLUDES, BUT IS NOT LIMITED TO, A SHORT COMMAND INTERFACE CHECK, AN A/G VOICE CHECK, AN ONBOARD CLOCK UPDATE, A STATE VECTOR TARGET UPDATE, AND AN ERASABLE MEMORY PARAMETER UPDATE. MCC ACTIVE SUPPORT WILL BE AVAILABLE CONTINUOUSLY FROM APPROXIMATELY L-10 HOURS. AS THE LAUNCH COUNT EVOLVES FROM ONE FLIGHT TO THE NEXT, MCC SUPPORT WILL DECREASE APPROPRIATELY.

BRIEFINGS:
JSC PLANS TO PARTICIPATE IN THE L-1 DAY MISSIONS MANAGEMENT TEAMS (MMT), CREW WEATHER AND SYSTEMS BRIEFINGS. VOICE AND VIDEO (MMT & WEATHER) RESOURCES WILL BE NECESSARY IN SUPPORT OF THESE ACTIVITIES.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)

CONTINUED

[PRD] DATABASE RECORD: 246353
ITEM NUMBER: T1EGK

SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z8134

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z8134

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: PH-I PH-L

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z8134

[PRD] DATABASE RECORD: 324335 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/24/05
INITIAL DATE: 02/14/90
ITEM NUMBER: H6DEGKTXYZ DATE LAST CHANGED: 05/30/07
SECTION: 1600 TIME LAST CHANGED: 10:33:20

REQUESTER: MSFC
SUBREQUESTER: MS152A MS193
TEST CODE: EAFB INFO STSALL

ASSOCIATED DOC: 20007S 20008S 20009S 20017S
20024S 20037S 20044S 25009S
25307.7B
TRACKING NO. KING2001 L5550 L6702 L8108 R0502-10
R104-5 R109-87 R3102 R9802 SCRUB06

1. DESCRIPTION: MSFC HOSC/DATA REDUCTION CENTER SUPPORTS THE FOLLOWING TESTS REAL TIME:

B5307.7 - RSRM JOINT HEATER FUNCTIONAL TEST - VAB OPERATIONS
S0007 - LAUNCH COUNTDOWN
S0008 - SHUTTLE INTERFACE TEST

CONTINUED

[PRD] DATABASE RECORD: 324335
ITEM NUMBER: H6DEGKTXYZ

S0009 - SHUTTLE PAD VALIDATION
S0017 - TERMINAL COUNT DEMONSTRATION TEST
S0024 - PRELAUNCH PROPELLANT SERVICES
S0037 - TANKING TEST
S0044 - COUNTDOWN SIM
MMT SIM
S5009 - FINAL ORDINANCE INSTALLATION
SSME FRT
OMI 1149 - VAB ORBITER RECIRC PUMP DRY SPIN TEST

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 02/24/05
RESPONSE TRACKING: Z104-4 Z8134

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 02/24/05
RESPONSE TRACKING: Z104-4 Z8134

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 02/24/05
RESPONSE TRACKING: Z104-4 Z8134

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2 KICS-105 KICS-109
PH-I PH-L

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 02/24/05
RESPONSE TRACKING: Z104-4 Z8134

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

CONTINUED

[PRD] DATABASE RECORD: 324335
ITEM NUMBER: H6DEGKTXYZ

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 02/24/05
RESPONSE TRACKING: Z104-4 Z8134

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 02/24/05
RESPONSE TRACKING: Z104-4 Z8134

SUPPLIER: NASA HQ AGENCY: NASA/HQ (NASA HEADQUARTERS (WASHINGTON))

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 02/24/05
RESPONSE TRACKING: Z104-4 Z8134

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 02/24/05
RESPONSE TRACKING: Z104-4 Z8134

[PRD] DATABASE RECORD: 179302 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/22/94
INITIAL DATE: 06/26/89
ITEM NUMBER: G8DEGHST DATE LAST CHANGED: 05/30/07
SECTION: 1600 TIME LAST CHANGED: 10:33:09

REQUESTER: GSFC
SUBREQUESTER: 94-03 GSFC/533 MS177 VALO92002
VALOE
TEST CODE: S51E01 STSALL
TRACKING NO. L4514 L6515 MK98 R2850 R2876
R3411 RSRR117A SHAW94
PRIORITY: MANDATORY
RATIONALE: MISSION SUCCESS

1. DESCRIPTION: STDN NETWORK VERIFICATION TEST

EACH CONTROL CENTER SUPPORTING SHUTTLE OPERATIONS WILL
(WHERE THE FOLLOWING CASES OR CONDITIONS APPLY) EXERCISE EACH OF

CONTINUED

[PRD] DATABASE RECORD: 179302
ITEM NUMBER: G8DEGHST

THEIR STATIONS TO VERIFY THE PROPER OPERATION OF THE STATIONS AND FACILITIES UNDER IT'S MANAGEMENT CONTROL. THE DOD WILL VERIFY THEIR INDIVIDUAL RANGES, NETWORKS, AND/OR FACILITIES FOR PROPER OPERATION OF THE EQUIPMENT AND PROCEDURES. ALL NETWORK RESOURCES MAY BE SCHEDULED BY JSC/GSFC TO INTERFACE WITH THE JSC MCC FOR END-TO-END DATA FLOW/VALIDATION TESTS WHEN:

1. SIGNIFICANT HARDWARE, SOFTWARE OR CONFIGURATION CHANGES HAVE OCCURED (INCLUDING COMMUNICATIONS LINKS WITH THE STATIONS).

2. SUPPORT REQUIREMENT CHANGES OR UNIQUE PAYLOAD REQUIREMENTS EXIST.

3. MISSIONS ARE SEPARATED BY AN EXTENSIVE PERIOD OF TIME.

THE DETAILS OF THE TESTING PROCEDURES ARE CONTAINED IN THE 450 VTR-STDN

450 SPACE COMMUNICATIONS PROGRAM NETWORK VERIFICATION MANUAL FOR SPACE SHUTTLE PROGRAM.

SUPPORT DOCUMENTS INCLUDE THE FOLLOWING: INDIVIDUAL STATIONS SUPPORT READINESS TESTS, SPACE SHUTTLE 451 RETURN TO FLIGHT TEST PLAN (FOR SN TESTING), CONTAINED IN THE 450 NOSP SPACE SHUTTLE DOCUMENT AND THE 450 OIP-DSCM DSMC OPERATIONS INTERFACE PROCEDURES DOCUMENT OR IN SPECIFIC BRIEFING MESSAGES.

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/18/94
RESPONSE TRACKING: Z3405 Z3415 Z4543 Z6804

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB ER USAKA
WR WSMR
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/02/99
RESPONSE TRACKING: Z3405 Z3421 Z4543 Z6585 Z9313

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)

CONTINUED

[PRD] DATABASE RECORD: 179302
ITEM NUMBER: G8DEGHST

SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/22/94
RESPONSE TRACKING: Z2861 Z3405 Z4533 Z6578

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/12/94
RESPONSE TRACKING: Z3405 Z3452 Z4935 Z6802

SUPPLIER: SDTW AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/30/94
RESPONSE TRACKING: Z2861 Z3405 Z4940 Z5009 Z6585

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/06/94
RESPONSE TRACKING: Z28121 Z3405 Z4935 Z6591

[PRD] DATABASE RECORD: 384474 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/09/97
INITIAL DATE: 06/26/89
ITEM NUMBER: G9DEGHJKST DATE LAST CHANGED: 05/30/07
SECTION: 1600 TIME LAST CHANGED: 10:33:22

REQUESTER: GSFC
SUBREQUESTER: GSFC/533
TEST CODE: INFO KSC S51A12 S51E01
S61E09 STSALL
TRACKING NO. GSFCREV06 L8108 R0503-1 R2850 R2876

1. DESCRIPTION: SPACE NETWORK CONFIGURATION TEST

PRIOR TO ANY MAJOR EVENT, TEST, END-TO-END TEST, OR LAUNCH OF
A PAYLOAD AND/OR ORBITER THAT REQUIRES AN IN-ORBIT TDRS, GSFC

CONTINUED

[PRD] DATABASE RECORD: 384474
ITEM NUMBER: G9DEGHJKST

REQUIRES AND WILL PERFORM A NETWORK CONFIGURATION TEST USING
MIL RELAY AND OTHER ELEMENTS OF THE SPACE NETWORK (INFO ONLY).

TECH CONTACT: J. BANGERTER/GSFC/CODE 451.0/301 286-7306

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z2861 Z8134

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z2861 Z8134

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z2861 Z8134

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z2861 Z8134

SUPPLIER: JPL AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z2861 Z8134

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: NE-E

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97

CONTINUED

[PRD] DATABASE RECORD: 384474
ITEM NUMBER: G9DEGHJKST

RESPONSE TRACKING: Z2861 Z8134

SUPPLIER: SDTW AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z2861 Z8134

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z2861 Z8134

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2000 - TEST REQUIREMENTS/SUPPORT PLANS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD:	172	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	LLS	APPROVAL DATE:	11/16/01
		INITIAL DATE:	06/30/89
ITEM NUMBER:	T1EGK	DATE LAST CHANGED:	01/15/07
SECTION:	2000	TIME LAST CHANGED:	09:30:00

REQUESTER: JSC
TEST CODE: INFO S51D05 S61E14 STSALL

ASSOCIATED DOC: 20017S 20044S
TRACKING NO. GSFCREV06 KING2001 L105-3 L4012 L8108
L906-8 R109-11 R2621 R2886 R8303
SCRUB06
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: JSC/MCC FLIGHT CONTROL TEAM (FCT).
PRELAUNCH TEST SUPPORT

THE FOLLOWING CRITERIA IS TO FURTHER DEFINE JSC REQUESTS FOR VEHICLE PRE-LAUNCH TEST SUPPORT.

1. "TEST SUPPORTED"
   A. CARGO END TO END TEST (E02XX, E03XX)
   B. TERMINAL COUNTDOWN DEMONSTRATION (OMI S0017) (SEE NOTE)
   C. SHUTTLE COUNTDOWN (OMI S0007)
   D. TDRSS/MIT - MCC INTERFACE TEST DESIGNED TO VERIFY THE TRACKING AND DATA RELAY SATELLITE SYSTEM-TO-MCC PRIOR TO ORBITAL SUPPORT. (OMI S0002, EO2XX, EO3XX)
   E. FLIGHT READINESS FIRING
   SEE NOTE..
2. "SUPPORT REQUIRED"
   A. S-BAND (MILA) - COMMAND/VOICE, HDR & LDR TELEMETRY INTERFACE THRU MILA STATION (INCLUDES A/G 1, A/G 2, UHF).
   B. S-BAND (TDRSS) - COMMAND/VOICE, HDR & LDR TELEMETRY INTERFACE FROM OV-TO-OPF ANTENNA VIA MILA-RELAY-TDRSS AND BACK TO MCC.
   C. KU-BAND (TDRSS) - COMMAND/VOICE, HDR TELEMETRY INTERFACE FROM OV TO OPF ANTENNA VIA MILA-RELAY-TDRSS AND BACK TO MCC.
   D. OIS COMM - TALK/MONITOR ON THE TEST CONDUCTOR PRIME LOOPS AND LIMITED ORBITER SYSTEMS LOOPS. (INCLUDES

CONTINUED

[PRD] DATABASE RECORD: 172
ITEM NUMBER: T1EGK

INTERCOM A AND B).
E. SLSS - SHUTTLE LAUNCH SUPPORT SYSTEM.
F. TIMING (KSC) - COUNTDOWN CLOCK TIME.
G. TELEVISION - OTV AND OV ONBOARD TV (NO OTV IN OPF)
H. UHF AIR TO GROUND VOICE (MILA)
I. HARDLINE TELEMETRY DATA.
J. ENCRYPTED DATA UPLINK AND DOWNLINK INTERFACE VERIFICATION. SEE NOTE.

POC: TED MOSTELLER/PH-L/321 861-9307

TECHNICAL CONTACT: WAYNE HALE/281 483-0693

NOTE: MCC WILL NORMALLY SUPPORT OMI S0017 AND OMI S0044 AS REQUIRED BY MOD FLIGHT DIRECTOR. A BRIEFING MESSAGE WILL BE SENT PRIOR TO TESTING TO CONFIRM JSC'S PARTICIPATION.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 11/16/01
RESPONSE TRACKING: Z2869 Z8134 Z8304

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 11/16/01
RESPONSE TRACKING: Z2869 Z8134 Z8304

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: CSR4620 IT-D2 KICS-105
KICS-109 PH-L

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 11/16/01
RESPONSE TRACKING: Z8134 Z8304

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2000 - TEST REQUIREMENTS/SUPPORT PLANS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 197499 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/16/01
INITIAL DATE: 05/01/90
ITEM NUMBER: E3G DATE LAST CHANGED: 01/15/07
SECTION: 2000 TIME LAST CHANGED: 09:29:40

REQUESTER: ER
TEST CODE: INFO STSALL
TRACKING NO. GSFCREV06 KING2001 L004-4 L3521 L5915
L8108 L8212 R109-11 R2893
PRIORITY: MANDATORY
RATIONALE: RANGE SAFETY

1. DESCRIPTION: WALLOPS ISLAND (WLPS)

THE WALLOPS ISLAND STATION WILL BE UTILIZED FOR RANGE SAFETY AND CONTINUOUS 192/96 KBS S-BAND TELEMETRY DATA SUPPORT DURING LAUNCH. THIS SUPPORT INCLUDES:

(1) C-BAND RADAR METRIC DATA
(2) COMMUNICATIONS
(3) S-BAND TELEMETRY

TECHNICAL CONTACT: ER/MIKE GAWEL/321 853-8118

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: WFF WLPS
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 11/16/01
RESPONSE TRACKING: Z8134 Z8310

[PRD] DATABASE RECORD: 210558 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/16/01
INITIAL DATE: 06/30/89
ITEM NUMBER: T4GK DATE LAST CHANGED: 01/15/07
SECTION: 2000 TIME LAST CHANGED: 09:33:42

REQUESTER: JSC
TEST CODE: INFO STSALL TDRSS
TRACKING NO. GSFCREV06 KING2001 L8108 R109-11 R2886
PRIORITY: MANDATORY
RATIONALE: MISSION SUCCESS

CONTINUED

[PRD] DATABASE RECORD: 210558
ITEM NUMBER: T4GK

1. DESCRIPTION: TDRSS SUPPORT REQUIREMENT

KSC IS REQUIRED TO HAVE THE CAPABILITY TO TRANSMIT AND RECEIVE S-BAND AND KU-BAND TO/FROM TDRS VIA MILA STATION WHILE THE ORBITER IS IN THE OPF.

COORD: GSFC/CHERYL SMITH/301 286-7145
TECH CONTACT: JSC/WAYNE HALE/DA8/281 483-0693

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 11/16/01
RESPONSE TRACKING: Z8134

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: NE-E PH-L

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 11/16/01
RESPONSE TRACKING: Z8134

[PRD] DATABASE RECORD: 212016 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/16/01
INITIAL DATE: 06/30/89
ITEM NUMBER: T5GK DATE LAST CHANGED: 01/15/07
SECTION: 2000 TIME LAST CHANGED: 09:36:15

REQUESTER: JSC
TEST CODE: INFO STSALL TDRSS
TRACKING NO. KING2001 L8108 L906-8 R109-11 R2886
PRIORITY: MANDATORY
RATIONALE: MISSION SUCCESS

1. DESCRIPTION: TDRSS SUPPORT REQUIREMENT

MILA STATION IS REQUIRED TO HAVE AN ORBITER-TO-TDRS AND TDRS-TO-ORBITER RELAY CAPABILITY FOR BOTH S-BAND AND KU-BAND SYSTEMS WHILE THE ORBITER IS IN THE OPF.

COORD: GSFC/CHERYL SMITH/301 286-7145

CONTINUED

[PRD] DATABASE RECORD: 212016
ITEM NUMBER: T5GK

TECH CONTACT: JSC/WAYNE HALE/DA8/281 483-0693

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 11/16/01
RESPONSE TRACKING: GSFCREV06 Z8134

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: NE-E PH-L

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 11/16/01
RESPONSE TRACKING: Z8134

[PRD] DATABASE RECORD: 213432 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/16/01
INITIAL DATE: 04/23/91
ITEM NUMBER: T6EGS DATE LAST CHANGED: 11/16/06
SECTION: 2000 TIME LAST CHANGED: 07:13:19

REQUESTER: JSC
SUBREQUESTER: 94-03
TEST CODE: INFO STSALL
TRACKING NO. KING2001 L3960 L6515 L710-2 L804-2
L8108 L906-8 MK98 R0503-1 R109-11
R2886 R8703 R9102 SHAW94
PRIORITY: MANDATORY
RATIONALE: MISSION SUCCESS

1. DESCRIPTION: GSFC/STDN VERIFICATION TESTS (ER/SMC DET 12
(CERES)

EACH DOD STATION PROVIDING TELEMETRY, COMMAND, AND/OR TRACKING SUPPORT FOR THE SHUTTLE SPACECRAFT WILL BE REQUIRED TO PARTICIPATE IN GSFC/STDN VERIFICATION TESTS, WHERE THE FOLLOWING CASES OR CONDITIONS APPLY:

1. SIGNIFICANT HARDWARE, SOFTWARE OR CONFIGURATION CHANGES HAVE OCCURRED (INCLUDING COMMUNICATIONS LINKS WITH THE STATIONS).

CONTINUED

[PRD] DATABASE RECORD: 213432
ITEM NUMBER: T6EGS

2. SUPPORT REQUIREMENT CHANGES OR UNIQUE PAYLOAD REQUIREMENTS EXISTS.

3. MISSIONS ARE SEPARATED BY AN EXTENSIVE PERIOD OF TIME.

THESE TESTS ARE DOCUMENTED IN STDN NO. 532.VTR-STDN, VERIFICATION TESTING MANUAL, AND WILL BE SCHEDULED PRIOR TO THE JSC NETWORK VALIDATION TESTS.

COORD: GSFC/ANTHONY WILLIAMS/301 805-3459

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 11/16/01
RESPONSE TRACKING: Z8134 Z8704

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 11/16/01
RESPONSE TRACKING: GSFCREV06 Z8134 Z8704

SUPPLIER: SDTW AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 11/16/01
RESPONSE TRACKING: Z8134 Z8704

[PRD] DATABASE RECORD: 217892 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/16/01
INITIAL DATE: 01/29/91
ITEM NUMBER: K8K DATE LAST CHANGED: 06/06/07
SECTION: 2000 TIME LAST CHANGED: 09:54:27

REQUESTER: KSC
SUBREQUESTER: IT-D2 NE-E1
TEST CODE: 26002B INFO KSC MSBLS
S61E03

CONTINUED

[PRD] DATABASE RECORD: 217892
ITEM NUMBER: K8K

ASSOCIATED DOC: 26002
TRACKING NO. DB98 KING2001 L5207 L8108 R109-11
R3409 R3936
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR MSBLS SUPPORT AT KSC/SLF

1. DESCRIPTION: MSBLS FLIGHT TEST AT KSC

TEST CODE 26002B REFERS TO SUPPORT AT KSC FOR MSBLS-GS FLIGHT TEST AND INCLUDES:

1. DATA DISPOSITION (SUPPORTED BY TA-B2)
2. COMPUTER PROCESSING (SUPPORTED BY TA-B2)
3. FREQUENCY UTILIZATION (SCHEDULED BY TA-B2)
4. WEATHER FORECAST (DAILY FORCAST AVAILABLE AT AIRPORT)
5. PROVIDE FUEL FOR TEST AIRCRAFT (ARRANGED FOR BY PILOT)
6. PROVIDE GROUND POWER UNIT FOR TEST AIRCRAFT
   REF LLS5351, ITEM K1E, DBR 216207
7. PROVIDE A/C UNIT FOR TEST AIRCRAFT
   REF LLS5351, ITEM K2E, DBR 216429

TECHNICAL CONTACT: KSC/ROB FROSTROM/PH-F1/321 861-3718

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2 USK-116

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 11/16/01
RESPONSE TRACKING: Z8134

[PRD] DATABASE RECORD: 14595 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/16/01
INITIAL DATE: 05/01/90
ITEM NUMBER: T13GS DATE LAST CHANGED: 11/16/06
SECTION: 2000 TIME LAST CHANGED: 07:13:12

REQUESTER: JSC
TEST CODE: LAUNCH STSALL

ASSOCIATED DOC: 20007S

CONTINUED

[PRD] DATABASE RECORD: 14595
ITEM NUMBER: T13GS

TRACKING NO.	KING2001	L004-4	L005-11	L302-2	L304-2
	L3521	L3543	L5515	L5548	R0503-1
	R109-11	R26145			

1. DESCRIPTION: REMOTE TRACKING STATIONS (OAKHANGER, U.K. /NEW HAMPSHIRE)

PROVIDE CAPABILITY FOR OAKHANGER AND NEW HAMPSHIRE REMOTE TRACKING STATIONS (RTS), WHICH ARE PART OF THE AIR FORCE SATELLITE CONTROL NETWORK (AFSCN), TO SUPPORT ORBIT NO. 1 AS BACKUP TO TDRSS FOR ALL LAUNCH INCLINATIONS FOR WHICH THEY PROVIDE COVERAGE.

OAKHANGER
SUPPORT REQM'TS ARE: (1) COMMAND
(2) AIR-TO-GROUND VOICE (S-BAND ONLY)

NEW HAMPSHIRE
SUPPORT REQM'TS ARE: (1) COMMAND
(2) AIR-TO-GROUND VOICE (S-BAND ONLY)

COORDINATION: JSC/DV/ROBERT MARRIOTT/281 483-6879
JSC/DA8/WAYNE HALE/281 483-0693

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/16/01

RESPONSE TRACKING:	GSFCREV06	Z26110	Z26124	Z26155	Z3551
	Z5520	Z5701			

SUPPLIER: SDTW AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/16/01

RESPONSE TRACKING:	Z26124	Z26155	Z3575	Z3814	Z3855
	Z5520	Z5701			

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2000 - TEST REQUIREMENTS/SUPPORT PLANS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 16876 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/16/01
INITIAL DATE: 11/08/88
ITEM NUMBER: T14EK DATE LAST CHANGED: 06/06/07
SECTION: 2000 TIME LAST CHANGED: 09:54:44

REQUESTER: JSC
TEST CODE: INFO S0009.101 STSALL

ASSOCIATED DOC: 20009S
TRACKING NO. KING2001 L005-11 L2737 L3543 L8108
R109-11
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: CLEAR TEXT SCHEDULING MESSAGE

ON JSC TESTS WHICH DO NOT HAVE AN OR/OD TEST CODE, JSC WILL SCHEDULE THE SYSTEMS NEEDED FOR SUPPORT WITH A CLEAR TEXT SCHEDULING MESSAGE. THESE TESTS, WHICH MIGHT HAVE DIFFERENT CONFIGURATIONS EACH TIME THEY ARE RUN, ARE: RANGE SAFETY ASCENTS; JOINT INTEGRATED SIMULATIONS; POCC/JSC DATA FLOW TESTS; AIRCRAFT FLY-BY'S; AND TAL COMMUNICATIONS TESTS.

TECHNICAL CONTACT: JSC/GROUND CONTROLLER MANAGER/281 483-6879

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 11/16/01
RESPONSE TRACKING: Z8206

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: USK-216

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 11/16/01
RESPONSE TRACKING: Z2994 Z8134

[PRD] DATABASE RECORD: 17657 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/10/92
INITIAL DATE: 05/17/90
ITEM NUMBER: T15G DATE LAST CHANGED: 11/16/06
SECTION: 2000 TIME LAST CHANGED: 07:13:14

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2000 - TEST REQUIREMENTS/SUPPORT PLANS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 17657
ITEM NUMBER: T15G

REQUESTER:	JSC			
SUBREQUESTER:	JSC/DF24	TVPLAN		
TEST CODE:	ALS	DODALS	DODELS	EAFB
	ELS	KSC	LANDNG	STSALL
	TAL	WSSH		

ASSOCIATED DOC:	20026S	20027S	20028S		
TRACKING NO.	KING2001	L003-6	L005-8	L03-6-1	L201-4
	L204-1	L210-1	L2935	L3006	L3115
	L3538	L4926	L901-17	L903-9	L908-7
	R03-06-2	R109-11	R3422		

1. DESCRIPTION: SN SUPPORT FOR ORBITER LANDINGS

A. JSC REQUIRES THE SN TO PROVIDE BEST EFFORT COVERAGE OF ANY ORBITER LANDING THROUGH CREW EGRESS PLUS ONE (1) HOUR AFTER LANDING, FOR THE FOLLOWING NON-NORMAL LANDINGS:

1. TAL
2. ANY ELS, INCLUDING THE EAST COAST TWO ENGINE OUT ABORT CASE
3. DITCH CASES
4. AOA
5. RTLS

B. JSC REQUIRES THE SN TO PROVIDE BEST EFFORT COVERAGE OF ANY ORBITER LANDING THROUGH CREW EGRESS PLUS ONE (1) HOUR AFTER LANDING, FOR THE FOLLOWING NORMAL LANDINGS:

1. EOM - WSSH, KSC, EAFB

NOTE 1: STATE VECTORS WILL BE SUPPLIED PREMISSION BY D-TAPES OR PAPER PRODUCT AND REAL TIME ELECTRONIC UPDATE BY HOUSTON TRACK AS REQUIRED.

NOTE 2: SN SUPPORT WILL BE RELEASED BY MCC GC'S ASAP AFTER A NORMAL EOM.

CONTINUED

[PRD] DATABASE RECORD: 17657
ITEM NUMBER: T15G

TECHNICAL CONTACT: JSC/DF24/JOE FANELLI/281 483-0844
JFANELLI@EMS.JSC.NASA.GOV

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/10/92
RESPONSE TRACKING: Z2881 Z3006 Z3149 Z3317 Z3560
Z3851 Z4926

[PRD] DATABASE RECORD: 18651 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/16/01
INITIAL DATE: 05/22/89
ITEM NUMBER: K18GK DATE LAST CHANGED: 11/16/06
SECTION: 2000 TIME LAST CHANGED: 07:13:15

REQUESTER: KSC
SUBREQUESTER: KSC/PH-I KSC/PH-L
TEST CODE: STSALL
TRACKING NO. DB98 KING2001 L6208 L6804 R109-11
R2817
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR MILA SUPPORT TO KSC

1. DESCRIPTION: MILA SUPPORT TO KSC

KSC REQUIRES MILA SUPPORT AS SCHEDULED IN THE KENNEDY INTEGRATED CONTROL

SCHEDULE (KICS). CALL UP (REALTIME) SUPORT IS AVAILABLE MONDAY THRU FRIDAY, 0800 THRU MIDNIGHT EXCEPT DURING SHUTTLE MISSIONS WHEN MILA OPERATING HOURS MAY HAVE TO BE SHIFTED TO COVER ORBITAL PERIODS. DURING

SHUTTLE MISSIONS, CALL UP SUPPORT WILL BE ON A NON INTERFERENCE BASIS WITH SHUTTLE MISSION OPERATIONS, MAY REQUIRE 72 HOUR NOTIFICATION, AND MAY INCUR OVERTIME. CONTINUOUS SUPPORT, WHICH MAY INCLUDE 3RD SHIFT AND

WEEKENDS, WILL BE REQUIRED DURING LAUNCH COUNTDOWN AND LAUNCH (OMI S0007), TERMINAL COUNTDOWN DEMONSTRATION TEST (OMI S0017), LANDING AT DFRC (OMI S0026), AND LANDING AT KSC (OMI SOO28). POSSIBLE MISSION CONTINGENCY LANDING SUPPORT WILL BE REQUIRED FOR SCHEDULED UNIQUE KSC

CONTINUED

[PRD] DATABASE RECORD: 18651
ITEM NUMBER: K18GK

ORBITS FOR WHICH KSC IS DESIGNATED THE PRIME LANDING SITE - NOTIFICATION

ON THE KSC RECORDED STATUS (867-3900). FOUR HOUR NOTIFICATION OF AN ACTUAL CONTINGENCY LANDING WILL BE PROVIDED BY THE KSC/SPC DUTY OFFICER.

THE SPC DUTY OFFICER MAY BE CONTACTED AT 867-4910. OTHER OFF-SHIFT SUPPORT WHICH MAY BE REQUIRED WILL BE SCHEDULED 72 HOURS IN ADVANCE IN THE KICS AND WILL LIKELY INCUR OVERTIME.

THIS REQUIREMENT INCLUDES VOICE COMM, TLM, A/G VOICE, TV & COMMAND DOCUMENTED IN OTHER SECTIONS OF THIS PRD.

POC: KSC/TED MOSTELLER/PH-L/321 861-9307

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/16/01
RESPONSE TRACKING: GSFCREV06 Z28126 Z6215 Z6806

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-PH-L USK-299

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/16/01
RESPONSE TRACKING: Z5906 Z6806

[PRD] DATABASE RECORD: 18652 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/16/01
INITIAL DATE: 05/22/89
ITEM NUMBER: K19G DATE LAST CHANGED: 11/16/06
SECTION: 2000 TIME LAST CHANGED: 07:13:15

REQUESTER: KSC
SUBREQUESTER: KSC/PH-I KSC/PH-L
TEST CODE: STSALL
TRACKING NO. DB98 KING2001 R109-11 R2817 R7601
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR TDRSS SUPPORT FOR END TO END TESTING

CONTINUED

[PRD] DATABASE RECORD: 18652
ITEM NUMBER: K19G

1. DESCRIPTION: TDRSS SUPPORT FOR END TO END TESTS

KSC REQUIRES TDRSS (NETWORK) SUPPORT FOR END TO END TESTING CX 39 TO MILA TO MILA RELAY TO TDRS TO WHITE SANDS COMPLEX (WSC) TO GSFC TO MILA TO CX 39.

POC: KSC/TED MOSTELLER/PH-L/861-9307

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/16/01
RESPONSE TRACKING: GSFCREV06 Z28126

[PRD] DATABASE RECORD: 20563 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/16/01
INITIAL DATE: 03/28/91
ITEM NUMBER: E20GKT DATE LAST CHANGED: 11/16/06
SECTION: 2000 TIME LAST CHANGED: 07:13:15

REQUESTER: ER
TEST CODE: STSALL
TRACKING NO. KING2001 L3219 L3940 R109-11 R8402
PRIORITY: REQUIRED
RATIONALE: RANGE SCHEDULING INSTRUMENTATION

1. DESCRIPTION: C BAND SCHEDULED SUPPORT

THE LEAD RANGE SCHEDULING OFFICE DESIRES THAT ALL C BAND TRACKING SCHEDULE REQUESTS BE RECEIVED BY 1600Z ON TUESDAY TWO WEEKS PRIOR TO THE WEEK IN WHICH SUPPORT IS REQUIRED. AS A MINIMUM, SCHEDULE REQUESTS ARE REQUIRED NO LATER THAN 1600Z ON TUESDAY PRIOR TO THE WEEK IN WHICH THE SUPPORT IS REQUIRED.

TECH CONTACTS: RTS CONTRACTOR REP FOR 45 RANS/DOU
ER/MIKE GAWEL/321 853-8118
DSN 467-8650
FAX/ 321 853-8303/ DSN 467-8303

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)

CONTINUED

[PRD] DATABASE RECORD: 20563
ITEM NUMBER: E20GKT

RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/16/01
RESPONSE TRACKING: Z3230 Z3982

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: FF-RC

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/16/01
RESPONSE TRACKING: Z3230 Z3982

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/16/01
RESPONSE TRACKING: Z3601 Z3982

[PRD] DATABASE RECORD: 21094 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/20/90
INITIAL DATE: 03/20/90
ITEM NUMBER: T21GX DATE LAST CHANGED: 03/20/07
SECTION: 2000 TIME LAST CHANGED: 07:45:44

REQUESTER: JSC
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S 20028S
TRACKING NO. KING2001 L3119 L910-8 R109-11

1. DESCRIPTION: MILA/DFRC SUPPORT

IF THE LANDING IS AT KSC OR EAFB, MILA AND/OR DFRC WILL BE REQUIRED
FOR POST-LANDING MCC SUPPORT UNTIL SUCH TIME AS RELEASED BY MCC.

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/20/90
RESPONSE: GSFC WILL SUPPORT DATA FLOW FOR UP TO 105 HRS.

CONTINUED

[PRD] DATABASE RECORD: 21094
ITEM NUMBER: T21GX

RESPONSE TRACKING: GSFCREV06 Z3141

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/20/90
RESPONSE: DRYDEN WILL SUPPORT DATA FLOW FOR UP TO 105 HRS.

RESPONSE TRACKING: Z3141

[PRD] DATABASE RECORD: 520018 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/30/92
INITIAL DATE: 06/02/92
ITEM NUMBER: T22G DATE LAST CHANGED: 11/16/06
SECTION: 2000 TIME LAST CHANGED: 07:13:26

REQUESTER: JSC
SUBREQUESTER: JSC/DV14
TEST CODE: STSALL TDRSS
TRACKING NO. KING2001 L206-1 L210-1 L5005 L5332
R0404-3 R109-11

1. DESCRIPTION: SPACE NETWORK CONFIGURATION TEST

THE SN IS TO PROVIDE END-TO-END TEST SERVICES FROM THE WHITE SANDS COMPLEX (WSC) TO THE JSC MCC FOR SHUTTLE AND SHUTTLE PAYLOAD DATA RATES, INCLUDING THE ABILITY TO INJECT TAPE DATA SERVICES AT WSC.

REF. FLS SECT 2000, ITEM T45GZ, DBR 520128.

TECH CONTACT: JON FOLLIN TDRSS/ 505 527-7009

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/30/92
RESPONSE TRACKING: Z5027

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2000 - TEST REQUIREMENTS/SUPPORT PLANS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 568901 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/03/05
INITIAL DATE: 01/08/03
ITEM NUMBER: G23T DATE LAST CHANGED: 12/15/06
SECTION: 2000 TIME LAST CHANGED: 10:32:17

REQUESTER: GSFC
SUBREQUESTER: MILA WSC
TEST CODE: ALPHSE STSALL
TRACKING NO. L107-1 R0503-1
PRIORITY: REQUIRED
RATIONALE: REQUIRED FOR ANTENNA MANAGEMENT, TRANSPONDER DISPOSITION BY END USERS.

1. DESCRIPTION: CUSTOMER ANCILLARY SERVICE TO GSFC

JSC IS REQUIRED TO TRANSMIT THE CUSTOMER ANCILLARY SERVICE (CAS) DATA TO WSC, GSFC NIC FOR NETWORK OPERATIONS, SMC DET 12 KSC CD&SC/MILA (VIA GSFC) FOR THE DURATION OF EVERY SPACE SHUTTLE MISSION, LONG DURATION SIMULATIONS, AND JOINT INTEGRATION SIMULATIONS (JIS).

GSFC COORDINATION: 451/GSFC/JAMES BANGERTER/301 286-7306

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/07/05
RESPONSE TRACKING: Z107-11

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2100 - METRIC DATA

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 233754 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/16/01
INITIAL DATE: 10/10/91
ITEM NUMBER: E3G DATE LAST CHANGED: 11/16/06
SECTION: 2100 TIME LAST CHANGED: 07:13:20

REQUESTER: ER
SUBREQUESTER: 45 SPW/SEO
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 L2839 L3514 L3940 L5915
L5917 R109-12 R2893 R4423 R4503
PRIORITY: MANDATORY
RATIONALE: RANGE SAFETY

1. DESCRIPTION: RANGE SAFETY DISPLAYS

WLPS IS REQUIRED IN SUPPORT OF RANGE SAFETY UTILIZING EXISTING DISPLAY CAPABILITIES.

NOTE: WHEN THE ORBITER IS IN THE ENCRYPTED DOWNLINK MODE, MILA IS REQUIRED TO DECOM AND DISPLAY IN REAL TIME SELECTED VEHICLE PERFORMANCE AND FLIGHT TERMINATION SYSTEM DATA FROM THE S-BAND TELEMETRY SYSTEM.

TECHNICAL CONTACT: ER/MIKE GAWEL/321 853-8118

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA WFF
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/16/01
RESPONSE TRACKING: GSFCREV06 Z28113 Z2877 Z3524 Z3982
Z4425 Z4517 Z5549 Z5920

[PRD] DATABASE RECORD: 309926 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/08/02
INITIAL DATE: 03/02/90
ITEM NUMBER: H4.1E DATE LAST CHANGED: 01/24/07
SECTION: 2100 TIME LAST CHANGED: 10:25:04

REQUESTER: MSFC
SUBREQUESTER: MS165 VALO92004 VALOE

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2100 - METRIC DATA

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 309926
ITEM NUMBER: H4.1E

TEST CODE: CCAFS RETREV STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 MK98 SCRUB06
PRIORITY: REQUIRED
RATIONALE: REQUIREMENT TO TRACK SRB'S AFTER SEPARATION

1. DESCRIPTION: SRB POST SEPARATION

LAND BASED RADAR IS REQUIRED TO TRACK SRBS
FROM SRB/ET SEPARATION TO LOSS OF SIGNAL.

KSC TECHNICAL POC: VIPUL PATEL/USK-841
USA-SRB EN-KA/ARF
321-867-9685

MSFC POC: MSFC/MIKE CARPENTER
USA-SRBE/USM
256 544-8564

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/08/02

[PRD] DATABASE RECORD: 310118 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/94
INITIAL DATE: 05/04/90
ITEM NUMBER: H5.1EK DATE LAST CHANGED: 01/25/07
SECTION: 2100 TIME LAST CHANGED: 10:54:17

REQUESTER: MSFC
SUBREQUESTER: MS166 VALO92004 VALOE
TEST CODE: RETREV STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 L3033 L3223 L3529 MK98
ML002-90 R109-12 R3102 R3105 R6551

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2100 - METRIC DATA

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 310118
ITEM NUMBER: H5.1EK

SCRUB06
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: DATA REDUCTION OF SRB POST SEPARATION
TRACKING LAND BASED RADARS (CNVC MLMC): L+14 DAYS

CORRECTED MEASURED TAER TAB AND 3-1/2 INCH FLOPPY MAIL
TO USA-SRB AT L+14 DAYS.

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	CORRECT MEAS. TAER	1	L+14 DAYS	VIPUL PATEL/USK-841 USA-SRB EN-KA/ARF 321 867-9685 CSR TO MAIL DATA TO USA-SRB
2	CORRECT MEAS. TAER TAPE	1	L+14 DAYS	" "

POC: ER/MIKE GAWEL/321-853-8118
USA-SRB/USK-841/VIPUL PATEL/321-867-9685
MSFC/MIKE CARPENTER/256 544-8564

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/11/95
RESPONSE TRACKING: Z3119 Z3131 Z3224 Z3531 Z6550
Z7001

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-NE-A USK-654

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/26/94
RESPONSE TRACKING: Z3036 Z3103 Z3131 Z3224 Z3531

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2100 - METRIC DATA

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 310118
ITEM NUMBER: H5.1EK

Z6550 Z6910

[PRD] DATABASE RECORD: 22840 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/23/06
INITIAL DATE: 08/28/90
ITEM NUMBER: H5.2EK DATE LAST CHANGED: 01/25/07
SECTION: 2100 TIME LAST CHANGED: 10:59:03

REQUESTER: MSFC
SUBREQUESTER: MS017 VALO92004 VALOE
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 L4104 MK98 R109-12 R9304
SCRUB06
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: SRB RADAR BEACON TRACKING SYSTEM (SRBTS)
DATA FROM AOS TO LOS

DATA DISPOSITION:

REF.	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	VERBAL CONFIRMATION OF LAUNCH THAT EACH SRBTS IS BEING RECEIVED	1	T-2 HRS OF LAUNCH	ER TO REPORT OVER OIS-175 TO KSC AND MSFC/HOSC AND REPORT EXCEPTIONS DURING LAUNCH COUNTDOWN AFTER INITIAL ANNOUNCEMENT
2	SRBTS SIGNAL STRENGTH VS. TIME PLOTTED ON DISK RADAR LOGS FROM SRBTS TRACKING STATIONS	1	NO LATER THAN 15 DAYS	MIKE LANKES/USA-SRB ENGR. TEL 321 867-7030 (NASA DATA COURIER WILL DELIVER TO USA DATA STORAGE AT USK-840).

COORD: ER/MIKE GAWEL/321 853-8118
KSC/NE-E2/JAMES SILVIANO/321 861-3727

CONTINUED

[PRD] DATABASE RECORD: 22840
ITEM NUMBER: H5.2EK

KSC/USK-840/MIKE LANKES/321-867-7030

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/23/06
RESPONSE TRACKING: Z4117 Z9304

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-NE-C2 USK-654

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/23/06
RESPONSE TRACKING: Z4117 Z9304

[PRD] DATABASE RECORD: 22907 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/08/02
INITIAL DATE: 08/28/90
ITEM NUMBER: H5.3K DATE LAST CHANGED: 11/07/06
SECTION: 2100 TIME LAST CHANGED: 12:13:17

REQUESTER: MSFC
SUBREQUESTER: MS017
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20017S 25009S
TRACKING NO. KING2001 L4104 MK98 R109-12
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: OPEN LOOP READOUTS

MSFC REQUIRES OPEN LOOP READOUTS FROM THE KENNEDY SPACE CENTER FREQUENCY CONTROL ANALYSIS (FCA) VAN DURING THE CDDT, FINAL ORDNANCE INSTALLATION, DURING LAUNCH COUNTDOWN (APPROXIMATELY L-6 1/2 HOURS) AND ANY TIME A TRANSPONDER READOUT MEASUREMENT IS TAKEN OF THE SRB RADAR BEACON(S).

DATA DISPOSITION:

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2100 - METRIC DATA

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 22907
ITEM NUMBER: H5.3K

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	FCA (VAN) OPEN LOOP READOUTS	1	48 HRS	TELEPHONE OR FAX TO MIKE LANKES/USA-SRB/USK-840 TEL 321 867-7030 FAX 321 867-9829

TECHNICAL CONTACT: KSC/USK-840/MIKE LANKES/321-867-7030

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: BR-D2-A KA91-T918

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/09/02
RESPONSE TRACKING: Z4117

[PRD] DATABASE RECORD: 243498 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/19/01
INITIAL DATE: 06/26/89
ITEM NUMBER: E7GK DATE LAST CHANGED: 11/16/06
SECTION: 2100 TIME LAST CHANGED: 07:13:20

REQUESTER: ER
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 R109-12 R2893
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: S-BAND TRACK DATA

WHEN OPERATING IN THE GN COMMUNICATIONS MODE, MILA STATIONS SUPPORTING LAUNCH AT KSC ARE REQUIRED TO PROVIDE TIME RANGE, ANGLE, AND DOPPLER DATA IN THE STDN MDDF FORMAT AT TEN SAMPLES-PER-SECOND TRANSMITTED TO ER ROCC ON 2.4KB/S CIRCUITS. THE MAXIMUM DELAY BETWEEN THE TIME TAG ON HIGH SAMPLE RATE DATA POINT AND TIME OF RECEIPT OF THE DATA POINT AT CCC MUST BE WITHIN 0.4 SECONDS. THESE DATA WILL BE DISPLAYED AT THE RANGE CONTROL CENTER IN SUPPORT OF RANGE SAFETY.

CONTINUED

[PRD] DATABASE RECORD: 243498
ITEM NUMBER: E7GK

POC: ER/MIKE GAWEL/321 853-8118

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/19/01
RESPONSE TRACKING: GSFCREV06 Z2877

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/19/01
RESPONSE TRACKING: Z2877

[PRD] DATABASE RECORD: 246625 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/19/01
INITIAL DATE: 07/26/89
ITEM NUMBER: K8G DATE LAST CHANGED: 01/15/07
SECTION: 2100 TIME LAST CHANGED: 10:03:07

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L
TEST CODE: RTLS STSALL

ASSOCIATED DOC: 20028S
TRACKING NO. DB98 GSFCREV06 KING2001 L2831 L8714
R109-12 R2843
PRIORITY: MANDATORY
RATIONALE: ORBITER ACQUISITION DATA REQUIRED DURING KSC LANDINGS.

1. DESCRIPTION: ORBITER ACQUISITION DATA FOR KSC SLF TV CAMERAS

THE MILA GN STATION IS REQUIRED TO PROVIDE ORBITER ACQUISITION DATA DERIVED FROM S-BAND RANGING DATA AND COORDINATE TRANSFORMATION. DATA IS REQUIRED DURING KSC LANDINGS, INCLUDING RTLS TO THE ENHANCE PHOTO OPTICAL CONTROL SYSTEM CONSOLE (EPOCS) CONSOLE D, ROOM 2P10, LCC, BLDG. K6-900. AZ AND EL DISPLAY DATA IS TO INDICATE ORBITER POSITION RELATIVE TO EACH OF THE SLF TV TOWERS AND IS USED TO AID

CONTINUED

[PRD] DATABASE RECORD: 246625
ITEM NUMBER: K8G

THE PHOTO TRACKER OPERATORS IN MANUAL TRACKING OF THE ORBITER.
AZ AND EL DISPLAYS ARE TO BE PROVIDED BY GSFC.

TECH CONTACTS: MILA/OPS SUPPORT/321 867-3518
KSC/TED MOSTELLER/PH-L/321 861-9307

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/19/01
RESPONSE TRACKING: Z28106 Z2837 Z8902

[PRD] DATABASE RECORD: 251858 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/26/89
INITIAL DATE: 06/26/89
ITEM NUMBER: G9EGJ DATE LAST CHANGED: 11/16/06
SECTION: 2100 TIME LAST CHANGED: 07:13:21

REQUESTER: GSFC
SUBREQUESTER: GSFC/531 VALO92001 VALOE
TEST CODE: S51E01 STSALL
TRACKING NO. KING2001 MK98 R109-12 R2850 R2876
PRIORITY: MANDATORY
RATIONALE: FORMAT PER STDN DOC. 724

1. DESCRIPTION: METRIC DATA FORMATS

THE FORMATS FOR EXCHANGE OF METRIC DATA (ACQUISITION AND TRACKING)
BETWEEN THE DOD AND GSFC WILL BE AS SPECIFIED IN STDN DOCUMENT
NO. 724, TRACKING AND ACQUISITION HANDBOOK.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/26/89
RESPONSE TRACKING: Z2843 Z2861

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2100 - METRIC DATA

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 251858
ITEM NUMBER: G9EGJ

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/26/89
RESPONSE TRACKING: Z2843 Z2861

SUPPLIER: JPL AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/26/89
RESPONSE TRACKING: Z2861

[PRD] DATABASE RECORD: 253735 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/19/01
INITIAL DATE: 06/26/89
ITEM NUMBER: E11G DATE LAST CHANGED: 01/15/07
SECTION: 2100 TIME LAST CHANGED: 10:03:39

REQUESTER: ER
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. GSFCREV06 KING2001 R109-12 R2893 R9507
PRIORITY: MANDATORY
RATIONALE: RANGE SAFETY

1. DESCRIPTION: C-BAND REQUIREMENTS

ER RANGE SAFETY REQUIRES DATA FROM 2 OF 3 WLPS RADARS
OVER SEPARATE 2.4 KB/S LINES TO THE ER ROCC. MAXIMUM DELAY TIME
BETWEEN THE TIME TAG ON A HIGH SAMPLE RATE DATA POINT AND THE TIME
OF RECEIPT AT ROCC MUST BE WITHIN 0.4 SECONDS.

POC: ER/MIKE GAWEL/321 853-8118

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: WFF
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/19/01

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2100 - METRIC DATA

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 253735
ITEM NUMBER: E11G

RESPONSE TRACKING: Z2877 Z9507

[PRD] DATABASE RECORD: 255179 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/19/01
INITIAL DATE: 03/28/91
ITEM NUMBER: E12EHT DATE LAST CHANGED: 11/07/06
SECTION: 2100 TIME LAST CHANGED: 12:19:09

REQUESTER: ER
SUBREQUESTER: I-JDMTA
TEST CODE: CCAFS INFO STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 L3940 L8108 R109-12 R2893
R9311
PRIORITY: MANDATORY
RATIONALE: RANGE SAFETY

1. DESCRIPTION: C-BAND REQUIREMENTS

MLA (19.14 AND 19.39), PAT (0.14), CCAFS (1.16 AND 19.39 MOTR),
AND JDMTA (28.14), C-BAND RADARS ARE REQUIRED BY ER RANGE SAFETY
TO PROVIDE TRACKING DATA FOR REALTIME TRAJECTORY MONITORING.

POC: ER/MIKE GAWEL/321 853-8118

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 11/19/01
RESPONSE TRACKING: Z8209 Z9313

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 11/19/01
RESPONSE TRACKING: Z8134

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 11/19/01

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2100 - METRIC DATA

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 255179
ITEM NUMBER: E12EHT

RESPONSE TRACKING: Z8134 Z9313

[PRD] DATABASE RECORD: 256439 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/19/01
INITIAL DATE: 06/26/89
ITEM NUMBER: E13EK DATE LAST CHANGED: 06/05/07
SECTION: 2100 TIME LAST CHANGED: 10:09:25

REQUESTER: ER
SUBREQUESTER: VALO92003 VALOE
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. ERLSR9405 KING2001 R109-12 R2893 R6506
PRIORITY: MANDATORY
RATIONALE: RANGE SAFETY

1. DESCRIPTION: OPTICAL REQUIREMENTS

FROM LIFT-OFF TO LOSS OF VIEW, A RANGE SAFETY REQUIREMENT EXISTS TO TRANSMIT TRACKING DATA FROM AT LEAST FOUR OPTICAL TRACKING STATIONS (CONTRAVES, ROTI, OR MIGOR) TO THE CCC FOR COMPUTATION AND DISPLAY OF BOTH PRESENT POSITION AND IMPACT PREDICTION DATA.

POC: ER/MIKE GAWEL/321 853-8118

PADD ITEMS M1,2,3,4 E204,207

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/19/01
RESPONSE TRACKING: Z2877 Z6504

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2 KICS-700

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/19/01
RESPONSE TRACKING: Z2877 Z6530

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2100 - METRIC DATA

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 256439
ITEM NUMBER: E13EK

[PRD] DATABASE RECORD: 205863 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/26/91
INITIAL DATE: 05/03/90
ITEM NUMBER: G15E DATE LAST CHANGED: 06/05/07
SECTION: 2100 TIME LAST CHANGED: 10:09:43

REQUESTER: GSFC
SUBREQUESTER: GSFC/530 VALO92001 VALOE
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. L3516 MK98 R2850 R4411
PRIORITY: MANDATORY
RATIONALE: REPORT OF SUPPORT PROVIDED BY THE DOD

1. DESCRIPTION: DOD TRACKING SUPPORT

PROVIDE GSFC NETWORK DIRECTOR,VIA E-MAIL WITHIN
3 WORKDAYS OF WOW, A REPORT COVERING DOD ELEMENT
SUPPORT DURING THE MISSION AS FOLLOWS:

1. EQUIPMENT PROBLEMS.
2. DOCUMENTATION PROBLEMS.
3. COMMUNICATION PROBLEMS.
4. PROCEDURES PROBLEMS.
5. MISCELLANEOUS.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/26/91
RESPONSE TRACKING: Z2843 Z3523 Z3824 Z4408

[PRD] DATABASE RECORD: 19016 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/14/99
INITIAL DATE: 09/27/89
ITEM NUMBER: T22EK DATE LAST CHANGED: 06/05/07
SECTION: 2100 TIME LAST CHANGED: 10:10:35

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2100 - METRIC DATA

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 19016
ITEM NUMBER: T22EK

REQUESTER: JSC
SUBREQUESTER: JSC/KX VALO92004 VALOE
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 L109-6 L3416 L408-2 L6402
L806-1 L906-12 R109-12 R2888 R4409
R7101 R9304 SHAW94

1. DESCRIPTION: ALL SOURCES BEST ESTIMATE TRAJECTORY DATA

JSC REQUIRES, ON REQUEST, SHUTTLE ASCENT POSITION & VELOCITY DATA IN BOTH THE RIGHT-HAND CARTESIAN COORDINATE SYSTEM AND GEODETIC SYSTEM REFERENCED TO THE LAUNCH PAD. THE X-AXIS OF THE CARTESIAN COORDINATE SYSTEM WILL BE ALONG THE LAUNCH AZIMUTH AXIS. THE GEODETIC SYSTEM SHOULD BE BASED ON THE WORLD GEODETIC SYSTEM-84 (WGS-84). THE DATA SAMPLING RATE SHOULD BE 20 PTS/SEC (SUBJECT TO CHANGE FOLLOWING DATA EVALUATION). THE DATA WINDOW STARTS AT LAUNCH AND ENDS AT MECO.

TECH CONTACTS: JSC/SN5/GREGORY BYRNE/281 483-0500
PAFB/FRANK PANNEL/321 494-9778

COORDINATION: JSC/MV3/ANITA MAGILL/281 483-3341
ER/MIKE GAWEL/321 853-8118

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	TAPE FORMAT (9 TRACK, 16 BPI, IBM)	1	ON REQUEST	JSC/SN5/GREGORY BYRNE/281 483-0500 (NASA PICKUP AT CSR DR&R, BLDG 557 AND DELIVER TO USK-719 ATTN: DORY BEAZLEY COMPLEX 19 CCAS FOR SHIPPING)

NOTE: CALL MIKE GAWEL, 321 853-8118 TO REQUEST THIS DATA ITEM.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2100 - METRIC DATA

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 19016
ITEM NUMBER: T22EK

SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/14/99
RESPONSE TRACKING: Z2872 Z3456 Z4407 Z6402 Z7001
Z9304

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-PH-K-A USK-654

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/14/99
RESPONSE TRACKING: Z3456 Z4407 Z6402 Z7001 Z9304

[PRD] DATABASE RECORD: 21096 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/16/92
INITIAL DATE: 03/20/90
ITEM NUMBER: T25E DATE LAST CHANGED: 06/05/07
SECTION: 2100 TIME LAST CHANGED: 10:10:54

REQUESTER: JSC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 L3119 L4518 L910-8 R109-12

1. DESCRIPTION: C-BAND REQUIREMENTS

ER WILL PROVIDE JSC TRACK/FDDD WITH A PRE-LAUNCH EQUIPMENT STATUS REPORT AT LAUNCH MINUS 2 DAYS. MESSAGE WILL ADDRESS:

1. ANOMALIES FROM PREVIOUS MISSION
2. STATUS AND EFFECT ON CURRENT MISSION
3. RESOLUTION OF ANY ANOMALIES

A STATUS REPORT IS REQUIRED WHETHER OR NOT THERE ARE ANY ANOMALIES TO DISCUSS.

DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2100 - METRIC DATA

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 21096
ITEM NUMBER: T25E

T1	TRK-C-BAND EQUIPMENT STATUS REPORT (ESR)	1 OR 2 CY	LAUNCH -2 DAYS	JSC 1. DJ4 OPERATION & NETWORK INTEGRATION OFFICE 2. DM4/NAV 3. ASTC/B33F-555 TRACK UNIT

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/16/92
RESPONSE TRACKING: Z3141 Z4535

[PRD] DATABASE RECORD: 580599 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/03/05
INITIAL DATE: 03/03/05
ITEM NUMBER: T26E DATE LAST CHANGED: 06/06/06
SECTION: 2100 TIME LAST CHANGED: 09:17:20

REQUESTER: JSC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. L05-3-1 R0505-6

1. DESCRIPTION: RADAR DATA FOR ASCENT DEBRIS ANALYSIS

ALL ER RADARS WITH FULL RANGE VIDEO RECORDING CAPABILITY WILL RECORD SHUTTLE ASCENT FROM ACQUISITION OF SIGNAL TO LOSS OF SIGNAL. ER WILL MAINTAIN THE FULL RANGE VIDEO FOR THE LIFE OF THE SHUTTLE PROGRAM.

TECHNICAL CONTACT: MICHAEL GAWEL/1ROPS/DOUF/321 853-8118
MICHAEL.GAWEL@PATRICK.AF.MIL

NOTE: FULL RANGE VIDEO (FRV) WILL BE RECORDED ON VHS TAPE AT RADARS 0.14, 19.14, AND 28.14 FOR EACH LAUNCH. FRV

CONTINUED

[PRD] DATABASE RECORD: 580599
ITEM NUMBER: T26E

RECORDS WILL BEGIN AT AOS MINUS 30 SECONDS AND CONTINUE UNTIL LOS. DURING FLIGHT, RECEIVED REFERENCE CHANNEL (TARGET RETURN) VIDEO (ECHO DATA) WILL BE RECORDED ON THE FRV SUBSYSTEM. RECORDING CONFIGURATION WILL BE BASED ON RANGE SAFETY TRACKING AND VEHICLE RF (RADIATION LIMIT) REQUIREMENTS WITHOUT OPTIMIZATION FOR DEBRIS DETECTION UNLESS ADDITIONAL WRITTEN REQUIREMENTS ARE RECEIVED AND COORDINATED WITH ER.

PRE-OPERATION AND POST-OPERATION CALIBRAITON WILL BE PERFORMED ACCORDING TO RANGE OPERATING INSTRUCTIONS (ROI)10-07-05. THE POST-OPERATION CALIBRATION WILL INCLUDE REFERENCE SIGNALS (CALIBRATED STEPS) RECORDED IN CONJUNCTION WITH THE STANDARDS (OD/ROI SPECIFIED) POST-CALIBRATION PROCESS AND WILL COVER (AS A MINIMUM) THE ENTIRE RANGE OF SIGNAL-TO-NOISE LEVELS OBSERVED DURING ACTUAL TRACK OR INCLUSIVE OF THE SPECIFIC SYSTEM DYNAMIC RANGE. EACH RADAR WILL PROVIDE REFERENCE RECORDINGS (CALIBRATED STEPS) FOR ALL TRACKING CONFIGURATION UTILIZED DURING MISSION SUPPORT, I.E. - SKIN/BEACON GATE, SINGLE/DUAL LOCAL OSCILLATORS (SIMO), RF AMPLIFIERS ON/OFF AND EACH PULSE WIDTH. RADAR OPERATORS WILL PRE-SELECT BORESIGHT TOWER (BST) POSITIONS 4 OR 6 AND SELECT LOAD DRIVE IN ORDER TO SYNCHRONIZE THE FRV SUBSYSTEM WITH THE PRE-RANGE GATE TRIGGER. TAPE MOTION WILL BE CONTINUOUS FOR EACH MODE UTILIZED DURING LIVE TRACK. ALL MODE CALIBRATION RECORDS WILL BEGIN WITH A 30 SECOND LEADER OF NOISE (NO TARGET GATED) AT THE START OF EACH MODE BEING POST-CALIBRATED FOR TIMING SYCHRONIZATION. ACCOMPANIED BY A 5 SECOND RUN INTERVAL FOR EACH SIGNAL/NOISE (S/N) STEP FROM NOISE THROUGH 65 DB (OR MAXIMUM SIGNAL RECEIVED). FRV TAPES WILL BE PROCESSED USING THE ER RADAR VIDEO PROCESSING SYSTEM (RVPS) POST-LAUNCH. RVPS WILL BE USED TO GENERATE RANGE TIME INTENSITY (RTI) CHARTS FOR EACH RADAR ADDITIONAL DATA PRODUCTS MAY BE GENERATED USING RVPS OR TECHNICAL CONSULTATION PROVIDED UPON RECEIPT OF ADDITIONAL WRITTEN REQUIREMENTS.

ADDITIONALLY, THE RADAR 19.39 MOTR DATA ANALYSIS FACILITY (MDAF) WILL BE UTILIZED TO GENERATE RTI PLOTS FOR ALL TARGETS TRACKED AS REQUIRED. PLOTS WILL BE DERIVED FROM THE RECORDED MISSION

CONTINUED

[PRD] DATABASE RECORD: 580599
ITEM NUMBER: T26E

DATA MEDIA. THE SITE WILL COPY THE MISSION ORIGINAL RECORDING AND RETAIN THE COPY ON-SITE FOR THE PURPOSE OF GENERATING THE DATA PLOTS. THE MISSION ORIGINAL WILL BE TURNED IN AS PART OF THE NORMAL SITE DATA TURN-IN PACKAGE.

MOTR (RADAR 19.39) PLOTS WILL BE GENERATED AT THE MDAF FACILITY AT THE 19.39 LOCATION (KSC).

ALL FRV RECORDS WILL BE RETAINED UNTIL THE END OF THE SHUTTLE PROGRAM. THE ORIGINAL FRV TAPES REMAIN THE PROPERTY OF THE ER.

EVERY ATTEMPT WILL BE MADE TO CONDUCT BOTH PRE AND POST-MISSION SPERE TRACKS. HOWEVER DUE TO VERY DEMANDING IN-COUNT REQUIREMENTS ONLY A PRE OR POST MISSION SPHERE TRACK MAY BE ACCOMPLISHED AT 0.14 AND/OR 19.14. RADAR 19.39 WILL BE REQUIRED FOR ACQUISITION. 6" REFLECTIVE SPHERE (-18DBSM RADAR CROSS-SECTION) WILL BE SUSPENDED FROM LOFTING BALLOON WITH 200 FOOT TETHER TO FACILITATE DISCRIMINATION BETWEEN BALLOON AND SPHERE. DURING SPHERE TRACK, FRV WILL BE RUN AT 0.14 19.14. RECORD DATA BEGINNING AT A SLANT RANGE OF 30 KM. TRACK SHOULD BE IN 5 USEC PULSEWIDTH, FULL TRANSMITTER POWER AND RF AMPS ON. FULL RANGE VIDEO RECORDING RTI SHOULD BEGIN AT THIS TIME AND RUN CONTINUOUSLY UNTIL MAXIMUM SLANT RANGE OF SPHERE IS ACHIEVED. TURN ON OTHER RECORDERS AND THE RADAR TRACK FILE IN 30 SECOND BURSTS AT EACH 1 KM SLANT RANGE INCREMENT UNTIL MAXIMUM SLANT RANGE OF THE SPHERE IS OBTAINED. PROVIDE RASP TAB FOLLOWING EACH RECORDING INTERVAL.

THIS REQUIREMENT STATES FOR SHUTTLE ASCENT. THE ER ASSUMES THIS IS NOT A REQUIREMENT FOR SHUTTLE LANDING OPPORTUNITIES AT KSC FACILITY.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 06/14/05
RESPONSE: SEE NOTE OF REQUIREMENT TEXT.

CONTINUED

[PRD] DATABASE RECORD: 580599
ITEM NUMBER: T26E

[PRD] DATABASE RECORD: 588898 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/17/06
INITIAL DATE: 08/17/06
ITEM NUMBER: T27E DATE LAST CHANGED: 09/22/06
SECTION: 2100 TIME LAST CHANGED: 07:04:21

REQUESTER: JSC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. L06-8-2 R0609-2

1. DESCRIPTION: RADAR PHASING SLOTS FOR NASA ASCENT DEBRIS RADAR

ALLOCATE RADAR PHASING SLOTS FOR NASA C-BAND DEBRIS RADAR AT NCAR (NDRC-1), NARROWBAND AND WIDEBAND. USE AUTOMATIC PHASING TO ENSURE TRANSMITTERS ARE SEQUENCED TO PREVENT INTERFERENCE.

POINT OF CONTACT: JSC/MS/TONY GRIFFITH/281 244-5813
ER/1 ROPS/DOUF/MICHAEL GAWEL/321 853-8118

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/13/06

[PRD] DATABASE RECORD: 588899 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/26/07
INITIAL DATE: 08/17/06
ITEM NUMBER: T28E DATE LAST CHANGED: 01/29/07
SECTION: 2100 TIME LAST CHANGED: 08:22:48

REQUESTER: JSC
SUBREQUESTER: JSC/MS
TEST CODE: STSALL
TRACKING NO. L06-8-2 L07-1-4 R0609-2 R0701-8

1. DESCRIPTION: RADAR CALIBRATION FOR NASA ASCENT DEBRIS RADAR

SELECT EASTERN RANGE RADARS TRACK BALLOON BORNE PRECISION CALIBRATION

CONTINUED

[PRD] DATABASE RECORD: 588899
ITEM NUMBER: T28E

SPHERE RELEASED FROM THE CCAFS WEATHER STATION PRE- AND POST LAUNCH FOR CALIBRATION PURPOSES.

THREE SPHERES, THE FIRST LAUNCHED AT A MUTUALLY AGREEABLE TIME BETWEEN L-10 DAYS AND L-7 DAYS, THE SECOND ON L-1 DAY, AND THE THIRD LAUNCHED NO LATER THAN 3 HOURS POST-ASCENT, ARE REQUIRED.

THE OPTIMUM CONFIGURATION FOR THESE THREE EVENTS IS A 12 INCH DIAMETER ALUMINUM SPHERE, SUSPENDED FROM A 400 FOOT RIBBON TETHER.

PROVIDE 2.4 KB/S EFG ACQUISITION DATA TO THE NASA C-BAND DEBRIS RADAR AT NDRC-1, AND INCLUDE THE NDRC-1 OPERATOR ON RELEASE SCHEDULE DISTRIBUTION, SO THAT IT CAN SUPPORT THESE ACTIVITIES ON A NON-INTERFERENCE BASIS.

POINT OF CONTACT: JSC/MS/TONY GRIFFITH/281 244-5813
ER/1 ROPS/DOUF/MICHAEL GAWEL/321 853-8118

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/26/07

[PRD] DATABASE RECORD: 588900
DOCUMENT ID: LLS
ITEM NUMBER: T29E
SECTION: 2100

REQUIREMENT STATUS: APPROVED
APPROVAL DATE: 08/17/06
INITIAL DATE: 08/17/06
DATE LAST CHANGED: 10/20/06
TIME LAST CHANGED: 08:29:15

REQUESTER: JSC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. L06-8-2 R0609-2

1. DESCRIPTION: SOUTHERN (NEAR SHORE) X-BAND VESSEL POSITION

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2100 - METRIC DATA

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 588900
ITEM NUMBER: T29E

REVIEW ISP PROVIDED FOR THE X-BAND NEAR-SHORE VESSEL. FOR ISS SHUTTLE MISSIONS, THERE SHOULD BE LITTLE VARIATION IN THE SHIP POSITION FROM FLIGHT-TO-FLIGHT, ALTHOUGH THE HOST VESSEL MAY CHANGE, BASED ON AVAILABILITY.

POC: JSC/MS/TONY GRIFFITH/281 244-5813
ER/MIKE GAWEL/321 853-8118

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/13/06

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2120 - METRIC DATA - OTHER

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 291887 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/29/90
INITIAL DATE: 05/29/90
ITEM NUMBER: H2T DATE LAST CHANGED: 12/01/05
SECTION: 2120 TIME LAST CHANGED: 07:47:15

REQUESTER: MSFC
TEST CODE: RETREV STSALL

ASSOCIATED DOC: 20007S 25407B
TRACKING NO. KING2001 L3509 R109-85
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: SRB IMPACT PREDICTION DATA

JSC IS REQUIRED TO PROVIDE MSFC WITH THE IMPACT PREDICTIONS OF THE SPENT SRB'S. THIS DATA IS TO INCLUDE LATITUDE, LONGITUDE AND TIME. DATA TO BE PROVIDED IN NEAR REAL TIME OVER A HARDLINE VOICE CIRCUIT TO THE LCC FOR RELAY TO THE RETRIEVAL SHIP.

POINT OF CONTACT: PHILIP CAUTHEN/EO60/256 544-4204
TECHNICAL CONTACT: MSFC/MP41/JACK HENGEL/256 544-1570

DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	IP SHEET	1	NRT	MSFC

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/29/90
RESPONSE TRACKING: Z3517

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2200 - TELEMETRY DATA

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 309127 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/13/06
INITIAL DATE: 10/11/91
ITEM NUMBER: K1GKX DATE LAST CHANGED: 03/20/07
SECTION: 2200 TIME LAST CHANGED: 07:46:18

REQUESTER: KSC
SUBREQUESTER: KSC/NE-E3 KSC/PH-I
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 L3110 R0701-2 R109-6
R2625 R2809 R2865 R4424 SCRUB06
PRIORITY: MANDATORY
RATIONALE: ONLY VISIBILITY FOR DATA FROM EAFB TO KSC. AFTER JSC RELEASES ORBITER, KSC IS RESPONSIBLE.

1. DESCRIPTION: REALTIME TELEMETRY-EAFB LANDINGS

KSC REQUIRES DOWNLINK TELEMETRY DATA IN REAL TIME FROM THE ORBITER DURING TURNAROUND ACTIVITIES AT DFRC. POSTFLIGHT DOWNLINK TELEMETRY DATA IS REQUIRED IN REALTIME DURING SPECIFIED TIMES ON A CONTINGENCY BASIS (EITHER UMBILICAL H/L OR RF OPEN LOOP OI PCM).

DATA IS REQUIRED FROM DFRC REMOTED VIA NISN TO KSC/MILA. H/L DATA LINK FROM DFRC BLDG G4834 SCE ROOM 101 TO NISN UPLINK POINT WILL BE VERIFIED PRIOR TO EVERY LANDING. MILA IS REQUIRED TO RECEIVE AND FORMAT THIS DATA (HDR TELEMETRY 128 KB/S OR LDR TELEMETRY, 64 KB/S AS RECEIVED FROM ORBITER) FOR INPUT TO LPS PER ICD. DATA WILL BE DISPLAYED IN REAL TIME ON LCC FIRING ROOM CONSOLES. REQUIREMENT IS NEEDED FROM TOUCHDOWN (S0026) UNTIL FINAL POWER DOWN (V5022).

TECH CONTACT: PETER JOHNSON/NE-E3/321 861-3863

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/16/07
RESPONSE TRACKING: Z2856 Z3133 Z4435

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: NE-E3 RPS USK-194

CONTINUED

[PRD] DATABASE RECORD: 309127
ITEM NUMBER: K1GKX

USK-607

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/13/06
RESPONSE TRACKING: Z3133 Z4426

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/13/06
RESPONSE TRACKING: Z2856 Z3133 Z4460

[PRD] DATABASE RECORD: 242508 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/04/03
INITIAL DATE: 06/13/89
ITEM NUMBER: K2G DATE LAST CHANGED: 12/13/06
SECTION: 2200 TIME LAST CHANGED: 13:26:41

REQUESTER: KSC
SUBREQUESTER: KSC/NE-E3
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20028S
TRACKING NO. DB98 KING2001 R109-6 R2696 R2809
R2855 RTF114-1
PRIORITY: MANDATORY
RATIONALE: ONLY VISIBILITY FOR KSC TO VIEW DATA DURING ROLL-IN FROM SLF TO OPF.

1. DESCRIPTION: FOR LANDINGS AT SLF KSC, MILA WILL RECEIVE VIA RF EITHER HDR 192 KB/S OR LDR 96 KB/S TELEMETRY DATA AND REMOTE VIA HARDLINE TO LCC. ALSO PROVIDE SSR DUMP TO LCC IF INITIATED BY JSC.

TECH CONTACT: PETER JOHNSON/NE-E3/321 861-3863
DENNY GAGEN/PH-L/321 861-9301

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)

CONTINUED

[PRD] DATABASE RECORD: 242508
ITEM NUMBER: K2G

SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/26/03
RESPONSE TRACKING: GSFCREV06 Z2848 ZRTF114-5

[PRD] DATABASE RECORD: 188604 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/04/03
INITIAL DATE: 06/30/89
ITEM NUMBER: KT5.2GK DATE LAST CHANGED: 01/15/07
SECTION: 2200 TIME LAST CHANGED: 10:07:12

REQUESTER: KSC JSC
SUBREQUESTER: JSC/DV14 KSC/PH-F2 KSC/PH-L
TEST CODE: KSC LANDNG S51G02 STSALL

ASSOCIATED DOC: 20028S
TRACKING NO. DB98 GSFCREV06 KING2001 L4410 L508-4
L508-6 L8503 L906-8 R109-6 R2809
R2886 R4417 RTF114-1 SHAW95
PRIORITY: MANDATORY
RATIONALE: JSC REQUIRES THE DATA. KSC GETS THE DATA REALTIME FROM MILA.

1. DESCRIPTION: SSR 1/2 - POSTFLIGHT DUMP - KSC

JSC & KSC REQUIRE DUMPS OF THE ENTRY DATA (APPROXIMATELY LANDING MINUS 1 HOUR TO CREW EGRESS) TO MILA GROUND STATION VIA RF. MILA IS TO EXTEND THE REALTIME SSR 1/2 DUMP DATA TO KSC/RPS. MILA IS TO RECORD THE 1024 KBS DUMP AND PROVIDE REAL TIME TO JSC. DEPENDING ON LINE AVAILABILITY THE PLAYBACK WILL BE AT 1:1 OR 8:1 RATE.

NOTE: START OF DUMP TRANSMISSION SHOULD BE COORDINATED WITH MILA AT 321 867-3518 AND KSC/RPS AT 321 861-6212/321 861-0830.

TECH CONTACT: DENNY GAGEN/PH-L/321 861-9301

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2200 - TELEMETRY DATA

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 188604
ITEM NUMBER: KT5.2GK

SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/26/03
RESPONSE TRACKING: Z2869 Z4221 Z7306 Z7307 Z8507
ZRTF114-5

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: NE-E3 PH-I RPS
USK-194

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/04/03
RESPONSE TRACKING: Z2869 Z4415 Z4442 Z7202 Z8507

[PRD] DATABASE RECORD: 1296 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/08/03
INITIAL DATE: 10/18/91
ITEM NUMBER: KT5.3GKX DATE LAST CHANGED: 03/20/07
SECTION: 2200 TIME LAST CHANGED: 07:48:58

REQUESTER: KSC JSC
SUBREQUESTER: JSC/DV14 KSC/PH-F2
TEST CODE: EAFB S51F02 S51G02 STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 GSFCREV06 KING2001 L03-8-7 L212-1
L409-4 L506-2 L508-4 L5409 L602-1
L6413 L6911 L7603 L906-3 L908-7
R109-6 R2849 R3420 R4417 R4428
RTF114-1 RTF114-11 SHAW95
PRIORITY: MANDATORY
RATIONALE: JSC REQUIRES THE DATA. KSC GETS THE DATA FROM JSC.

1. DESCRIPTION: POSTLANDING-DUMP OF ENTRY DATA - EAFB

JSC & KSC REQUIRE DUMPS OF ENTRY DATA FROM THE SSR 1/2
(DATA RECORDED FROM APPROX. LANDING MINUS 1 HOUR
TO CREW EGRESS) TO DFRC VIA RF LINK. OD REAL TIME TELEMETRY SHALL
REMAIN CONFIGURED TO THE 1.544 MB/S WIDE-BAND CIRCUIT TO KSC & THE MCC

CONTINUED

[PRD] DATABASE RECORD: 1296
ITEM NUMBER: KT5.3GKX

DURING THE SSR RECORDER DUMP TO DFRC. PLAYBACKS OF OD DATA SHALL BE ACCOMPLISHED AFTER R/T AS REQUESTED. DFRC SHALL EXTEND THE DATA TO KSC/RPS VIA GSFC/MILA FOR THE CIRCUITRY.

(REFERENCE: FLS 2736 ITEM T10G DBR 314785)

NOTE: TDRS WILL BE AN EMERGENCY BEST EFFORT SOURCE OF THE OD R/T TELEMETRY TO JSC/KSC FROM LANDING SITES. THE 1.544 MB/S CIRCUIT SHALL BE SCHEDULED AND CONFIGURED AT LANDING MINUS 6 HOURS FOR DFRC LANDING SUPPORT.

COORDINATION: COORDINATION IS REQUIRED WITH GSFC/MIL AND KSC/RPS PRIOR TO START OF PLAYBACK TO KSC.

COORDINATION CONTACTS: GSFC-MILA OPS/321 867-3518
KSC/RPS/321 861-0830
KSC/RENEE HART/321 861-0988

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/11/03
RESPONSE TRACKING: Z0312-3 Z2842 Z3474 Z4448 Z5412
Z6417 Z6906 Z7301 Z7609 ZRTF114-5

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-NE-E3 PH-L RPS
USK-194 USK-426

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/08/03
RESPONSE TRACKING: Z2842 Z3302 Z4415 Z4427 Z5412
Z6417 Z7202 ZRTF114-2

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/08/03

CONTINUED

[PRD] DATABASE RECORD: 1296
ITEM NUMBER: KT5.3GKX

RESPONSE TRACKING: Z2842 Z3641 Z4206 Z5412 Z6417
Z7701 ZRTF114-7

[PRD] DATABASE RECORD: 333800 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/30/00
INITIAL DATE: 06/30/89
ITEM NUMBER: T6K DATE LAST CHANGED: 06/05/07
SECTION: 2200 TIME LAST CHANGED: 10:13:31

REQUESTER: JSC
SUBREQUESTER: JSC/B-NS MER
TEST CODE: KSC STSALL
TRACKING NO. A106-1 KING2001 L04-2-1 L508-1 L711-2
L812-2 L8707 L906-6 R0402-1 R109-6
R2886 R9302 SHAW95
PRIORITY: REQUIRED
RATIONALE: CONTINGENCY PRE-LAUNCH CHECKOUT

1. DESCRIPTION: PROCESSED ORBITER TELEMETRY DATA (CHECK-OUT OR PRELAUNCH IN R/T)

WHEN JSC SUPPORT IS REQUIRED BY KSC IN THE ANALYSIS OF CHECK-OUT OR PRELAUNCH TEST PROBLEMS, JSC WILL REQUIRE PROCESSED ORBITER TELEMETRY DATA FROM KSC AS REQUESTED IN R/T.

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	*	1	IF REQ	JSC
		1	IF REQ	B-NS/HOUSTON

* TYPE OF DATA AND METHOD OF TRANSMITTAL TBD IN R/T.

TECH CONTACT: KSC/RPS/RENEE HART/321 861-0988
RPS/321 861-0830

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: RPS USK-607 USK-614

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2200 - TELEMETRY DATA

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 333800
ITEM NUMBER: T6K

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/30/00
RESPONSE TRACKING: Z7202 Z8720 Z9301

[PRD] DATABASE RECORD: 187729 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/26/89
INITIAL DATE: 06/26/89
ITEM NUMBER: E12K DATE LAST CHANGED: 06/05/07
SECTION: 2200 TIME LAST CHANGED: 10:13:45

REQUESTER: ER
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 R109-13 R2893
PRIORITY: MANDATORY
RATIONALE: RANGE SAFETY SUPPORT

1. DESCRIPTION: FLIGHT TERMINATION SYSTEM PARAMETERS
(KSC RANGE SAFETY CONSOLE)

REALTIME S-BAND TELEMETRY OF FLIGHT TERMINATION SYSTEM PARAMETERS WILL BE DISPLAYED WITH HARD-COPY CAPABILITIES AT THE RANGE SAFETY CONSOLE IN THE KSC LCC DURING CHECKOUT AND PRELAUNCH VERIFICATION. PRESENTLY PARAMETERS ARE (INDIVIDUAL REQUIREMENTS WILL BE PROVIDED ON A MISSION BY MISSION BASIS):

MEAS. ID	TITLE	BITS	SAMPLE/SEC
B55V1625C	LH SRB VOLT. RSS BAT no.1	8	1
B76V1602C	LH SRB VOLT. RECOVERY BAT (RSS no.2)	8	1
B55V2625C	RH SRB VOLT. RSS BAT. no.1	8	1
B76V2602C	RH SRB VOLT. RECOVERY BAT (RSS no.2)	8	1
T55V1735A	ET VOLT. RSS BAT no.1	8	1
T55V1736A	ET VOLT. RSS BAT no.2	8	1
B55V1623C	LH SRB VOLT. RSS PIC CAP. A	8	1
B55V1624C	LH SRB VOLT. RSS PIC CAP. B	8	1
B55V2623C	RH SRB VOLT. RSS PIC CAP. A	8	1
B55V2624C	RH SRB VOLT. RSS PIC CAP. B	8	1
T55V1730A	ET VOLT. RSS PIC CAP. A	8	1

CONTINUED

[PRD] DATABASE RECORD: 187729
ITEM NUMBER: E12K

T55V1731A	ET VOLT. RSS PIC CAP. B	8	1
B55E1100C	LH SRB POWER RSS RCVR. SIG. ST. A	16	5
B55E1101C	LH SRB POWER RSS RCVR. SIG. ST. B	16	5
B55E2100C	RH SRB POWER RSS RCVR. SIG. ST. A	16	5
B55E2101C	RH SRB POWER RSS RCVR. SIG. ST. B	16	5
T55E1130A	ET POWER RSS RCVR SIG. ST.	8	5
B55X1871X	LH SRB EVENT RSS DCDR A ON	1	1
B55X1872X	LH SRB EVENT RSS DCDR B ON	1	1
B55X2871X	RH SRB EVENT RSS DCDR A ON	1	1
B55X2872X	RH SRB EVENT RSS DCDR B ON	1	1
T55X1925E	ET EVENT RSS DCDR ON	1	1
B55X1870X	LH SRB EVENT RSS S&A ARMED	1	1
B55X1869X	LH SRB EVENT RSS S&A SAFED	1	1
B55X2870X	RH SRB EVENT RSS S&A ARMED	1	1
B55X2869X	RH SRB EVENT RSS S&A SAFED	1	1
B55X1877X	LH SRB EVENT RSS A ARM	1	25
B55X1878X	LH SRB EVENT RSS B ARM	1	25
B55X1879X	LH SRB EVENT RSS A DESTRUCT	1	25
B55X1880X	LH SRB EVENT RSS B DESTRUCT	1	25
B55X2877X	RH SRB EVENT RSS A ARM	1	25
B55X2878X	RH SRB EVENT RSS B ARM	1	25
B55X2879X	RH SRB EVENT RSS A DESTRUCT	1	25
B55X2880X	RH SRB EVENT RSS B DESTRUCT	1	25
T55X1931E	ET EVENT RSS ARM	1	25
T55X1933E	ET EVENT RSS DESTRUCT	1	25
B55X1881X	LH SRB EVENT RSS A INHIBIT	1	1
B55X1882X	LH SRB EVENT RSS B INHIBIT	1	1
B55X2881X	RH SRB EVENT RSS A INHIBIT	1	1
B55X2882X	RH SRB EVENT RSS B INHIBIT	1	1
T55X1885X	ET EVENT RSS SYS A INHIBIT	1	1
B55X2888X	ET EVENT RSS SYS B INHIBIT	1	1
B55X1873X	LH SRB EVENT RSS PIC A RTST OK	1	1
B55X1874X	LH SRB EVENT RSS PIC B RTST OK	1	1
B55X2873X	RH SRB EVENT RSS PIC A RTST OK	1	1
B55X2874X	RH SRB EVENT RSS PIC B RTST OK	1	1
B55X1875X	LH SRB EVENT RSS PIC A LOAD TEST OK	1	1
B55X1876X	LH SRB EVENT RSS PIC B LOAD TEST OK	1	1
B55X2875X	RH SRB EVENT RSS PIC A LOAD TEST OK	1	1
B55X2876X	RH SRB EVENT RSS PIC B LOAD TEST OK	1	1

CONTINUED

[PRD] DATABASE RECORD: 187729
ITEM NUMBER: E12K

T55X1883X	ET EVENT RSS PIC A RTST OK	1	1
T55X2886X	ET EVENT RSS PIC B RTST OK	1	1
T55X1884X	ET EVENT RSS PIC A LOAD TEST OK	1	1
T55X2887X	ET EVENT RSS PIC B LOAD TEST OK	1	1
B55X1867X	LH SRB EVENT RSS PIC A FIRED	1	1
B55X1868X	LH SRB EVENT RSS PIC B FIRED	1	1
B55X2867X	RH SRB EVENT RSS PIC A FIRED	1	1
B55X2868X	RH SRB EVENT RSS PIC B FIRED	1	1
T55X1867X	ET EVENT RSS PIC A FIRED	1	1
T55X2868X	ET EVENT RSS PIC B FIRED	1	1
T55X1870X	ET EVENT RSS S&A ARMED	1	1
T55X1869X	ET EVENT RSS S&A SAFED	1	1

POC: ER/MIKE GAWEL/321 853-8118
TECH CONTACT: KSC/TED MOSTELLER/PH-L/321 861-9307

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-PH-F2 USK-237

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/07/89

[PRD] DATABASE RECORD: 246179 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/14/99
INITIAL DATE: 06/26/89
ITEM NUMBER: E13G DATE LAST CHANGED: 01/15/07
SECTION: 2200 TIME LAST CHANGED: 10:09:54

REQUESTER: ER
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. GSFCREV06 KING2001 L5302 L7405 R109-13
R2893 R4205 R9305
PRIORITY: MANDATORY
RATIONALE: RANGE SAFETY

1. DESCRIPTION: FLIGHT TERMINATION SYSTEM PARAMETERS

THE FOLLOWING PARAMETERS ARE TO BE RECORDED AT A NASA GROUND FACILITY FROM T-0 THRU ET SEPARATION OR ORBITAL INSERTION. DATA DELIVERY IN

CONTINUED

[PRD] DATABASE RECORD: 246179
ITEM NUMBER: E13G

TABULAR FORM WILL BE REQUIRED IF AN INFLIGHT ANOMALY OCCURS.

NOTE: WHERE TABULAR FORM CAPABILITY DOESN'T EXIST, PLAYBACK TO THE CCC WILL BE REQUIRED. THE TEST REQUIREMENTS WILL BE PROVIDED ON A MISSION BY MISSION BASIS.

MEAS. ID	TITLE	BITS	SAMPLE/SEC
B55V1625C	LH SRB VOLT. RSS BAT. no.1	8	1
B76V1602C	LH SRB VOLT. RECOVERY BAT. (RSS no.2)	8	1
B55V2625C	RH SRB VOLT. RSS BAT. no.1	8	1
B76V2602C	RH SRB VOLT. RECOVERY BAT. (RSS no.2)	8	1
T55V1735A	ET VOLT. RSS BAT. no.1	8	1
T55V1736A	ET VOLT. RSS BAT. no.2	8	1
B55V1623C	LH SRB VOLT. RSS PIC CAP. A	8	1
B55V1624C	LH SRB VOLT. RSS PIC CAP. B	8	1
B55V2623C	RH SRB VOLT. RSS PIC CAP. A	8	1
B55V2624C	RH SRB VOLT. RSS PIC CAP. B	8	1
T55V1730A	ET VOLT. RSS PIC CAP. A	8	1
T55V1731A	ET VOLT. RSS PIC CAP. B	8	1
B55E1100C	LH SRB POWER RSS RCVR SIG. ST. A	16	5
B55E1101C	LH SRB POWER RSS RCVR SIG. ST. B	16	5
B55E2100C	RH SRB POWER RSS RCVR SIG. ST. A	16	5
B55E2101C	RH SRB POWER RSS RCVR SIG. ST. B	16	5
T55E1130A	ET POWER RSS RCVR SIG. ST.	8	5
B55X1871X	LH SRB EVENT RSS DCDR A ON	1	1
B55X1872X	LH SRB EVENT RSS DCDR B ON	1	1
B55X2871X	RH SRB EVENT RSS DCDR A ON	1	1
B55X2872X	RH SRB EVENT RSS DCDR B ON	1	1
T55X1925E	ET EVENT RSS DCDR ON	1	1
B55X1870X	LH SRB EVENT RSS S&A ARMED	1	1
B55X1869X	LH SRB EVENT RSS S&A SAFED	1	1
B55X2870X	RH SRB EVENT RSS S&A ARMED	1	1
B55X2869X	RH SRB EVENT RSS S&A SAFED	1	1
B55X1877X	LH SRB EVENT RSS A ARM	1	25
B55X1878X	LH SRB EVENT RSS B ARM	1	25
B55X1879X	LH SRB EVENT RSS A DESTRUCT	1	25
B55X1880X	LH SRB EVENT RSS B DESTRUCT	1	25
B55X2877X	RH SRB EVENT RSS A ARM	1	25

CONTINUED

[PRD] DATABASE RECORD: 246179
ITEM NUMBER: E13G

B55X2878X	RH SRB EVENT RSS B ARM	1	25
B55X2879X	RH SRB EVENT RSS A DESTRUCT	1	25
B55X2880X	RH SRB EVENT RSS B DESTRUCT	1	25
T55X1931E	ET EVENT RSS ARM	1	25
T55X1933E	ET EVENT RSS DESTRUCT	1	25
T55X1869X	ET EVENT RSS S&A SAFED	1	1
T55X1870X	ET EVENT RSS S&A ARMED	1	1

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	PAPER TAB-MIL	1	R/T	CSR DATA REDUCTION AND ANALYSIS CSR 4123B M/F OATL-TLM P.O. BOX 4127 PATRICK AFB, FL 32925-0127
2	PAPER TAB-PDL	1	R/T	CSR DATA REDUCTION AND ANALYSIS CSR 4123B M/F OATL-TLM P.O. BOX 4127 PATRICK AFB, FL 32925-0127
3	PAPER TAB-WLPS	1	R/T	CSR DATA REDUCTION AND ANALYSIS CSR 4123B M/F OATL-TLM P.O. BOX 4127 PATRICK AFB, FL 32925-0127

POC: ER/MIKE GAWEL/321 853-8118
TECH CONTACT: MIKE CAMPBELL/321 494-5101

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA PDL WLPS
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/19/99
RESPONSE TRACKING: Z2877 Z4213 Z5301 Z7205 Z9308

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2200 - TELEMETRY DATA

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 252435 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/10/97
INITIAL DATE: 02/12/90
ITEM NUMBER: K14GK DATE LAST CHANGED: 01/15/07
SECTION: 2200 TIME LAST CHANGED: 10:12:27

REQUESTER: KSC
SUBREQUESTER: NE-O
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20007S 20028S
TRACKING NO. DB98 GSFCREV06 KING2001 L2831 ML002-90
R0404-3 R109-6 R2809 R2865 R3102
R8705
PRIORITY: MANDATORY
RATIONALE: LCC REQUIREMENT

1. DESCRIPTION: OD TELEMETRY DATA MILA

KSC REQUIRES, IN REAL TIME, THE ORBITER DOWNLINK TELEMETRY DATA FROM MILA. THIS DATA MUST BE COMPATIBLE WITH THE LPS SYSTEM PER KSC/GSFC ICD FOR REAL TIME DISPLAY ON LCC FIRING ROOM CONSOLES OR RECORDED AS REQUIRED. THE REQUIRED DATA INCLUDES THE OI PCM (192 OR 96 KBS AS RECEIVED FROM THE ORBITER) AND THE S-BAND FM DATA RECEIVED BY MILA. DATA IS TO BE TRANSMITTED ON WIDEBAND EQUIPPED CIRCUITS IN ACCORDANCE WITH THE ICD. DATA INCLUDES THE OI PCM DATA SWITCHED BY MILA TO PDL DATA AT UPLINK CARRIER HANDOVER TO PDL (AFTER LIFTOFF). THE S-BAND FM DATA RECEIVED AT PDL IS TO BE RECORDED AND MADE AVAILABLE TO THE LPS SYSTEM, AFTER LIFTOFF.

TECH CONTACTS: DEBBIE AWTONOMOW/PH-I/321 861-3972
JAMES BANGETER/301 286-7306

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: I-PDL MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 10/21/97
RESPONSE: S-BAND FM DATA RECEIVED AT PDL (SSME) WILL REMAIN AVAILABLE IN REAL-TIME ON A MISSION BY MISSION BASIS AS DIRECTED BY SSPO. QUESTIONS TO JAMES BANGERTER/ GSFC/ND 301 286-7306.

CONTINUED

[PRD] DATABASE RECORD: 252435
ITEM NUMBER: K14GK

RESPONSE TRACKING: Z28106 Z2856 Z3114 Z8710 Z8715

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: PH-K3 RPS

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/20/97
RESPONSE TRACKING: Z28106 Z2856 Z3103 Z8712

[PRD] DATABASE RECORD: 195941 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/12/96
INITIAL DATE: 02/14/90
ITEM NUMBER: H14.1G DATE LAST CHANGED: 01/15/07
SECTION: 2200 TIME LAST CHANGED: 10:13:11

REQUESTER: MSFC
SUBREQUESTER: MS078 MS237
TEST CODE: S51D03 STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. GSFCREV06 KING2001 L7611 ML003-90 R109-13
R3103 R4412
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: P/B OF OD DATA

MSFC WILL REQUIRE, IN THE EVENT THAT R/T TRANSMISSION IS UNSUCCESSFUL, AN ELECTRONIC PLAYBACK OF OD DATA RECORDED DURING COUNTDOWN AND LAUNCH (THRU MECO + 70 MINS).

TECHNICAL CONTACT: GSFC/MILA OPS SUPPORT/321 867-3518
MSFC/JOHN SCOTT/256 544-2938

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/20/96
RESPONSE TRACKING: Z3138 Z4411 Z7609

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2200 - TELEMETRY DATA

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 188978 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/18/97
INITIAL DATE: 02/05/91
ITEM NUMBER: T15GK DATE LAST CHANGED: 11/16/06
SECTION: 2200 TIME LAST CHANGED: 07:13:17

REQUESTER: JSC
SUBREQUESTER: MER VALO92004 VALOE
TEST CODE: KSC S51I01 S61E01 S61E12
STSALL

ASSOCIATED DOC: 20007S 20014S 20017S 20044S
TRACKING NO. KING2001 L002-2 L102-2 L203-11 L203-11A
L2840 L3619 L3628 L3904 L4523
L4931 L4937 L508-1 L906-8 L907-12
R109-6 R2886 R3428 R8303 SHAW95
PRIORITY: MANDATORY
RATIONALE: ENSURES CONTINUOUS DATA STREAM TO JSC

1. DESCRIPTION: HARDLINE TLM DATA TO MILA/JSC

JSC/MCC REQUIRES THE HARDLINE TELEMETRY DATA FROM THE ORBITER PCMMU 128 KB BE TRANSMITTED FROM THE LCC TO MIL DURING PRELAUNCH TEST SUPPORT OPERATIONS FOR TRANSMISSION TO MCC.

THIS IS IN ADDITION TO THE ALREADY EXISTING REQUIREMENT FOR THE MCC TO RECEIVE THE ORBITER DATA TRANSMITTED TO MILA VIA RF. ONLY ONE OF THE DATA SOURCES WILL BE SENT TO MCC AT A GIVEN TIME.

NOTE 1: FOR RF REQUIREMENT SEE LLS 2200 ITEM T43G DBR 344694.

TECH CONTACTS: JSC/DV14/JOE AQUINO/281 483-4033
KSC/USK-607/DICK HARTUNG/321 861-6752

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/18/97
RESPONSE TRACKING: GSFCREV06 Z2675 Z2869 Z3477 Z3616
Z3631 Z3943 Z4546 Z4939 Z7311
Z8304

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2200 - TELEMETRY DATA

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 188978
ITEM NUMBER: T15GK

SUBSUPPLIER: PH-L USK-607

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/18/97
RESPONSE TRACKING: Z2869 Z3418 Z3616 Z3631 Z3943
Z4939 Z7311 Z8304

[PRD] DATABASE RECORD: 336600 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/03/97
INITIAL DATE: 07/03/90
ITEM NUMBER: E16G DATE LAST CHANGED: 01/15/07
SECTION: 2200 TIME LAST CHANGED: 10:14:57

REQUESTER: ER
SUBREQUESTER: 45 SPW/SEO
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. GSFCREV06 KING2001 L2703 L3436 L3526
L3817 L7601 L8009 L8014 L8212
LSRR9405 R0404-3 R109-13 R2839 R6506
R8001
PRIORITY: MANDATORY
RATIONALE: RANGE SAFETY

1. DESCRIPTION: RANGE SAFETY

SELECTED VEHICLE PERFORMANCE AND FLIGHT TERMINATION SYSTEM PARAMETERS FROM THE ORBITER S-BAND SYSTEM ARE REQUIRED FROM MILA, PDL, AND WPS STATIONS (WPS IS REQUIRED FOR INCLINATIONS GREATER THAN 28.5 DEGREES.) AND ARE TO BE TRANSMITTED TO THE RANGE OPERATIONS CONTROL CENTER/ REALTIME COMPUTER SYSTEMS (ROCC/RTCS) FOR REAL TIME DISPLAY. THE PDL AND WPS STATIONS WILL SEND UNPROCESSED (192/96) OD DATA TO MILA. MILA WILL (DECRYPT IF REQUIRED) STRIP OUT SELECTED RANGE SAFETY PARAMETERS FROM ALL SITES & TRANSMIT TO ROCC/RTCS OVER THE EXISTING 2.4 KBS DATA CIRCUITS FOR PROCESSING ON THE RSD. RANGE SAFETY ID OF 6 IS REQUIRED IN THE DATA STREAM.

A. MINIMUM STAFFING CAPABILITY MAY IMPAIR WPS RESPONSE TIME TO A SYSTEM FAILURE AND MAY LIMIT THEIR SUPPORT FLEXIBILITY.
B. A SINGLE POINT OF FAILURE EXISTS IN THE TELEMETRY COMMUNICATIONS

CONTINUED

[PRD] DATABASE RECORD: 336600
ITEM NUMBER: E16G

LINK BETWEEN WPS AND MIL.

TECH CONTACT: ER/MIKE GAWEL/321 853-8118
GSFC/JAMES BANGERTER/451.0/301 286-7306

REFERENCE: ITEM E28EGK SECT 2766 DBR 320604 FOR DATA CIRCUIT.

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: I-PDL MILA WFF
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/21/97
RESPONSE TRACKING: Z2768 Z28113 Z3168 Z3343 Z3475
Z3530 Z3826 Z6532 Z8014 Z8020
Z8310

[PRD] DATABASE RECORD: 357813 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/28/91
INITIAL DATE: 03/28/91
ITEM NUMBER: E20G DATE LAST CHANGED: 01/15/07
SECTION: 2200 TIME LAST CHANGED: 10:15:36

REQUESTER: ER
TEST CODE: STSALL
TRACKING NO. GSFCREV06 KING2001 L3940 R109-13 R2893
PRIORITY: MANDATORY
RATIONALE: RANGE SAFETY

1. DESCRIPTION: TELEMETRY STATIONS PROCESSING RANGE SAFETY PARA-
METERS WILL ADD RECEIVING STATION IDENTIFIERS,
PFS/BFS MODE AND DOWN LINK COMBINATION
(HIGH/LOW BIT RATE) INDICATIONS TO THE DATA
STREAM TO THE CCC FOR 1108 VERIFICATION TESTING.

TECH CONTACT: ER/MIKE GAWEL/321 853-8118
GSFC/JOHN LIMPERT/301 286-8297

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: GSFC/451.0 MILA

CONTINUED

[PRD] DATABASE RECORD: 357813
ITEM NUMBER: E20G

RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/08/91
RESPONSE TRACKING: Z2877 Z3982

[PRD] DATABASE RECORD: 176909 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/28/91
INITIAL DATE: 05/16/90
ITEM NUMBER: E21G DATE LAST CHANGED: 01/15/07
SECTION: 2200 TIME LAST CHANGED: 10:16:26

REQUESTER: ER
SUBREQUESTER: 45 SPW/SEO
TEST CODE: STSALL
TRACKING NO. GSFCREV06 KING2001 L2839 L3221 L3527
L3536 L3940 R109-13 R2893
PRIORITY: MANDATORY
RATIONALE: MISSION SUCCESS

1. DESCRIPTION: RANGE SAFETY DISPLAY SYSTEMS CHECKOUT

TO FACILITATE THE RANGE SAFETY DISPLAY SYSTEMS CHECKOUT AT THE ER, PROVIDE THE DATA GENERATOR PROGRAM UTILIZED WITH THE TELEMETRY COMMAND DATA SYSTEM (TCDS) TO INCLUDE:

STATE VECTORS/TIME, PFS/BFS PARAMETERS AND A STATIC DATA PORTION OF THE PROGRAM WITH A DIFFERENT PREDETERMINED VALUE IN EACH PARAMETER DISPLAYED (5 STEP CALS) AT THE ER RANGE SAFETY DISPLAYS.

TECH CONTACT: ER/MIKE GAWEL/321 853-8118

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: GSFC/451.0 MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/08/91
RESPONSE TRACKING: Z28113 Z2877 Z3223 Z3541 Z3982

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2200 - TELEMETRY DATA

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 339008 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/15/97
INITIAL DATE: 05/03/90
ITEM NUMBER: G21.1E DATE LAST CHANGED: 06/05/07
SECTION: 2200 TIME LAST CHANGED: 10:14:14

REQUESTER: GSFC
SUBREQUESTER: GSFC/531 GSFCR1 VALO92001 VALOE
TEST CODE: STSALL
TRACKING NO. KING2001 L3516 MK98 R109-13 R2850
R2876 R8702 R8707
PRIORITY: MANDATORY
RATIONALE: ANNUAL UPDATE

1. DESCRIPTION: INFORMATION UPDATE FOR TRAJECTORY SIMULATOR

45 SW WILL PROVIDE GSFC WITH THE ANNUAL UPDATE TO
THE STATE VECTOR/TIME DATA FOR INCLUSION IN DATA
GENERATOR TRAJECTORY SIMULATOR PROGRAM. DATA IS
REQUIRED 60 DAYS PRIOR TO CHANGE OF CALENDAR YEAR.

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	TAB TRAJ UP-DATE	1	CHANGE-60CD	GSFC/MAIL TO: ALLIEDSIGNAL TECHNICAL SERVICE CORP. 7515 MISSION DR. LANHAM, MD 20006 ATTN: HONEYWELL TSI/ JOHN LIMPERT GSFC/BLDG. 25 GREENBELT, MD 20771 (301) 286-8297

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/15/97
RESPONSE TRACKING: Z2843 Z2861 Z3523 Z8703 Z8709

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2200 - TELEMETRY DATA

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 998 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/20/95
INITIAL DATE: 05/13/85
ITEM NUMBER: E21.2G DATE LAST CHANGED: 11/16/06
SECTION: 2200 TIME LAST CHANGED: 07:13:10

REQUESTER: ER
TEST CODE: STSALL
TRACKING NO. KING2001 L3522 R109-13 R2893 SHAW95
PRIORITY: MANDATORY
RATIONALE: MISSION SUCCESS

1. DESCRIPTION: RANGE SAFETY DATA STALENESS FROM MIL, PDL & WLPS

PROVIDE ER WITH THE CAPABILITY TO MEASURE R/S TELEMETERY DATA STALENESS FROM MILA, PDL, WLPS, AND R0CC; THE DATA GENERATOR PROGRAM SHOULD INCLUDE GMT TIME IN WORDS 290 AND 291 IN BLOCK 4 OF THE 64 BIT IBM FLOATING FORMAT, SERIAL OUTPUT TAG FF.

TECH CONTACT: ER/MIKE GAWEL/321 853-8118

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA PDL WLPS
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/17/95
RESPONSE TRACKING: GSFCREV06 Z2877 Z3525 Z6313

[PRD] DATABASE RECORD: 179841 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/06/94
INITIAL DATE: 03/28/91
ITEM NUMBER: E22T DATE LAST CHANGED: 06/05/07
SECTION: 2200 TIME LAST CHANGED: 10:14:33

REQUESTER: ER
TEST CODE: STSALL
TRACKING NO. ELSRR9405 ELSRR9410 KING2001 L04-2-1 L3940
R0402-1 R109-13 R2893 R6506 R6569
R8402
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT - BACKUP AVAILABLE

1. DESCRIPTION: PROVIDE ER WITH OD TLM DOWNLIST FORMATS

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2200 - TELEMETRY DATA

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 179841
ITEM NUMBER: E22T

PROVIDE ER WITH A REPORT (GENERATED BY B-NS/HOU)
CONTAINING SPECIFIC OD TELEMETRY PARAMETERS IN DOWNLIST FORMATS
012, 021, 102, 129, AND 166. FAX TO MIKE GAWEL (321)
853-8303 90 DAYS PRIOR TO EACH SHUTTLE FLIGHT.

TECH CONTACT: ER/MIKE GAWEL/321 853-8118

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
SUBSUPPLIER: JSC/DP2

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/08/94
RESPONSE TRACKING: Z2877 Z3982 Z6542 Z6558

[PRD] DATABASE RECORD: 339269 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/15/97
INITIAL DATE: 05/03/90
ITEM NUMBER: G22.1T DATE LAST CHANGED: 06/05/07
SECTION: 2200 TIME LAST CHANGED: 10:14:51

REQUESTER: GSFC
SUBREQUESTER: GSFC/531 GSFCR1
TEST CODE: S51E01 STSALL
TRACKING NO. KING2001 L3516 L6207 R0503-1 R109-13
R2850 R2876 R8702 R8707
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT - BACKUP AVAILABLE

1. DESCRIPTION: OD TLM DOWNLIST FORMATS

REFERENCE LLS2200, ITEM E22T, DBR 179841 JSC WILL PROVIDE GSFC WITH A MAGNETIC TAPE RECORDING OF THE OD TLM DOWNLIST FORMATS AS THEY WILL APPEAR ON EACH MISSION (PREFERRED), OR PROVIDE A BASIC TELEMETRY DOWNLIST FORMAT, WITH MAGNETIC TAPE RECORDING REVISIONS ASSOCIATED WITH EACH MISSION. THIS INFORMATION IS NEEDED 90 DAYS BEFORE LAUNCH AND IS REQUIRED FOR GENERATION, DEVELOPMENT, AND VERIFICATION OF DATA PROCESSOR AND DATA GENERATOR PROGRAMS AND/OR ERRATA TO SATISFY USER REQUIREMENTS, ESPECIALLY RANGE SAFETY REQUIREMENTS.

DATA DISPOSITION:

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2200 - TELEMETRY DATA

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 339269
ITEM NUMBER: G22.1T

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	MAGNETIC TAPE/CD RECORDING	1	L-90 WD	GSFC/MAIL TO: HONEYWELL/TSI 7515 MISSION DR. LANHAM, MD 20006 ATTN: HONEYWELL/TSI JOHN LIMPERT/GSFC GSFC/BLDG. 25 GREENBELT, MD 20771 (301) 286-8297

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
SUBSUPPLIER: JSC/DP2

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/15/97
RESPONSE TRACKING: Z2843 Z2861 Z3523 Z6210 Z8703
Z8709

[PRD] DATABASE RECORD: 182771 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/22/91
INITIAL DATE: 07/22/91
ITEM NUMBER: E23G DATE LAST CHANGED: 01/15/07
SECTION: 2200 TIME LAST CHANGED: 10:17:50

REQUESTER: ER
SUBREQUESTER: I-JDMTA
TEST CODE: STSALL
TRACKING NO. GSFCREV06 KING2001 L2839 L4333 R109-13
R2893 R8402
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT - BACKUP AVAILABLE

1. DESCRIPTION: PROVIDE ER (JDMTA) WITH AN OD TELEMETRY DOWNLINK TAPE RECORDING FOR SHUTTLE MISSIONS. THIS TAPE IS REQUIRED YEARLY IN JANUARY AND UPDATES AS SOFTWARE CHANGES OCCUR IN THE RANGE SAFETY PARAMETERS. THIS TAPE IS TO HAVE THE ABILITY TO CHECK OUT RANGE SAFETY DISPLAYS FOR PREMISSION AND LAUNCH COUNTDOWN CHECKOUTS (HBR-PFS, BFS AND LBR-PFS, BFS). THEORETICAL TRAJECTORY DATA SHOULD ORIGINATE AT THE LAUNCH PAD AND BE REFERENCED TO THE EPOCH TIME THAT WILL BE USED

CONTINUED

[PRD] DATABASE RECORD: 182771
ITEM NUMBER: E23G

ON THE ORBITER (A TRAJECTORY TAPE AND TAB WILL BE FURNISHED TO ER BY GSFC). THIS TAPE RECORDING TO BE SUPPLIED TO ER 10 DAYS PRIOR TO THE SCHEDULED RANGE SAFETY TELEMETRY VERIFICATION TEST (1108). ONE INCH, 14-TRACK TAPE, FM RECORDED AT 60 IPS IS REQUIRED.

POINTS OF CONTACT: TSI/JOHN LIMPERT/301 286-8297
ER/MIKE GAWEL/321 853-8118

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	ANALOG SERIAL MAG TAPE	1	YEARLY OR AS REVISIONS OCCUR	TEL 4 (CALL FOR PICKUP) 321 853-9802

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: GSFC/531 MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/22/91
RESPONSE TRACKING: Z28113 Z2877 Z4359

[PRD] DATABASE RECORD: 246220 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/30/94
INITIAL DATE: 12/20/89
ITEM NUMBER: E24G DATE LAST CHANGED: 01/15/07
SECTION: 2200 TIME LAST CHANGED: 10:18:24

REQUESTER: ER
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20017S
TRACKING NO. GSFCREV06 KING2001 L2839 L3221 L5915
L5917 R109-13 R2893
PRIORITY: MANDATORY
RATIONALE: RANGE SAFETY

CONTINUED

[PRD] DATABASE RECORD: 246220
ITEM NUMBER: E24G

1. DESCRIPTION: ER REQUIRES THE ORBITER S-BAND TELEMETRY DATA (UNENCRYPTED) DOWNLINK (192 KBS OR 96 KBS) FOR VERIFICATION TESTING AND FROM ANY GN STATION AOS TO LOS ON LAUNCH BE TRANSMITTED VIA MILA TO ROCC (PROCESSED) AND TEL 4 (UNPROCESSED) FOR RANGE SAFETY DISPLAYS.

TECH CONTACT: ER/MIKE GAWEL/321 853-8118

REFERENCE: LLS SECT 2766 ITEM E2EGK DBR 310959

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA PDL WLPS
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/30/94
RESPONSE TRACKING: Z28113 Z2877 Z3223 Z5920

[PRD] DATABASE RECORD: 207016 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/26/89
INITIAL DATE: 06/26/89
ITEM NUMBER: E28GT DATE LAST CHANGED: 01/15/07
SECTION: 2200 TIME LAST CHANGED: 10:18:53

REQUESTER: ER
TEST CODE: S51G01 STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. GSFCREV06 KING2001 R109-13 R2893
PRIORITY: MANDATORY
RATIONALE: MISSION SUCCESS/RANGE SAFETY

1. DESCRIPTION: PROVIDE ER WITH ORBITER S-BAND ANTENNA SWITCHING TIMES AND QUADRANT LOCATION DURING LAUNCH PHASE AND MILA/PDL S-BAND HANDOVER TIMES DURING LAUNCH PHASE. THIS INFORMATION AND ANY CHANGES SHOULD BE SENT VIA TTY MESSAGE TO GRCC/NETWORK OPS BY L-10 WD. ALL CHANGES AFTER L-10 WD SHOULD BE TRANSMITTED VIA VOICE TO DOD TRACK AT L-48 HOURS.

POC: ER/MIKE GAWEL/321 853-8118

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2200 - TELEMETRY DATA

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 207016
ITEM NUMBER: E28GT

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: GSFC/NIC I-MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/07/89
RESPONSE TRACKING: Z2877

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
SUBSUPPLIER: JSC/DF2
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/10/89
RESPONSE TRACKING: Z2877

[PRD] DATABASE RECORD: 380551 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/14/99
INITIAL DATE: 06/26/89
ITEM NUMBER: E29T DATE LAST CHANGED: 06/05/07
SECTION: 2200 TIME LAST CHANGED: 10:15:11

REQUESTER: ER
TEST CODE: STSALL
TRACKING NO. KING2001 R109-13 R2893 R9305
PRIORITY: MANDATORY
RATIONALE: MISSION SUCCESS/RANGE SAFETY

1. DESCRIPTION: PROVIDE ER WITH THE CALIBRATION DATA CURVES FOR THE RANGE SAFETY TELEMETRY PARAMETERS DISPLAYED AT THE CCAFS ROCC. SEE 2200, ITEM E31G, DBR 217757 FOR THE SUBJECT PARAMETERS. THIS CALIBRATION DATA IS REQUIRED BY L-60 WD.

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	CALIB CURVES	1	L-60 WD	NETWORK OPS, CSR 3212 PATRICK AFB, FL. 32925-0127

CONTINUED

[PRD] DATABASE RECORD: 380551
ITEM NUMBER: E29T

POC: ER/MIKE GAWEL/321 853-8118

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
SUBSUPPLIER: JSC/DP2

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/14/99
RESPONSE TRACKING: Z2877 Z9305

[PRD] DATABASE RECORD: 339583 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/15/97
INITIAL DATE: 05/03/90
ITEM NUMBER: G30.1T DATE LAST CHANGED: 06/05/07
SECTION: 2200 TIME LAST CHANGED: 10:15:27

REQUESTER: GSFC
SUBREQUESTER: GSFC/531 GSFCR1
TEST CODE: STSALL
TRACKING NO. KING2001 L3516 R0503-1 R109-13 R2850
R2876 R8702 R8707
PRIORITY: MANDATORY
RATIONALE: MISSION SUCCESS

1. DESCRIPTION: PROVISION OF ORBITER SOFTWARE CHANGE REQUESTS

JSC WILL PROVIDE GSFC WITH ORBITER SOFTWARE CHANGE REQUESTS SPECIFYING WHICH ASCENT FORMATS WILL BE UTILIZED FOR EACH MISSION. THESE SHALL INDICATE PRIME AND BACKUP FORMATS AND DEFINE ANY PLANNED SWITCHING BETWEEN FORMATS. THIS INFORMATION IS MANDATORY FOR INCORPORATION OF FORMAT SWITCHING CAPABILITY WITHIN TELEMETRY SOFTWARE.

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	REPORT	1	L-60 WD	GSFC/ MAIL TO: HONEYWELL/TSI 7515 MISSION DR. LANHAM, MD 20006 ATTN: HONEYWELL/TSI

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2200 - TELEMETRY DATA

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 339583
ITEM NUMBER: G30.1T

JOHN LIMPERT
GSFC/BLDG. 25
GREENBELT, MD 20771
(301) 286-8297

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
SUBSUPPLIER: JSC/DP2

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/15/97
RESPONSE TRACKING: Z2843 Z2861 Z3523 Z8703 Z8709

[PRD] DATABASE RECORD: 217757 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/28/05
INITIAL DATE: 06/26/89
ITEM NUMBER: E31GT DATE LAST CHANGED: 11/16/06
SECTION: 2200 TIME LAST CHANGED: 07:13:19

REQUESTER: ER
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 L6915 L8712 L8713 L9401
R0511-3 R109-13 R2893
PRIORITY: MANDATORY
RATIONALE: MISSION SUCCESS

1. DESCRIPTION: RANGE SAFETY DISPLAY PARAMETERS (VEHICLE PERFORMANCE, STATE VECTORS, AND FLIGHT TERMINATION SYSTEM)

REALTIME S-BAND TELEMETRY,STATE VECTORS, AND FLIGHT TERMINATION SYSTEM PARAMETERS ARE REQUIRED FOR DISPLAY AND RECORDING AT THE RANGE SAFETY AREA AND IN THE REALTIME COMPUTER SYSTEM (RTCS) IN THE CCAFS RANGE OPERATIONS CONTROL CENTER (ROCC). THIS REQUIREMENT IS FOR ALL LAUNCH AZIMUTHS FROM LAUNCH COUNTDOWN THROUGH MECO. DESIRED TOTAL ELAPSED TIME FROM ORBITER TRANSMISSION TO RECIEPT AT THE RTCS IN PROPER FORMAT IS 4 SECONDS

OR LESS. PRESENTLY IDENTIFIED PARAMETERS ARE:

FORMAT 021 PFS ASCENT:

CONTINUED

[PRD] DATABASE RECORD: 217757
ITEM NUMBER: E31GT

MEAS. ID	TITLE	BITS	UNITS	SAMPLE RATE	FRAME	WORD
B47P1301C	LH SRB CP	10	PSIA	1	0	88
B47P2301C	RH SRB CP	10	PSIA	1	0	86
B55E1100C	LH SRB RCVR SSA	10	VOLTS	1	4	95
B55E1101C	LH SRB RCVR SSB	10	VOLTS	1	17	89
B55E2100C	RH SRB RCVR SSA	10	VOLTS	1	13	95
B55E2101C	RH SRB RCVR SSB	10	VOLTS	1	0	90
B55V1623C	LH SRB PIC CAP A	10	VOLTS	5	3	102
B55V1624C	LH SRB PIC CAP B	10	VOLTS	5	3	103
B55V2623C	RH SRB PIC CAP A	10	VOLTS	5	1	104
B55V2624C	RH SRB PIC CAP B	10	VOLTS	5	1	105
B55X1869X	LH SRB S&A SAFE	1	----	5	1	107
B55X2869X	RH SRB S&A SAFE	1	----	5	2	108
E41P1023B	ME-1 CH PRESS	16	PSIA	5	0	60
E41P2023B	ME-2 CH PRESS	16	PSIA	5	0	62
E41P3023B	ME-3 CH PRESS	16	PSIA	5	0	64
V43P4649C	OMS-L CH PRESS	10	PCT	25	0	57
V43P5649C	OMS-R CH PRESS	10	PCT	25	0	58
V90R5301C	RGA ROLL RATE	32	DEG/SEC	5	0	53
V90R5321C	RGA PITCH RATE	32	DEG/SEC	5	1	53
V90R5341C	RGA YAW RATE	32	DEG/SEC	5	2	53
V90X8250X	ET SEP CMD (BIT 3)	1	----	1	18	17
V90X8331X	SRB SEP CMD (BIT 6)	1	----	1	10	40
V95H0185C	X POSITION	64	FT	1	21	21
V95H0186C	Y POSITION	64	FT	1	21	25
V95H0187C	Z POSITION	64	FT	1	0	17
V95L0190C	X VELOCITY	32	FT/SEC	1	0	21
V95L0191C	Y VELOCITY	32	FT/SEC	1	0	23
V95L0192C	Z VELOCITY	32	FT/SEC	1	0	25
V95W0200C	TIME	64	SEC	1	21	17

FORMAT 012 BFS ASCENT

MEASUREMENT	TITLE	BITS	UNITS	SAMPLE RATE	FRAME	WORD
V98H0110C	X POSITION	64	FT	1	18	3

CONTINUED

[PRD] DATABASE RECORD: 217757
ITEM NUMBER: E31GT

V98H0116C	Y POSITION	64	FT	1	19	3
V98H0122C	Z POSITION	64	FT	1	20	3
V98L0130C	X VELOCITY	32	FT/SEC	1	22	3
V98L0136C	Y VELOCITY	32	FT/SEC	1	22	5
V98L0143C	Z VELOCITY	32	FT/SEC	1	22	7
V98P1740C	LH SRB CP	16	PSIA	1	11	27
V98P1741C	RH SRB CP	16	PSIA	1	11	28
V98P2100C	ME-1 CH PRESS(C)	16	PSIA	1	15	4
V98P2110C	ME-2 CH PRESS(L)	16	PSIA	1	15	5
V98P2120C	ME-3 CH PRESS(R)	16	PSIA	1	15	6
V98P2365C	OMS-R CH PRESS(2)	10	PCT	1	23	26
V98P2366C	OMS-L CH PRESS(1)	10	PCT	1	23	27
V98R1550C	ROLL RATE	16	DEG/SEC	25	0	16
V98R1553C	SRB/ORB PITCH	16	DEG/SEC	25	0	14
V98R1554C	SRB/ORB YAW	16	DEG/SEC	25	0	15
V98R1555C	ORB PITCH	16	DEG/SEC	5	4	12
V98R1556C	ORB YAW	16	DEG/SEC	5	1	12
V98W0100C	TIME	64	SEC	1	21	3
V98X0643X	BFS ENGAGE	1	--	1	15	3
V98X3534X	SRB SEP CMD	1	--	1	18	9
V98X3550X	ET SEP CMD	1	--	1	18	10

POC: ER/MIKE GAWEL/321 853-8118
JSC/DFE/281 483-2411

NOTE: THE 32 BIT PARAMETERS ARE IN IBM FLOATING POINT. THE 64 BIT PARAMETERS ARE IN DOUBLE PRECISION IBM FLOATING POINT

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/06/05
RESPONSE TRACKING: G0065 Z2877 Z7307 Z8902 Z9017
Z9412 Z9505

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

CONTINUED

[PRD] DATABASE RECORD: 217757
ITEM NUMBER: E31GT

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/12/05
RESPONSE TRACKING: Z8724

[PRD] DATABASE RECORD: 243614 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/02/99
INITIAL DATE: 06/26/89
ITEM NUMBER: E33G DATE LAST CHANGED: 11/16/06
SECTION: 2200 TIME LAST CHANGED: 07:13:20

REQUESTER: ER
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 L6905 R109-13 R2893 R9311
PRIORITY: MANDATORY
RATIONALE: MISSION SUCCESS

1. DESCRIPTION: RANGE SAFETY TLM FORMAT
(REFERENCE ITEM NO. E31G)

BLOCK 1 2.5 FRAMES/SEC (2.4 KBS)/LSB FIRST. REFER TO NOTES AFTER BLOCK 4 FORMAT

WORD	BITS	CONTENTS	NOTES
1	1- 8	BLOCK ID = 00000001 (BIT 1 = LSB = 1)	
1	9-60	PARAMETER A, BIT 9 LSB	NOTE 1,2
2	1-12	PARAMETER A, BIT 12 MSB	NOTE 1,2
2	13-60	PARAMETER B, BIT 13 LSB	NOTE 1,2
3	1-16	PARAMETER B, BIT 16 MSB	NOTE 1,2
3	17-22	SPARE	
3	23-32	PARAMETER Q, BIT 23 LSB, BIT 32 SIGN	NOTE 3
3	33-38	SPARE	
3	39-48	PARAMETER R, BIT 39 LSB, BIT 48 SIGN	NOTE 3
3	49-54	SPARE	
3	55-60	PARAMETER S, BIT 55 LSB	NOTE 3
4	1- 4	PARAMETER S, BIT 4 SIGN	
4	5-10	SPARE	

CONTINUED

[PRD] DATABASE RECORD: 243614
ITEM NUMBER: E33G

4	11-20	PARAMETER T, BIT 11 LSB, BIT 20 SIGN	NOTE 3
4	21-28	PARAMETER U, BIT 21 LSB, BIT 28 MSB	
4	29	SRB SEPARATION	NOTE 4
4	30	ET SEPARATION	NOTE 4
4	31	LH SRB EVENT RSS S&A SAFE	NOTE 4
4	32	RH SRB EVENT RSS S&A SAFE	NOTE 4
4	33	BFS ENGAGE	NOTE 4
4	34-36	DISCRETES	NOTE 4
4	37-44	STATUS	NOTE 5
4	45-60	SYNC = 0101100001011000	NOTE 6

BLOCK 2

1	1- 8	BLOCK ID = 00000010 (BIT 1=LSB=0,BIT 2=1)	
1	9-18	PARAMETER QQ, BIT 9 LSB, BIT 18 SIGN	NOTE 3
1	19-28	PARAMETER RR, BIT 19 LSB, BIT 28 SIGN	NOTE 3
1	29-38	PARAMETER SS, BIT 29 LSB, BIT 38 SIGN	NOTE 3
1	39-48	PARAMETER TT, BIT 39 LSB, BIT 48 SIGN	NOTE 3
1	49-56	PARAMETER JJ, BIT 49 LSB, BIT 56 MSB	
1	57-60	PARAMETER C, BIT 57 LSB	NOTE 1,2
2	1-60	PARAMETER C, BIT 60 MSB	NOTE 1,2
3	1-32	PARAMETER D, BIT 1 LSB, BIT 32 MSB	NOTE 1
3	33-60	PARAMETER E, BIT 33 LSB	NOTE 1
4	1- 4	PARAMETER E, BIT 4 MSB	NOTE 1
4	5-36	PARAMETER F, BIT 5 LSB, BIT 36 MSB	NOTE 1
4	37-44	STATUS	NOTE 5
4	45-60	SYNC = 1010000001011000	NOTE 6

BLOCK 3

WORD	BITS	CONTENTS	NOTES
1	1- 8	BLOCK ID = 00000011 (BIT 1=LSB=1,BIT 2=1)	
1	9-14	SPARE	
1	15-24	PARAMETER Q, BIT 15 LSB, BIT 24 SIGN	NOTE 3
1	25-30	SPARE	
1	31-40	PARAMETER R, BIT 31 LSB, BIT 40 SIGN	NOTE 3
1	41-46	SPARE	
1	47-56	PARAMETER S, BIT 47 LSB, BIT 56 SIGN	NOTE 3

CONTINUED

[PRD] DATABASE RECORD: 243614
ITEM NUMBER: E33G

1 57-60	SPARE	
2 1- 2	SPARE	
2 3-12	PARAMETER T, BIT 3 LSB, BIT 12 SIGN	NOTE 3
2 13-20	PARAMETER U, BIT 13 LSB, BIT 20 MSB	
2 21-52	PARAMETER G, BIT 21 LSB, BIT 52 MSB	NOTE 1
2 53-60	PARAMETER H, BIT 53 LSB	NOTE 1
3 1-24	PARAMETER H, BIT 24 MSB	NOTE 1
3 25-56	PARAMETER I, BIT 25 LSB, BIT 56 MSB	NOTE 1
3 57-60	SPARE	
4 1- 2	SPARE	
4 3-12	PARAMETER J, BIT 3 LSB, BIT 12 SIGN	NOTE 3
4 13-18	SPARE	
4 19-28	PARAMETER K, BIT 19 LSB, BIT 28 SIGN	NOTE 3
4 29-36	PARAMETER KK, BIT 29 LSB, BIT 36 MSB	
4 37-44	STATUS	NOTE 5
4 45-60	SYNC = 0101100001011000	NOTE 6

BLOCK 4

WORD	BITS	CONTENTS	NOTES
1	1- 8	BLOCK ID = 00000100 (BIT 1=LSB=0, BIT 3=1	
1	9-24	PARAMETER L, BIT 9 LSB, BIT 24 SIGN	NOTE 3
1	25-40	PARAMETER M, BIT 25 LSB, BIT 40 SIGN	NOTE 3
1	41-56	PARAMETER N, BIT 41 LSB, BIT 56 SIGN	NOTE 3
1	57-60	SPARE	
2	1- 2	SPARE	
2	3-12	PARAMETER O, BIT 3 LSB, BIT 12 SIGN	NOTE 3
2	13-18	SPARE	
2	19-28	PARAMETER P, BIT 19 LSB, BIT 28 SIGN	NOTE 3
2	29-60	PARAMETER FF, BIT 29 LSB	NOTE 1
3	1-32	PARAMETER FF, BIT 32 SIGN	NOTE 1
3	33-60	SPARE	
4	1-28	SPARE	
4	29-36	SITE ID	NOTE 7
4	37-44	STATUS	NOTE 5
4	45-60	SYNC = 1010000001011000	NOTE 6

CONTINUED

[PRD] DATABASE RECORD: 243614
ITEM NUMBER: E33G

NOTES:
1. IBM FLOATING POINT FORMAT
2. DOUBLE PRECISION
3. DO NOT USE SIGN BIT
4. 1 = EVENT HAS OCCURED
5. STATUS: 01001111 HIGH RATE PRIMARY FLIGHT SYSTEM
01111111 HIGH RATE BACKUP FLIGHT SYSTEM
00001111 LOW RATE PRIMARY FLIGHT SYSTEM
00111111 LOW RATE BACKUP FLIGHT SYSTEM
STATUS BITS: 37-38 PFS SYNC/O=SEARCH, 3=LOCK
39-40 BFS SYNC STATUS
41-42 PFS/BFS PROCESSING SELECTED
43 HIGH/LOW RATE SELECTED
44 NOT USED
6. SYNC IS LISTED WITH MSB FIRST AND LSB LAST
7. SITE ID: O-NOT USED
1-MILA
2-PDL
3-TEL 4
4-JDIF
5-WPS

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA PDL WFF
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/02/99
RESPONSE TRACKING: Z2877 Z6932 Z9313

[PRD] DATABASE RECORD: 316463 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/21/03
INITIAL DATE: 03/15/90
ITEM NUMBER: H35T DATE LAST CHANGED: 11/07/06
SECTION: 2200 TIME LAST CHANGED: 12:20:33

REQUESTER: MSFC
TEST CODE: STSALL
TRACKING NO. KING2001 L3111 ML003-90 ML006-90 R03-05-1
R109-13 R109-19 R3103
PRIORITY: REQUIRED

CONTINUED

[PRD] DATABASE RECORD: 316463
ITEM NUMBER: H35T

RATIONALE: MISSION SUPPORT. PROVIDES ESSENTIAL DATA FIELDS FOR MISSION MEASUREMENTS TO ENABLE MSFC TO BUILD FLIGHT DATABASES (CAL COEFFICIENTS, ETC.)

1. DESCRIPTION: SHUTTLE DATA TAPE INFORMATION

JSC IS REQUIRED TO PROVIDE MSFC WITH SHUTTLE DATA TAPE INFORMATION IN CD MEDIA FORM.

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	CD FINAL	1	L-6 MTHS	MARSHALL SPACE FLIGHT CENTER, BLDG 4663 HUNTSVILLE, AL. 35812 MARK FOR: JOHN SCOTT/ RM C-168/256 544-2938
2	CD CERTIFIED	1	L-6 WEEKS	" "

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
SUBSUPPLIER: JSC/DP2

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/08/03
RESPONSE TRACKING: Z109-15 Z3157 ZRTF114-8

[PRD] DATABASE RECORD: 333862 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/04/95
INITIAL DATE: 07/11/89
ITEM NUMBER: K41T DATE LAST CHANGED: 06/05/07
SECTION: 2200 TIME LAST CHANGED: 10:16:04

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB JSC KSC STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 L2810 R109-13 R2809
R2861 SHAW95

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2200 - TELEMETRY DATA

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 333862
ITEM NUMBER: K41T

PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR JSC TURNOVER TO KSC

1. DESCRIPTION: POST-LANDING GOM HANDOVER AT DFRC

THE JSC MCC IS REQUIRED TO BE PREPARED TO BACKUP KSC LCC TELEMETRY SUPPORT OF ORBITER POST-LANDING OPERATIONS AT EDWARDS AFB.

IF TOTAL MCC CAPABILITY (VOICE AND TELEMETRY) IS LOST, HANDOVER TO THE GOM WILL BE ACCOMPLISHED ASAP.

TECH CONTACTS: KSC/PH-M1/DENNY GAGEN/321 861-9301
KSC/USK-426/CASEY WOOD/321 861-3918
JSC/DA8/WAYNE HALE/281 483-5431

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/04/95
RESPONSE TRACKING: Z2852 Z2884

[PRD] DATABASE RECORD: 344694 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/14/02
INITIAL DATE: 05/15/90
ITEM NUMBER: T43GK DATE LAST CHANGED: 01/23/07
SECTION: 2200 TIME LAST CHANGED: 08:15:42

REQUESTER: JSC
SUBREQUESTER: JSC/DV14
TEST CODE: STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S 20044S
TRACKING NO. GSFCREV06 KING2001 L005-4 L2733 L3514
L3539 L908-7 R109-13 R109-93 R3420
R8303
PRIORITY: MANDATORY
RATIONALE: MISSION SUCCESS

1. DESCRIPTION: MILA REAL TIME SUPPORT

CONTINUED

[PRD] DATABASE RECORD: 344694
ITEM NUMBER: T43GK

MILA WILL RECEIVE AND RECORD SSO PM AND FM TELEMETRY LINKS AND WILL DECOMMUTATE, PROCESS, AND REMOTE REAL TIME AND NON-REAL TIME PCM TELEMETRY.

I. RECEIVE AND RECORD
- A. 192 OR 96 KB/S (HDR/LDR) OPERATIONAL DOWNLINK (OD) CONTAINING MULTIPLEXED AND DIGITIZED VOICE.
- B. DATA ON FM DOWNLINK CONSISTING OF (ONE AT A TIME):
  - (1) MAIN ENGINE DATA (SSME); 3 CHANNELS AT 60 KB/S PER CHANNEL.
  - (2) DUMP OF ONE CHANNEL OF 60 KB/S OF SSME AT FOUR RATES OF 960 KBPS, AND 60 KBPS.
  - (3) DUMP OF 128 KB/S PCM TLM AT THREE RATES OF 1024 KBPS, 640 KBPS, AND 128 KBPS.
  - (4) DUMP OF 192 KB/S PCM TLM AT FOUR RATES OF 1536 KBPS, 1024 KBPS, 960 KBPS AND 192 KBPS.
  - (5) DUMP OF 96 KB/S PCM TLM AT THREE RATES OF 1024 KBPS, 768 KBPS, 480 KBPS, AND 96 KBPS.

II. PROCESSING OF OPERATIONAL DOWNLINK (OD) (ASYNCHRONOUS)
- A. REMOTE 192/128 KB/S TELEMETRY TO MCC VIA MIL.
- B. TIME TAG SHOULD REFLECT GMT OF RECEIPT OF FIRST DATA BIT IN EACH 4800 BIT BLOCK WITH AN ACCURACY OF PLUS OR MINUS 1.0 MILLISECOND.

POC: JSC/DA8/MICHAEL SARAFIN/281 483-4775

NOTE:
FOR HARDLINE REQUIREMENT SEE SECT. 2200 ITEM T15GK DBR 188978.

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/19/02
RESPONSE TRACKING: Z109-13 Z2753 Z3474 Z3551 Z8304

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2200 - TELEMETRY DATA

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 344694
ITEM NUMBER: T43GK

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/14/02

[PRD] DATABASE RECORD: 195137 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/04/07
INITIAL DATE: 11/14/89
ITEM NUMBER: T43.1K DATE LAST CHANGED: 04/04/07
SECTION: 2200 TIME LAST CHANGED: 08:13:18

REQUESTER: JSC
TEST CODE: STSALL

ASSOCIATED DOC: 20017S
TRACKING NO. KING2001 L2733 L3331 L3435 L3903
L908-7 L910-5 L911-5 R0704-2 R109-6
R3427 RTF114-1 SCRUB06

1. DESCRIPTION: ORBITER ONBOARD RECORDED DATA

JSC REQUIRES THE PLAYBACK, OF SSR 1/2 ORBITER DATA.
IF THE RECORDERS ARE OPERATIONAL DURING THIS TEST.

DATA PLAYBACK TO JSC ODRC VIA KMTS.

KSC/RPS/321 861-0830
KSC/RENEE HART/321 861-0988
JSC/TELCOM SYSTEMS MANAGER/JOHN CORNWELL/281 853-2274

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	PLAYBACK		ON REQUEST POST TEST	JSC/SSR 1/2

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: NE-C2 RPS USK-614

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 04/04/07
RESPONSE TRACKING: Z2753 Z3345 Z3942

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2200 - TELEMETRY DATA

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 195137
ITEM NUMBER: T43.1K

[PRD] DATABASE RECORD: 318351 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/13/06
INITIAL DATE: 06/14/89
ITEM NUMBER: K57GK DATE LAST CHANGED: 01/16/07
SECTION: 2200 TIME LAST CHANGED: 13:17:36

REQUESTER: KSC
SUBREQUESTER: KSC/NE--E3 KSC/PH-I KSC/PH-L
TEST CODE: ALS ELS LANDNG S61A03
STSALL USAELS
TRACKING NO. DB98 GSFCREV06 KING2001 L603-4 R0701-2
R109-6 R2809 R2865 R8108 SCRUB06
PRIORITY: MANDATORY
RATIONALE: REQUIRED REALTIME DOWNLINK TELEMETRY FOR ALS/ELS

1. DESCRIPTION: REAL TIME TELEMETRY - ALS/ELS
ALTERNATE LANDING SITE / EMERGENCY LANDING SITE

KSC REQUIRES DOWNLINK TELEMETRY DATA IN REAL TIME FROM THE ORBITER DURING TURNAROUND ACTIVITIES AT AN ALS/ELS FROM LANDING THROUGH ORBITER POWER DOWN AT LANDING SITE. DATA IS REQUIRED FROM ALS/ELS REMOTED VIA NISN TO KSC/MILA. MILA IS REQUIRED TO RECEIVE AND FORMAT THIS DATA (HIGH DATA RATE TELEMETRY, 192/128 KB/S OR LOW DATA RATE TELEMETRY, 96/64 KB/S AS RECEIVED FROM THE ORBITER) FOR INPUT TO LPS PER ICD. DATA WILL BE DISPLAYED IN REAL TIME.

TECH CONTACTS: DEAN SCHAAF/PH-L/321 861-9311
PETER JOHNSON/NE-E3/321 861-3863

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 01/16/07
RESPONSE: IF THE ALS/ELS (INCLUDING WSSH) IS WITHIN VIEW OF TDRS, REAL-TIME DOWNLINK TELEMETRY SUPPORT WILL BE PROVIDED THROUGH TDRS ON A BEST-EFFORT BASIS. SCHEDULING OF REQUIRED TDRS SUPPORT CAN BE ARRANGED THROUGH WSC SCHEDULING.

CONTINUED

[PRD] DATABASE RECORD: 318351
ITEM NUMBER: K57GK

RESPONSE TRACKING: Z2768 Z2856 Z7608 Z8112

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2 RPS USK-607

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 12/13/06
RESPONSE: KSC WILL PROVIDE FOR DISPLAY OF DATA RECEIVED ON CONSOLE IN LCC.

RESPONSE TRACKING: Z2856 Z8112

[PRD] DATABASE RECORD: 195051 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/14/97
INITIAL DATE: 06/04/90
ITEM NUMBER: H59G DATE LAST CHANGED: 01/15/07
SECTION: 2200 TIME LAST CHANGED: 10:23:31

REQUESTER: MSFC
SUBREQUESTER: M2806 MS150 MS194
TEST CODE: S61B05 STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. GSFCREV06 KING2001 L2744 L3554 L5536
L6703 ML003-90 ML013-90 R109-13 R3103
R8109 R8706
PRIORITY: MANDATORY
RATIONALE: REQUIRED REALTIME DOWNLINK TELEMETRY FOR ALS/ELS

1. DESCRIPTION: MILA AND PDL REAL TIME RECORDINGS

MILA AND PDL ARE TO RECORD ALL DATA IN A DIGITAL FORMAT (AFTER BIT SYNCHRONIZATION). PROVIDE MSFC WITH A PLAYBACK (UPON REQUEST) OF PCM OD OR FM SSME DATA.

NOTE: RECORDED DATA IS TO BE RETAINED ON STATION FOR 21 DAYS FROM EOM AND DURING THAT TIME WILL BE AVAILABLE FOR PLAYBACK. PLAYBACKS WILL BE SCHEDULED THROUGH THE GSFC NETWORK MANAGER. AFTER 21 DAYS, TAPES MAY BE DEGAUSSED. REQUESTS FOR DATA TO BE HELD BEYOND THE 21 DAYS WILL BE DIRECTED TO THE GSFC NETWORK MANAGER.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2200 - TELEMETRY DATA

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 195051
ITEM NUMBER: H59G

POC: MSFC/JOHN SCOTT/256 544-2938

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: I-PDL MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/14/97
RESPONSE TRACKING: Z2647 Z2759 Z3159 Z3561 Z5534
Z6711 Z8209 Z8709

[PRD] DATABASE RECORD: 307305 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/12/90
INITIAL DATE: 02/12/90
ITEM NUMBER: H61K DATE LAST CHANGED: 11/07/06
SECTION: 2200 TIME LAST CHANGED: 12:28:38

REQUESTER: MSFC
TEST CODE: KSC STSALL
TRACKING NO. KING2001 ML002-90 R109-6 R3102 SCRUB06
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: TROUBLE SHOOTING DATA

MSFC REQUIRES MAGNETIC TAPE, PLAYBACK, ANALOG MAGNETIC TAPE COPIES, COMPUTER DATA TAPES, COMPUTER PROCESSED DATA, ESMS AND OTHER SYSTEM DATA AS REQUIRED FOR TROUBLESHOOTING AND GROUND AND VEHICLE SYSTEMS PERFORMANCE ANALYSIS.

TECH CONTACT: KSC/RPS/321 861-0830
KSC/RENEE HART/321 861-0988
POC: MSFC/JOHN SCOTT/256 544-2938

DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	PER R/T REQUEST			UNITED SPACE ALLIANCE 555 DISCOVERY DRIVE HUNTSVILLE, AL. 35806

CONTINUED

[PRD] DATABASE RECORD: 307305
ITEM NUMBER: H61K

ATTN: DATA DISTRIBUTION
256 971-3068

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2 RPS USK-614

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 10/24/06
RESPONSE:
THE SOLE U.S. MANUFACTURER OF ANALOG INSTRUMENTATION TAPE CLOSED AND DECLARED BANKRUPTCY ON DEC. 31, 2004. FROM THE SUPPLY OF ANALOG TAPE REMAINING AT KSC, RPS WILL SUPPORT THE FIRST 2 POST COLUMBIA SHUTTLE FLIGHTS. AFTER THAT TIME RPS WILL NO LONGER BE ABLE TO MEET THE ANALOG TAPE REQUIREMENT OF THIS REQUEST. DATA WILL BE MADE AVAILABLE ON DIGITAL TAPE PRODUCED ON THE AMPEX DIS 162i/262i DUAL DENSITY RECORDER WITH AN L3 LAB ARMOR HIGH SPEED DATA MULTIPLEXER FRONT END.

10/24/2006 - THE MANUFACTURER IS CURRENTLY SUPPLYING ANALOG TAPE UPON REQUEST. THE REQUIREMENT FOR ANALOG TAPE WILL BE MET BY RPS UNLESS THE SUPPLY IS NO LONGER AVAILABLE.

RESPONSE TRACKING: Z2696 Z3103 Z3942

[PRD] DATABASE RECORD: 10337 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/04/03
INITIAL DATE: 08/01/89
ITEM NUMBER: H64.1GK DATE LAST CHANGED: 01/15/07
SECTION: 2200 TIME LAST CHANGED: 10:24:00

REQUESTER: MSFC
SUBREQUESTER: M2902 MS204
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. GSFCREV06 KING2001 L101-2 L2843 R109-6
R2627 R7104 RTF114-1
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: SSME REALTIME - LAUNCH

CONTINUED

[PRD] DATABASE RECORD: 10337
ITEM NUMBER: H64.1GK

MSFC REQUIRES SSME 60 KBPS REALTIME DATA FROM THE LAUNCH PAD VIA THE T-0 UMBILICAL AND FROM MIL/PDL VIA THE RF LINK.

DURATION: T-9 HRS THRU MILA/PDL LOS

THE THREE INDIVIDUAL DATA STREAMS (EIU-1, EIU-2, EIU-3) SHOULD BE TRANSMITTED VIA THE KSC-MSFC TRANSMISSION SYSTEM AS FOLLOWS:

DATA STREAM	T-9 HRS	T-55 MINS	T-0
EIU-1 (LINK A)	HARDLINE	RF	RF
EIU-2 (LINK A)	HARDLINE	RF	RF
EIU-3 (LINK A)	HARDLINE	RF	RF
EIU-1 (LINK B)	HARDLINE	HARDLINE	RF
EIU-2 (LINK B)	HARDLINE	HARDLINE	RF
EIU-3 (LINK B)	HARDLINE	HARDLINE	RF

MILA/PDL RF DATA SOURCE:

MILA DATA FROM FM XMTR ON (T-55 MIN) TO UPLINK CARRIER HANDOVER TO PDL (AFTER LIFTOFF).

PDL DATA FROM UPLINK CARRIER HANDOVER FROM MILA TO PDL UNTIL UPLINK CARRIER HANDOVER BACK TO MILA.

MILA DATA FROM UPLINK CARRIER HANDOVER FROM PDL THRU MIL LOS.

POC: KSC/RPS/321 861-0830
MSFC/DRC/JOHN SCOTT/256 544-2938
MSFC/SCOTT SCHUTZENHOFER/256 544-8496

TECH CONTACTS: KSC/RPS/321 861-0830
KSC/RENEE HART/321 861-0988

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: I-PDL MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2200 - TELEMETRY DATA

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 10337
ITEM NUMBER: H64.1GK

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/04/03
RESPONSE TRACKING: Z102-1 Z28117 Z7105

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 RPS

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/03/03
RESPONSE TRACKING: Z0311-1

[PRD] DATABASE RECORD: 10339 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/27/95
INITIAL DATE: 10/18/90
ITEM NUMBER: H64.3GK DATE LAST CHANGED: 11/16/06
SECTION: 2200 TIME LAST CHANGED: 07:13:11

REQUESTER: MSFC
SUBREQUESTER: MS204
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20037S
TRACKING NO. KING2001 L3840 ML003-90 R109-6 R2627
R3103 R7104
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: SSME REALTIME - PROPELLANT LOAD/TANKING TEST

MSFC REQUIRES SSME 60 KBPS REALTIME DATA FROM THE LAUNCH PAD VIA THE T-0 UMBILICAL.

DURATION: MAIN ENGINE CONTROLLER (MEC) POWER UP THROUGH END OF DETANK.

THE THREE INDIVIDUAL DATA STREAMS (EIU-1, EIU-2, EIU-3) SHOULD BE TRANSMITTED VIA THE KSC-MSFC TRANSMISSION SYSTEM. BOTH KMTS-A AND KMTS-B LINKS WILL BE USED IF BOTH ARE AVAILABLE.

TECH CONTACT: MSFC/DRC/JOHN SCOTT/256 544-2938
KSC/RENEE HART/321 861-0988
KSC/RPS/321 861-0830

CONTINUED

[PRD] DATABASE RECORD: 10339
ITEM NUMBER: H64.3GK

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: TONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/27/95
RESPONSE TRACKING: Z3138 Z3861 Z6912 Z7102 Z7105

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 RPS

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/27/95
RESPONSE TRACKING: Z26159 Z3104 Z3861 Z7202

[PRD] DATABASE RECORD: 7857 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/17/02
INITIAL DATE: 08/01/89
ITEM NUMBER: H68GK DATE LAST CHANGED: 11/16/06
SECTION: 2200 TIME LAST CHANGED: 07:13:09

REQUESTER: MSFC
SUBREQUESTER: M2902
TEST CODE: 21011V 21034V 21046V S61E02
STSALL

ASSOCIATED DOC: 20009S
TRACKING NO. KING2001 L2843 L3903 L7601 ML002-90
R109-19 R109-6 R2811 R3102 SCRUB06
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: SSME 60 KBPS DATA - ENGINE RESPONSE TEST (FRT)

(1) A. MSFC REQUIRES R/T OD AND SSME ENGINE DATA (THREE 60 KBPS STREAMS) VIA KSC MSFC TRANSMISSION SYSTEM. BOTH KMTS-A AND KMTS-B LINKS WILL BE USED IF BOTH ARE AVAILABLE.

(2) A. RPS RECORD IN R/T THE SSME (THREE 60 KBPS STREAMS) AND OD DATA FOR P/B TO MSFC VIA THE KMTS. P/B WILL BE BY REQUEST ONLY.

CONTINUED

[PRD] DATABASE RECORD: 7857
ITEM NUMBER: H68GK

B. MSFC WILL SCHEDULE A PLAYBACK OF THE FRT DATA FROM RPS. PLAYBACK WILL BE VIA THE KSC-MSFC TRANSMISSION SYSTEM (KMTS). MSFC WILL NOTIFY KSC RPS OF THE KMTS LINK TO USE FOR THE PLAYBACK. PLAYBACK WILL BE ALL THREE (3) ENGINES SIMULTANEOUSLY

IN FORWARD DIRECTION AT A 2:1 RATE (120 KBPS). KSC RPS WILL HOLD TAPE FOR 24 HOURS AFTER PLAYBACK TO MSFC.

C. IF P/B NOT SUCCESSFUL, MSFC WILL REQUIRE SHIPMENT OF A TAPE COPY.

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	MAG TAPE	1	ASAP	UNITED SPACE ALLIANCE 555 DISCOVERY DRIVE HUNTSVILLE, ALABAMA 35806 ATTN: DATA DISTRIBUTION CENTER 256 971-3068

POC: MSFC/DRC/JOHN SCOTT/256 544-2938

TECH CONTACTS: KSC/RENEE HART/321 861-0988
KSC/RPS/321 861-0830

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: TONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/04/02
RESPONSE TRACKING: Z109-6 Z28117 Z2813 Z3114 Z3942

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2 RPS USK-614

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 10/24/06
RESPONSE:
THE SOLE U.S. MANUFACTURER OF ANALOG INSTRUMENTATION TAPE CLOSED

CONTINUED

[PRD] DATABASE RECORD: 7857
ITEM NUMBER: H68GK

AND DECLARED BANKRUPTCY ON DEC. 31, 2004. FROM THE SUPPLY OF ANALOG TAPE REMAINING AT KSC, RPS WILL SUPPORT THE FIRST 2 POST COLUMBIA SHUTTLE FLIGHTS. AFTER THAT TIME RPS WILL NO LONGER BE ABLE TO MEET THE ANALOG TAPE REQUIREMENT OF THIS REQUEST. DATA WILL BE MADE AVAILABLE ON DIGITAL TAPE PRODUCED ON THE AMPEX DIS 162i/262i DUAL DENSITY RECORDER WITH AN L3 LAB ARMOR HIGH SPEED DATA MULTIPLEXER FRONT END.

10/24/2006 - THE MANUFACTURER IS CURRENTLY SUPPLYING ANALOG TAPE UPON REQUEST. THE REQUIREMENT FOR ANALOG TAPE WILL BE MET BY RPS UNLESS THE SUPPLY IS NO LONGER AVAILABLE.

RESPONSE TRACKING: Z109-14 Z2813 Z3103 Z3315 Z3942

[PRD] DATABASE RECORD: 9876 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/17/07
INITIAL DATE: 01/30/89
ITEM NUMBER: H70GK DATE LAST CHANGED: 02/01/07
SECTION: 2200 TIME LAST CHANGED: 07:10:38

REQUESTER: MSFC
TEST CODE: S61E16 STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. GSFCREV06 KING2001 L105-6 L2747 L2845
L2917 L3202 L3429 L3903 L4026
L901-10 L908-3 M2807 M2808 M2902
R0701-4 R109-6 R26239 R3007 SCRUB06
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: MAIN PROPULSION SYSTEM - MAG TAPE - RPS

MSFC REQUESTS RPS HAVE THE FOLLOWING DATA AVAILABLE FOR TAPE COPIES OR PLAYBACK: BEGINNING OF LH2 CHILLDOWN OR LAUNCH -8 HRS 54 MINUTES WHICHEVER OCCURS FIRST THRU KSC LOSS OF SIGNAL. PROVIDE TAPE COPIES AS REQUESTED UNDER DATA DISPOSITION.

MADS - FDM and PCM DATA
ORBITER OI PCMMU-1 AND PCMMU-2 (128KB)

CONTINUED

[PRD] DATABASE RECORD: 9876
ITEM NUMBER: H70GK

RF-OI PCMMU-1 (192KB) REALTIME DATA RECEIVED FROM MILA.
RF-OI PCMMU-2 (192KB) REALTIME DATA RECEIVED FROM MILA.
TIMING/VOICE COMPOSITE

ORBITER EIU PCM-1, PCM-2, AND PCM-3 (60KB) HARDLINE
ORBITER EIU PCM-1, PCM-2, AND PCM-3 MILA RF DATA:

COORDINATION: KSC/RENEE HART/321 861-0988
KSC/RPS/321 861-0830
MSFC/JOHN SCOTT/256 544-2983

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	1"ANALOG MAG TAPE	1	IF REQUESTED*	UNITED SPACE ALLIANCE 555 DISCOVERY DRIVE HUNTSVILLE, AL 35802 ATTN: DATA DISTRIBUTION 256 971-3068 *SEE NOTE 1

NOTE 1: MADS FDM AND PCM R/T DATA FROM MADS ACTIVATION THROUGH T-0 IS REQUIRED ON ANALOG TAPE EACH LAUNCH. SHIP TAPE ASAP AFTER T-0.
NOTE 2: RECORD ON 1 INCH ANALOG TAPE (MSFC WOULD PREFER 14 TRACK), CAN ACCEPT 28 TRACK AND INCLUDE TIMING ON TRACK 14/28.
NOTE 3: TAPE COPIES ARE REQUESTED TO BE CONFIGURED SO AS TO MINIMIZE THE NUMBER OF TAPES COPIED AND SENT

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/31/07
RESPONSE TRACKING: Z26155 Z2767 Z28118 Z2968 Z3009
Z3205 Z3467 Z3942 Z4031

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)

CONTINUED

[PRD] DATABASE RECORD: 9876
ITEM NUMBER: H70GK

SUBSUPPLIER: I-NE-C2 RPS

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 01/17/07
RESPONSE: THE SOLE U.S. MANUFACTURER OF ANALOG INSTRUMENTATION TAPE CL
OSED
AND DECLARED BANKRUPTCY ON DEC. 31, 2004. FROM THE SUPPLY OF ANALOG
TAPE REMAINING AT KSC, RPS WILL SUPPORT THE FIRST 2 POST COLUMBIA
SHUTTLE FLIGHTS. AFTER THAT TIME RPS WILL NO LONGER BE ABLE TO MEET
THE ANALOG TAPE REQUIREMENT OF THIS REQUEST. DATA WILL BE MADE
AVAILABLE ON DIGITAL TAPE PRODUCED ON THE AMPEX DIS 162i/262i DUAL
DENSITY RECORDER WITH AN L3 LAB ARMOR HIGH SPEED DATA MULTIPLEXER
FRONT END.

10/24/2006 - THE MANUFACTURER IS CURRENTLY SUPPLYING ANALOG TAPE UPON
REQUEST. THE REQUIREMENT FOR ANALOG TAPE WILL BE MET BY RPS UNLESS
THE SUPPLY IS NO LONGER AVAILABLE.

RESPONSE TRACKING:	Z26184	Z2696	Z2761	Z28118	Z2968
	Z3009	Z3205	Z3467	Z3942	Z4031

[PRD] DATABASE RECORD: 9891 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/05/03
INITIAL DATE: 07/27/89
ITEM NUMBER: H71GK DATE LAST CHANGED: 01/15/07
SECTION: 2200 TIME LAST CHANGED: 10:26:13

REQUESTER: MSFC
SUBREQUESTER: MS194 STSR44
TEST CODE: S61E16 STSALL

ASSOCIATED DOC:	20037S				
TRACKING NO.	GSFCREV06	KING2001	L105-6	L2617	L2833
	L2917	L3429	L3840	L3903	L4026
	L6703	L901-10	R109-6	R26239	R3007
	RTF114-1	SCRUB06			

PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: MAIN PROPULSION SYSTEM - MAG TAPE - RPS

CONTINUED

[PRD] DATABASE RECORD: 9891
ITEM NUMBER: H71GK

MSFC REQUESTS RPS HAVE THE FOLLOWING DATA AVAILABLE FOR TAPE COPIES AND/OR PLAYBACK. PROVIDE TAPE COPIES AS REQUESTED UNDER DATA DISPOSITION.

FROM BEGINNING OF TANKING THRU DETANKING:

MADS-FDM AND PCM DATA
ORBITER-OI PCMMU-1 AND PCMMU-2 (128KB)
RF-OI PCMMU-1 (192KB) R/T DATA FROM MILA
RF-OI PCMMU-2 (192KB) R/T DATA FROM MILA
TIMING/VOICE COMPOSITE
ORBITER EIU PCM-1,PCM-2 AND PCM-3 (60KB) HARDLINE DATA
ORBITER EIU PCM-1,PCM-2 AND PCM-3 MILA RF DATA

IF FLIGHT RECORDERS ARE TURNED ON HAVE DATA AVAILABLE AS FOLLOWS:
A. MADS FLIGHT RECORDER
B. SSR 1/2 FLIGHT RECORDERS

NOTE 1: RECORD ON 1 INCH ANALOG TAPE (MSFC WOULD PREFER 14 TRACK), CAN ACCEPT 28 TRACK AND INCLUDE TIMING ON TRACK 14/28.

NOTE 2: TAPE COPIES ARE REQUESTED TO BE CONFIGURED SO AS TO MINIMIZE THE NUMBER OF TAPES COPIED AND SENT.

COORDINATION: KSC/RENEE HART/321 861-0988
KSC/RPS/321 861-0830

TECH CONTACT: MSFC/EO60/PHILIP CAUTHEN/256 544-4204
MSFC/DRC/JOHN SCOTT/256 544-2938

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	1" ANALOG MAG TAPE (28 or 14 Tk.)	1	IF REQUESTED	UNITED SPACE ALLIANCE 555 DISCOVERY DRIVE HUNTSVILLE, AL 35802 ATTN: DATA DISTRIBUTION 256 971-3068

CONTINUED

[PRD] DATABASE RECORD: 9891
ITEM NUMBER: H71GK

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/26/03
RESPONSE TRACKING: Z26101 Z26155 Z28107 Z2968 Z3009
Z3467 Z3861 Z3942 Z4031 Z6711
ZRTF114-5

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2 RPS USK-614

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 10/24/06
RESPONSE: THE SOLE U.S. MANUFACTURER OF ANALOG INSTRUMENTATION TAPE CL
OSED
AND DECLARED BANKRUPTCY ON DEC. 31, 2004. FROM THE SUPPLY OF ANALOG
TAPE REMAINING AT KSC, RPS WILL SUPPORT THE FIRST 2 POST COLUMBIA
SHUTTLE FLIGHTS. AFTER THAT TIME RPS WILL NO LONGER BE ABLE TO MEET
THE ANALOG TAPE REQUIREMENT OF THIS REQUEST. DATA WILL BE MADE
AVAILABLE ON DIGITAL TAPE PRODUCED ON THE AMPEX DIS 162i/262i DUAL
DENSITY RECORDER WITH AN L3 LAB ARMOR HIGH SPEED DATA MULTIPLEXER
FRONT END.

10/24/2006 - THE MANUFACTURER IS CURRENTLY SUPPLYING ANALOG TAPE UPON
REQUEST. THE REQUIREMENT FOR ANALOG TAPE WILL BE MET BY RPS UNLESS
THE SUPPLY IS NO LONGER AVAILABLE.

RESPONSE TRACKING: Z26101 Z2696 Z2722 Z28107 Z2968
Z3009 Z3467 Z3861 Z3942 Z4031
Z6708

[PRD] DATABASE RECORD: 10340 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/24/02
INITIAL DATE: 09/17/87
ITEM NUMBER: H74GK DATE LAST CHANGED: 01/25/07
SECTION: 2200 TIME LAST CHANGED: 11:56:47

REQUESTER: MSFC
SUBREQUESTER: MS237

CONTINUED

[PRD] DATABASE RECORD: 10340
ITEM NUMBER: H74GK

TEST CODE: KSC STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. GSFCREV06 KING2001 L111-1 L7611 ML004-90
R109-6 R2627 R3104 SCRUB06
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: ORBITER DOWNLINK (OD) DATA REALTIME - LAUNCH

MSFC REQUIRES REALTIME OD DATA FROM THE LAUNCH PAD VIA THE T-0 UMBILICAL AND RF FROM MILA VIA THE MILA/KSC-DIRECT CIRCUIT.

DURATION: CTS THROUGH MECO + 70 MINUTES
DATA RATE: 64 /96 /128 /192 KBPS

DATA SHOULD BE TRANSMITTED VIA THE KSC-MSFC TRANSMISSION SYSTEM (KMTS) AS FOLLOWS:

DATA STREAM	CTS	T-2H30M	T-0
OD (LINK A)	T-0 UMBILICAL	T-0 UMBILICAL	MILA-DIRECT
OD (LINK B)	T-0 UMBILICAL	MILA-DIRECT	MILA-DIRECT

POC: MSFC/DRC/JOHN SCOTT/256 544-2938

TECH CONTACT: KSC/RENEE HART/321 861-0988
KSC/RPS/321 861-0830

NOTE: THE REQUIREMENT FOR OD REALTIME DATA VIA THE GSFC CLOSED IONET CIRCUIT (WITH JSC OD-FEEDBACK) IS AND WILL REMAIN THE PRIME SOURCE OF OD DATA WHEN THE RF SYSTEM IS UP AND JSC IS ON-LINE (REF: FLS2200, H1.5GT, DBR 008402).

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/29/02
RESPONSE TRACKING: Z111-2 Z3138 Z3522 Z7609

CONTINUED

[PRD] DATABASE RECORD: 10340
ITEM NUMBER: H74GK

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-NE-C2 RPS

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/24/02
RESPONSE TRACKING: Z26159 Z3105 Z3312 Z3418 Z3522
Z3589 Z3935 Z4338

[PRD] DATABASE RECORD: 10343 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/09/06
INITIAL DATE: 05/03/90
ITEM NUMBER: H74.3GK DATE LAST CHANGED: 01/15/07
SECTION: 2200 TIME LAST CHANGED: 10:26:55

REQUESTER: MSFC
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20017S
TRACKING NO. GSFCREV06 KING2001 L3515 L6908 R109-19
R109-6 R2627 RTF114-4
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: OD/SSME - S0017 PRELAUNCH TEST

MSFC REQUIRES REALTIME OD AND SSME DATA FROM THE LAUNCH PAD VIA THE T-0 UMBILICAL AND RF FROM MILA.

DURATION: START OF TEST THROUGH END OF TEST
DATA RATE: 128 /192 KBS OD AND 60 KBS SSME

THE DATA SHOULD BE TRANSMITTED VIA THE KSC MSFC TRANSMISSION SYSTEM. BOTH KMTS-A AND KMTS-B LINKS WILL BE USED IF BOTH ARE AVAILABLE.

DATA SOURCE AND ROUTING:

STREAM	CTS	T-12 HRS	T-2H30M	T-55 MINS
LINK-A OD	T-0 UMBILICAL	T-0 UMBILICAL	T-0 UMBILICAL	T-0 UMBILICAL
LINK-A EIU-1		HARDLINE	HARDLINE	RF

CONTINUED

[PRD] DATABASE RECORD: 10343
ITEM NUMBER: H74.3GK

LINK-A EIU-2		HARDLINE	HARDLINE	RF
LINK-A EIU-3		HARDLINE	HARDLINE	RF
LINK-B OD	T-0 UMBILICAL	T-0 UMBILICAL	MILA-DIRECT	MILA-DIRECT
LINK-B EIU-1		HARDLINE	HARDLINE	HARDLINE
LINK-B EIU-2		HARDLINE	HARDLINE	HARDLINE
LINK-B EIU-3		HARDLINE	HARDLINE	HARDLINE

RPS IS REQUIRED TO RECORD DATA FOR PLAYBACK IN THE EVENT
REALTIME TRANSMISSION IS NOT SUCCESSFUL.

POC: MSFC/DRC/JOHN SCOTT/256 544-2938

REQUESTER: MSFC/GARY DEMPSEY/256 544-5113

TECH CONTACT: KSC/RENEE HART/321 861-0988
KSC/RPS/321 861-0830

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: TONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/09/06
RESPONSE TRACKING: Z0312-3 Z109-9 Z3522 Z7306

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 RPS

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/09/06
RESPONSE TRACKING: Z109-8 Z26159 Z3418 Z3522 Z3589
Z3935 Z4306 Z4338 Z7202

[PRD] DATABASE RECORD: 15685 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/13/03
INITIAL DATE: 05/03/90
ITEM NUMBER: H74.4GK DATE LAST CHANGED: 11/20/06
SECTION: 2200 TIME LAST CHANGED: 08:49:43

REQUESTER: MSFC
SUBREQUESTER: MS088 MS204 STSR38

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2200 - TELEMETRY DATA

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 15685
ITEM NUMBER: H74.4GK

TEST CODE: STSALL

ASSOCIATED DOC: 20008S 20009S 25009S
TRACKING NO. KING2001 L2613 L3515 L4402 R109-6
R7104 RTF114-4 SCRUB06
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: OD REALTIME - PRELAUNCH TESTS

MSFC REQUIRES REALTIME OD DATA TRANSMITTED VIA THE KSC MSFC TRANSMISSION SYSTEM. BOTH KMTS-A AND KMTS-B LINKS WILL BE USED IF BOTH ARE AVAILABLE.

RPS IS REQUIRED TO RECORD DATA FOR PLAYBACK OR MAGNETIC TAPE SHIPMENT IN THE EVENT REALTIME TRANSMISSION IS NOT SUCCESSFUL.

DURATION: START OF TEST THROUGH END OF TEST.
DATA RATE: 64 / 96 / 128 /192 KBS

POC: MSFC/DRC/JOHN SCOTT/256 544-2938

REQUESTER: MSFC/GARY DEMPSEY/256 544-5113

TECH CONTACT: KSC/RENEE HART/321 861-0988
KSC/RPS/321 861-0830

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: TONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/11/03
RESPONSE TRACKING: Z0312-3 Z2687 Z3522 Z4436 Z7105

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 RPS

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 10/24/06
RESPONSE:
THE SOLE U.S. MANUFACTURER OF ANALOG INSTRUMENTATION TAPE CLOSED

CONTINUED

[PRD] DATABASE RECORD: 15685
ITEM NUMBER: H74.4GK

AND DECLARED BANKRUPTCY ON DEC. 31, 2004. FROM THE SUPPLY OF ANALOG TAPE REMAINING AT KSC, RPS WILL SUPPORT THE FIRST 2 POST COLUMBIA SHUTTLE FLIGHTS. AFTER THAT TIME RPS WILL NO LONGER BE ABLE TO MEET THE ANALOG TAPE REQUIREMENT OF THIS REQUEST. DATA WILL BE MADE AVAILABLE ON DIGITAL TAPE PRODUCED ON THE AMPEX DIS 162i/262i DUAL DENSITY RECORDER WITH AN L3 LAB ARMOR HIGH SPEED DATA MULTIPLEXER FRONT END.

10/24/2006 - THE MANUFACTURER IS CURRENTLY SUPPLYING ANALOG TAPE UPON REQUEST. THE REQUIREMENT FOR ANALOG WILL BE MET BY RPS UNLESS THE SUPPLY IS NO LONGER AVAILABLE.

RESPONSE TRACKING: Z2687 Z3522 Z3589 Z3935 Z4338
Z4436 Z6909 Z6912

[PRD] DATABASE RECORD: 19989 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/17/02
INITIAL DATE: 10/18/90
ITEM NUMBER: H74.5GK DATE LAST CHANGED: 11/20/06
SECTION: 2200 TIME LAST CHANGED: 09:10:38

REQUESTER: MSFC
SUBREQUESTER: MS204
TEST CODE: STSALL

ASSOCIATED DOC: 20024S 20037S
TRACKING NO. KING2001 L3309 L3515 L3840 LSRR33001
R109-19 R109-6 R7104 SCRUB06
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: OD REALTIME - PRELAUNCH TESTS

MSFC REQUIRES REALTIME OD DATA TRANSMITTED VIA THE KSC MSFC TRANSMISSION SYSTEM. BOTH KMTS-A AND KMTS-B LINKS WILL BE USED IF BOTH ARE AVAILABLE.

DURATION: START OF TEST TO END OF TEST (S0024)
START OF TEST THRU DETANKING (S0037)
DATA RATE: 64 / 96 / 128 / 192 KBS

CONTINUED

[PRD] DATABASE RECORD: 19989
ITEM NUMBER: H74.5GK

RPS IS REQUIRED TO RECORD DATA FOR PLAYBACK OR MAGNETIC TAPE
SHIPMENT IN THE EVENT REALTIME TRANSMISSION IS NOT SUCCESSFUL.

TECH CONTACT: KSC/RENEE HART/321 861-0988
KSC/RPS/321 861-0830
MSFC/JOHN SCOTT/256 544-2938

REQUESTER: MSFC/GARY DEMPSEY/256 544-5113

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: TONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/04/02
RESPONSE TRACKING: Z109-9 Z3309 Z3522 Z3861

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 RPS

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 10/24/06
RESPONSE:
THE SOLE U.S. MANUFACTURER OF ANALOG INSTRUMENTATION TAPE CLOSED AND DECLARED BANKRUPTCY ON DEC. 31, 2004. FROM THE SUPPLY OF ANALOG TAPE REMAINING AT KSC, RPS WILL SUPPORT THE FIRST 2 POST COLUMBIA SHUTTLE FLIGHTS. AFTER THAT TIME RPS WILL NO LONGER BE ABLE TO MEET THE ANALOG TAPE REQUIREMENT OF THIS REQUEST. DATA WILL BE MADE AVAILABLE ON DIGITAL TAPE PRODUCED ON THE AMPEX DIS 162i/262i DUAL DENSITY RECORDER WITH AN L3 LAB ARMOR HIGH SPEED DATA MULTIPLEXER FRONT END.

10/24/2006 - THE MANUFACTURER IS CURRENTLY SUPPLYING ANALOG TAPE UPON REQUEST. THE REQUIREMENT FOR ANALOG TAPE WILL BE MET BY RPS UNLESS THE SUPPLY IS NO LONGER AVAILABLE.

RESPONSE TRACKING: Z109-8 Z3309 Z3335 Z3522 Z3589
Z3861 Z3935 Z4306 Z4338 Z6912

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2200 - TELEMETRY DATA

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 15687 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/17/02
INITIAL DATE: 05/14/90
ITEM NUMBER: H79GK DATE LAST CHANGED: 02/19/07
SECTION: 2200 TIME LAST CHANGED: 10:49:33

REQUESTER: MSFC
SUBREQUESTER: MS063 MS194 MS204 STSR38
STSR44
TEST CODE: KSC S0024.101 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20008S 20009S 20017S
20024S 20037S 20044S 25009S
TRACKING NO. KING2001 L2613 L2617 L3534 L4311
L5329 L6703 ML012-90 R109-13 R109-19
R7104 R7109 RSRR136
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: SHUTTLE DATA CENTER (SDC)

MSFC REQUIRES ACCESS TO THE SDC DATA AT KSC VIA INTRANET CONNECTION.

POC: MSFC/JACKIE WALKER/256 971-3068
MSFC/JOHN SCOTT/256 544-2938
KSC/USK-615/KEITH NELSON/321 861-0559

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/04/02
RESPONSE TRACKING: Z109-9 Z26101 Z2687 Z3536 Z4339
Z5323 Z6711

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 SDC

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/17/02
RESPONSE TRACKING: Z26101 Z2687 Z3536 Z4339 Z5323
Z6716 Z6912

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2200 - TELEMETRY DATA

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 15687
ITEM NUMBER: H79GK

[PRD] DATABASE RECORD: 16363 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/09/06
INITIAL DATE: 02/05/91
ITEM NUMBER: T82KT DATE LAST CHANGED: 06/05/07
SECTION: 2200 TIME LAST CHANGED: 10:23:18

REQUESTER: JSC
SUBREQUESTER: I-MILA JSC/MV MER
TEST CODE: STSALL

ASSOCIATED DOC: 20007S

TRACKING NO.	A106-1	KING2001	L004-1	L04-2-1	L06-11-4
	L101-10	L102-2	L102-5	L109-2	L305-4
	L3133	L3139	L3904	L3926	L4824
	L504-4	L508-1	L508-6	L5718	L605-3
	L7001	L702-1	L708-4	L711-1	L7901
	L8209	L8602	L8706	L901-2	L905-2
	L907-1	L907-7	L908-7	L912-7	L9305
	R0402-1	R0611-3	R109-6	R109-93	R2701
	R2804	R2820	R2878	R3007	R3427
	R3446	R3704	R3935	R7801	R7902
	R9310	SHAW95			

1. DESCRIPTION: REAL-TIME ORBITER AND SHUTTLE, MAIN ENGINE DATA
MAIN ENGINE DUMP DATA (60 KBS)

JSC REQUESTS MISSION TELEMETRY DATA (192/128 KBPS) AND REAL-TIME/DUMP MAIN ENGINE DATA TRANSMISSION ON THE KSC-JSC MER LPS DATA LINK TO JSC.

1. A COMMUNICATIONS PATCH IS REQUIRED AT JSC BLDG 30 TO TRANSMIT SHUTTLE DATA TO THE SHUTTLE AVIONICS INTEGRATION LABORATORY (SAIL) BLDG 16, AND ORBITER DATA REDUCTION COMPLEX (ODRC).

THE FOLLOWING REAL-TIME DATA STREAMS ARE REQUIRED:

A. 128 KBPS T-0 UMBILICAL DATA STREAM FROM APPROXIMATELY T-57 HOURS (GPS ACTIVATION FOR ALMANAC COLLECTION) T-45 MIN.
B. SHUTTLE MAIN ENGINE (ME) DATA (ME) DATA 60 KBPS (3) STREAMS OF MILA RF FROM T-45 MINUTES TO MILA LOS WILL BE TRANSMITTED TO JSC

CONTINUED

[PRD] DATABASE RECORD: 16363
ITEM NUMBER: T82KT

IN REALTIME. PDL IS REQUIRED TO ROUTE SSME DATA TO MILA IN REALTIME.

C. 192 KBPS OD RF TRANSMISSION (MILA ANTENNA) AT APPROXIMATELY T-45 MINUTES THROUGH MILA LOS.

D. FOR KSC LANDING, TRANSMIT 192 KBPS OD RF (MILA ANTENNA) FROM MILA AOS THROUGH LANDING +6H.

E. FOR NON-KSC LANDING, TRANSMIT 192 KBPS OD DOWNLINK THROUGH LANDINGS +6H.

F. THE 128 KBPS T-0 UMBILICAL DATA STREAM AND THE 192 KBPS ORBITER DATA STREAM WILL NOT BE TRANSMITTED CONCURRENTLY.

REFERENCE: LLS SECTION 2736 ITEM T14GKT DBR 013959

2. A POST LAUNCH PLAYBACK OF THE ORBITER DUMP OF THE ME DATA IS REQUESTED VIA THE KMTS DATA LINK TO JSC ODRC, AND JSC SAIL, BLDG 16.

A. SAIL MAY RECORD THE PLAYBACK OF THE ORBITER DUMP OF THE 3 ME 60 KBPS DATA (3) STREAMS.

B. A PLAYBACK OF THE ORBITER DUMP OF THE MAIN ENGINE DATA FROM KSC RPS IS REQUIRED VIA THE KMTS DATA LINK TO JSC ODRC, AND JSC SAIL BLDG 16. KSC LPS RPS WILL PLAY BACK AT 60 KBPS (1:1 RATE) THE SSME DUMP DATA, ALL ENGINES SIMULTANEOUSLY IN A FORWARD DIRECTION, AND IN A NON-INVERTED MODE.

NOTE : RPS PLAYBACK OF THE 3 SSME DATA STREAMS WILL BE COORDINATED REALTIME WITH HOUSTON DFE VOICE LOOP OIS-238 OR 281-483-2411. RPS TEST CONDUCTOR PHONE IS 321 861-0830/861-6212.

TECH CONTACTS: JSC/MV/DAVID MOYER/281 483-0893
JSC/SAIL TEST CONDUCTOR/281 483-1732
JSC/EV151/BILL RITZ/281 483-1574
KSC/RPS/321 861-0830
KSC/RPS/RENEE HART/321 861-0988

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 RPS

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/09/06

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2200 - TELEMETRY DATA

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 16363
ITEM NUMBER: T82KT

RESPONSE TRACKING: Z109-14 Z2736 Z2863 Z3009 Z3167
Z3177 Z3442 Z3605 Z3958 Z3961
Z4828 Z5724 Z6912 Z7308 Z8112
Z8218 Z8604 Z8719 Z9323

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/09/06
RESPONSE TRACKING: Z3961 Z4828 Z5724 Z6924 Z6938
Z7008 Z7801 Z8218 Z8604 Z8719
Z9312 Z9323

[PRD] DATABASE RECORD: 17062 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/02/91
INITIAL DATE: 08/18/89
ITEM NUMBER: T86GX DATE LAST CHANGED: 03/20/07
SECTION: 2200 TIME LAST CHANGED: 07:49:35

REQUESTER: JSC
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. L105-1 L4005 L908-6 L908-7 R109-13
R2917 R3420 R3426

1. DESCRIPTION: DFRC REAL-TIME SUPPORT

THE DFRC TELEMETRY SYSTEM IS REQUIRED TO RECEIVE, RECORD IN THE GN OR SN TELEMETRY MODE, AND REMOTE THE SSO 192/96 KB/S OD DOWNLINK FOR ORBITER LANDINGS AT EAFB. SUPPORT IS REQUIRED FROM ORBITER A0S UNTIL L+12 HRS. IF ORBITER REMAINS POWERED AND KSC IS UNABLE TO RECEIVE/PROCESS TELEMETRY, THEN DFRC-TO-MCC TELEMETRY SUPPORT IS REQUIRED UNTIL KSC RESTORATION IS ACCOMPLISHED.

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 17062
ITEM NUMBER: T86GX

1	ANALOG MAG TAPE OF OD DATA FROM ORBITER AOS THRU LD + 2 HOURS.	1	ASAP	JSC/ORDC/ C. E. WISNOSKI DATA MGR./ 281 282-2962

RECORDED DATA CONTACT: JSC/EC32/L. PALMER/281 483-8827

COORDINATION CONTACTS: JSC/DF24/SARAH MURRAY/281 483-4061
JSC/USH-443N/GC MANAGER/281 483-6879

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/06/91
RESPONSE TRACKING: Z2961 Z3108 Z3487 Z3572 Z4010

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/21/91
RESPONSE TRACKING: Z2936 Z3572 Z3641 Z4016

[PRD] DATABASE RECORD: 18955 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/17/95
INITIAL DATE: 06/26/89
ITEM NUMBER: T90EG DATE LAST CHANGED: 01/23/07
SECTION: 2200 TIME LAST CHANGED: 08:16:14

REQUESTER: JSC
SUBREQUESTER: I-JDMTA JSC/DV14
TEST CODE: PREFLT STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. A4501 GSFCREV06 KING2001 L201-2 L906-7
R109-13 R2871 SHAW95
PRIORITY: MANDATORY
RATIONALE: MISSION SUCCESS - LAUNCH COMMIT CRITERIA

1. DESCRIPTION: JDMTA S-BAND OD TELEMETRY

CONTINUED

[PRD] DATABASE RECORD: 18955
ITEM NUMBER: T90EG

JSC REQUIRES THAT JDMTA S-BAND OD TELEMETRY BE AVAILABLE AT MILA FOR INPUT TO THE MILA BEST SOURCE SELECTION PROCESSING EQUIPMENT. THIS WOULD BE USED IN THE EVENT OF A PDL RF SYSTEM FAILURE DURING PRELAUNCH AND/OR ASCENT PHASES OF THE MISSION.

REFERENCE: ITEM E2EGK, SECTION 2766, DBR 310959

PRIME REQUESTER: JSC/DA8/MICHAEL SARAFIN/281 483-4775
TECHNICAL CONTACT: JSC/DV/GC MANAGER/281 483-6879

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/17/95
RESPONSE TRACKING: Z2882 Z6213

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: I-PDL MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/17/95
RESPONSE TRACKING: Z28126 Z2859 Z2875

[PRD] DATABASE RECORD: 19087 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/20/04
INITIAL DATE: 01/02/90
ITEM NUMBER: T91K DATE LAST CHANGED: 06/05/07
SECTION: 2200 TIME LAST CHANGED: 10:23:58

REQUESTER: JSC
TEST CODE: 29001V 29002S OPF STSALL

ASSOCIATED DOC: 20007S 29001S
TRACKING NO. KING2001 L04-2-1 L109-6 L209-5 L2837
L3226 L508-1 L508-4 L5210 L711-2
L8707 L907-13 L912-5 R0402-1 R109-13
R4409 SHAW95

CONTINUED

[PRD] DATABASE RECORD: 19087
ITEM NUMBER: T91K

PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: MADS TURNAROUND VERIFICATION DATA

WHENEVER SNAPSHOTS OF THE MADS MEASUREMENT IDENTIFICATION (MSID) STATUS ARE TAKEN PER OMI (S0007,S9001,S9002,V9001), JSC REQUESTS A COPY BE PROVIDED TO JSC. SEE DATA DISPOSITION.

POC: JSC/EV151/JOHN MILLER/281 483-6908
TECHINCAL CONTACT: KSC/JEFF HUET/USK-194/321 861-4261

DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	TABULAR PRINTOUT	1	ASAP	J. MILLER/EV151/ 281 483-6908

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-PK-F1 I-TA RPS
USK-194

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/20/04
RESPONSE TRACKING: Z28111 Z3226 Z4407 Z5209 Z7202
Z7204 Z8720

[PRD] DATABASE RECORD: 19996 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/25/02
INITIAL DATE: 11/10/89
ITEM NUMBER: K93GK DATE LAST CHANGED: 01/15/07
SECTION: 2200 TIME LAST CHANGED: 10:31:23

REQUESTER: KSC
SUBREQUESTER: KSC/NE-E1
TEST CODE: STSALL

CONTINUED

[PRD] DATABASE RECORD: 19996
ITEM NUMBER: K93GK

ASSOCIATED DOC: 20007S 20017S 20028S
TRACKING NO. GSFCREV06 KING2001 L3313 L3323 L4304
R107-1 R109-6 SCRUB06 SHAW95
PRIORITY: MANDATORY
RATIONALE: ONLY SOURCE TO VERIFY IF UPLINK COMMANDING IS CORRECT.
NEED TO VERIFY LCC ITEM.

1. DESCRIPTION: VERIFICATION RECEIVER AND DECRYPTION

PROVIDE A VERIFICATION RECEIVER TO MONITOR THE OUTPUT OF THE MILA EXCITER. THE OUTPUT OF THE RECEIVER WILL BE SENT TO RPS FOR RECORDING AND EVALUATION. THIS CAPABILITY IS REQUIRED FOR S0007 (FROM L-25 HR TO NEGATIVE AOA HAS BEEN DECLARED), S0017 (FROM T-18 HR TO T+20 MIN) AND S0028 (FROM L-1 HR TO L+24 HRS), FOR ALL MISSIONS. DECRYPTION WILL BE REQUIRED FOR NASA MISSIONS.

TECH CONTACTS: RICHARD ROGERS/NE-E1/321 861-3854

REF LLS2766, ITEM K70GK, DBR 019997

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/11/02
RESPONSE TRACKING: Z107-5 Z3212 Z3603 Z4322

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: PH-K3 RPS

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/25/02
RESPONSE TRACKING: Z107-1 Z3334 Z4322

[PRD] DATABASE RECORD: 21064 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/06/97
INITIAL DATE: 04/19/90
ITEM NUMBER: H94K DATE LAST CHANGED: 01/25/07
SECTION: 2200 TIME LAST CHANGED: 11:58:52

CONTINUED

[PRD] DATABASE RECORD: 21064
ITEM NUMBER: H94K

REQUESTER: MSFC
SUBREQUESTER: MS063
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20009S
TRACKING NO. KING2001 L3512 L4311 L6908 ML001-90
ML011-90 R109-6 R3105 R8601
PRIORITY: MANDATORY
RATIONALE: SAFETY - PERFORMANCE DATA USED TO CALCULATE PROPELLANT MEAN BULK TEMPERATURE (PMBT). REFERENCE OMRS REQUIREMENT S00FA0.600.

1. DESCRIPTION: REAL-TIME SRM JOINT SURFACE & AMB TEMP DATA

MSFC REQUIRES SRM JOINT HEATER SENSOR TEMPERATURE AND GROUND ENVIROMENTAL INSTRUMENTATION (GEI) DATA FROM START OF PAD VALIDATION (S0009) THRU LIFT-OFF.

DATA IS TO BE TRANSMITTED CONTINOUSLY FROM LPS TO HOSC VIA SHUTTLE DATA STREAM.

POC: MSFC/DRC/JOHN SCOTT/256 544-2938
THIOKOL CORP./SYD HENDERSON/435 863-3261

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 USK-607

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/07/97
RESPONSE TRACKING: Z3175 Z3520 Z4339 Z7202 Z8601

[PRD] DATABASE RECORD: 524176 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/13/06
INITIAL DATE: 09/07/93
ITEM NUMBER: K102GK DATE LAST CHANGED: 01/16/07
SECTION: 2200 TIME LAST CHANGED: 13:18:11

REQUESTER: KSC
SUBREQUESTER: KSC/NE-E3
TEST CODE: STSALL

CONTINUED

[PRD] DATABASE RECORD: 524176
ITEM NUMBER: K102GK

ASSOCIATED DOC: 20028S
TRACKING NO. DB98 GSFCREV06 KING2001 R0612-1 R0701-2
R109-6 R5812 R8109 R8703 SCRUB06
PRIORITY: MANDATORY
RATIONALE: DATA DROP OUTS DURING ROLL-IN FROM THE SLF TO OPF.

1. DESCRIPTION: POST LANDING 192/128 KBPS DATA BY MILA

DURING POST LANDING OPERATIONS AT KSC, MILA IS REQUESTED TO RECORD THE MILA 192/128 KBPS OUTPUT TO THE LCC FROM THE TIME THE ORBITER ENTERS THE OPF BAY UNTIL THE TIME THAT MILA IS RELEASED.

NOTE: MILA WILL RETAIN RECORDED 192/128 KBPS DATA ON STATION FOR 21 DAYS FROM EOM AND DURING THAT TIME 192/128 KBPS WILL BE AVAILABLE FOR PLAYBACK. PLAYBACKS WILL BE SCHEDULED THROUGH THE GSFC NETWORK DIRECTOR. AFTER 21 DAYS FROM EOM, MILA-TO-LCC 192/128 KBPS TAPES MAY BE DEGAUSSED. REQUESTS FOR DATA TO BE HELD BEYOND THE 21 DAYS WILL BE DIRECTED TO THE GSFC NETWORK DIRECTOR.

TECH CONTACT: KSC/PETER JOHNSON/NE-E3/321 861-3863

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/16/07
RESPONSE TRACKING: Z5814 Z8209 Z8704

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 USK-614

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/13/06
RESPONSE TRACKING: Z5814 Z8201 Z8704

[PRD] DATABASE RECORD: 528035 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/10/07
INITIAL DATE: 09/14/94
ITEM NUMBER: HKT103KT DATE LAST CHANGED: 05/17/07
SECTION: 2200 TIME LAST CHANGED: 10:27:20

CONTINUED

[PRD] DATABASE RECORD: 528035
ITEM NUMBER: HKT103KT

REQUESTER:	MSFC	KSC	JSC		
SUBREQUESTER:	JSC/MV	KSC/NE-E	KSC/RPS	MS255	
	MSFC/EO60				
TEST CODE:	21200V	KSC	STSALL		
ASSOCIATED DOC:	20014S	20028S			
TRACKING NO.	A106-1	DB98	KING2001	L012-1	L04-2-1
	L05-10-1	L114-1	L410-1	L507-3	L508-2
	L603-6	L609-3	L610-5	L610-6	L611-1
	L6602	L6823	L702-3	L8003	L8010
	L8013	L811-1	L812-3	L8208	L901-2
	L906-1	R0402-1	R0403-2	R0612-1	R0701-2
	R109-6	R7703	R8102	R8302	R8801
	R9303	R9310	R9314	R9801	RTF114-1
	SCRUB06	SHAW95			
PRIORITY:	REQUIRED				
RATIONALE:	DATA DUMP FROM RECORDERS IS DISTRIBUTED TO ALL OTHER USERS.				

1. DESCRIPTION: ORBITER RECORDER DATA

JSC, MSFC AND KSC REQUIRE RPS TO RECORD AND PROVIDE THE ORBITER RECORDER DATA, DUMPED POSTFLIGHT.

THE MADS RECORDER DUMP WILL BE GIVEN TOP PRIORITY.

NOTE 1. ALL TAPES ARE 14 TRACK EXCEPT AS NOTED.

NOTE 2. DISPOSITION 4:
FROM FLIGHT READINESS TEST ONLY.

NOTE 3. ALL DATA DISPOSITION TIMES ARE AFTER ORIGINAL DUMP IS RECEIVED AND VERIFIED BY RPS.

NOTE 4. IN CASES WHERE THERE ARE HARDWARE OR LOGISTICAL PROBLEMS, MSFC REQUIREMENTS WILL RECEIVE SATISFACTION FIRST.

NOTE 5. JSC WILL SUPPLY KSC RPS AND DATA RECIPIENT WITH POST MISSION INCO LOGS.

CONTINUED

[PRD] DATABASE RECORD: 528035
ITEM NUMBER: HKT103KT

NOTE 6. KSC RPS SHALL PROVIDE ALL AVAILABLE MADS DATA TO MSFC, INCLUDING HISTORICAL DATA UPON REQUEST. MSFC HAS THE REQUIREMENT TO PROCESS AND STORE ALL MADS FM AND PCM DATA FOR THE SHUTTLE PROGRAM.

NOTE 7. KSC RPS SHALL PROVIDE ALL MADS PCM MISSION DATA TO JSC ODRC VIA KMTS.

CONTACTS: MSFC/EO60/PHILIP CAUTHEN/256 544-4204
MSFC/JOHN SCOTT/256 544-2938
KSC/NE-E3/PETER JOHNSON/321 861-3863
KSC/RPS/321 861-0830
KSC/RPS/RENEE HART/321 861-0988
JSC/MV/KENNETH BROWN/281 483-3891

DATA DISPOSITION:

REF.	DATA TYPE	QTY	TIME	RECIPIENT/REMARKS
1	SSR-1 AND SSR-2	ORIG	WHAV	KSC/MASTER COPY
2	MADS RCDR (INCLUDE PRELAUNCH & POST MISSION CALS)	ORIG	WHAV	KSC/MASTER COPY
		1	48HRS	THE BOEING COMPANY 5301 BOLSA AVE. HUNTINGTON BEACH, CA ATTN: SCOTT FLEMING BLDG. 17/4 MAILCODE: CCS02 714 372-9432 714 305-7790 (CELL) SCOTT.T.FLEMING@BOEING.COM
		2	48HRS	JSC/EV212

CONTINUED

[PRD] DATABASE RECORD: 528035
ITEM NUMBER: HKT103KT

				DWIGHT FAVORS 2101 NASA RD. 1 BLDG 16A ROOM 2008 281 483-5458 (14 & 28 TRACK)
		1	48HRS	MSFC/USA 555 DISCOVERY DR. HUNTSVILLE, AL 35806 ATTN: JACKIE WALKER 256 971-3068
3	MADS RCDR ASCENT DATA (T-9M THRU MECO + 15 SEC) (INCLUDE PRELAUNCH CALS & ALL ACTIVE FDM & PCM DATA	1	48HRS	KSC/HQTS LLOYD ALBRIGHT (INCLUDE IRIG-B TIMING) SGS-139, HDQTRS 321-867-3430
4	MADS/REALTIME (FRF ONLY)	1		JSC/MER/MV MARILYN BORCHERS 281 483-3408
		1		THE BOEING COMPANY 5301 BOLSA AVE. HUNTINGTON BEACH, CA 92647 ATTN: SCOTT FLEMING BLDG. 17/4 MAILCODE: CCS02
5	MADS PCM	1		PLAYED BACK TO ODRC FROM RPS VIA KMTS. NO TAPES PROVIDED. TELECOM SYSTEMS MANAGER ATTN: JOHN CORNWELL

CONTINUED

[PRD] DATABASE RECORD: 528035
ITEM NUMBER: HKT103KT

281 853-2274

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-NE-E3 RPS USK-194
USK-614

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 01/10/07
RESPONSE:
THE SOLE U.S. MANUFACTURER OF ANALOG INSTRUMENTATION TAPE CLOSED AND DECLARED BANKRUPTCY ON DEC. 31, 2004. FROM THE SUPPLY OF ANALOG TAPE REMAINING AT KSC, RPS WILL SUPPORT THE FIRST 2 POST COLUMBIA SHUTTLE FLIGHTS. AFTER THAT TIME RPS WILL NO LONGER BE ABLE TO MEET THE ANALOG TAPE REQUIREMENT OF THIS REQUEST. DATA WILL BE MADE AVAILABLE ON DIGITAL TAPE PRODUCED ON THE AMPEX DIS 162i/262i DUAL DENSITY RECORDER WITH AN L3 LAB ARMOR HIGH SPEED DATA MULTIPLEXER FRONT END.

10/24/2006 - THE MANUFACTURER IS CURRENTLY SUPPLYING ANALOG TAPE UPON REQUEST. THE REQUIREMENT FOR ANALOG TAPE WILL BE MET BY RPS UNLESS THE SUPPLY IS NO LONGER AVAILABLE.

RESPONSE TRACKING: Z6601 Z6824 Z7202 Z7204 Z8216
Z8302 Z8801 Z9302 Z9316

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/17/07
RESPONSE TRACKING: Z0507-1 Z6601 Z6824 Z6924 Z7702
Z8007 Z8011 Z8013 Z8016 Z8019
Z8102 Z8216 Z8302 Z8801 Z9302
Z9312 Z9316 ZRTF114-1

[PRD] DATABASE RECORD: 561494 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/20/01
INITIAL DATE: 12/20/01
ITEM NUMBER: H106K DATE LAST CHANGED: 01/25/07

CONTINUED

[PRD] DATABASE RECORD: 561494
ITEM NUMBER: H106K

SECTION: 2200 TIME LAST CHANGED: 10:01:53

REQUESTER: MSFC
TEST CODE:

ASSOCIATED DOC: 20044S
TRACKING NO. KING2001 R109-10 SCRUB06
PRIORITY: REQUIRED
RATIONALE: THIS DATA IS USED FOR A FINAL SYSTEMS, DATA PROCESSING, AND COMMUNICATIONS CIRCUITS VERIFICATION PRIOR TO THE START OF S0007.

1. DESCRIPTION: OD/SSME - SHUTTLE FINAL COUNTDOWN PHASE SIMULATION

MSFC REQUIRES OD AND SSME 60KBS SIMULATED DATA DURING S0044.

THE OD AND THREE INDIVIDUAL SSME DATA STREAMS SHOULD BE TRANSMITTED VIA THE KSC-MSFC TRANSMISSION SYSTEM (KMTS A AND B LINKS)

TECH CONTACT: KSC/RPS/321 861-0830
KSC/RENEE HART/321 861-0988
MSFC/JOHN SCOTT/DRC/256 544-2938

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: NE-C2 RPS

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/20/01
RESPONSE TRACKING: Z109-3

[PRD] DATABASE RECORD: 561495 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/13/07
INITIAL DATE: 01/09/02
ITEM NUMBER: T107K DATE LAST CHANGED: 07/13/07
SECTION: 2200 TIME LAST CHANGED: 08:29:37

REQUESTER: JSC
TEST CODE: P/L IVTS V1043 V1045 V1103
V1117 V1216

CONTINUED

[PRD] DATABASE RECORD: 561495
ITEM NUMBER: T107K

ASSOCIATED DOC: 20008S 20014S 20024S 20044S
TRACKING NO. KING2001 L07-7-1 R0707-4 R109-3 SCRUB06

1. DESCRIPTION: REALTIME OD

JSC REQUIRES REALTIME OD TRANSMITTED VIA THE KSC-MER LINK. (DURING S0044 OD WILL BE SIMULATED).

TECH CONTACT: KSC/RPS/321 861-0830
KSC/RENEE HART/321 861-0988

REF. LLS 2736 T13GK DBR 013072

NOTE: S0024/V1045, HYPERGOLIC LOADING, WILL BE ON AN AS-REQUESTED BASIS.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: NE-C2 RPS

SUPPLIER COMMITMENT: NOACK RESPONSE DATE: 07/13/07

[PRD] DATABASE RECORD: 582897 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/19/05
INITIAL DATE: 05/19/05
ITEM NUMBER: T108K DATE LAST CHANGED: 05/19/05
SECTION: 2200 TIME LAST CHANGED: 08:41:14

REQUESTER: JSC
SUBREQUESTER: JSC/MV
TEST CODE: STSALL

ASSOCIATED DOC: 20028S
TRACKING NO. L05-5-1 R0505-8

1. DESCRIPTION: DESCRIPTION: WING LEADING EDGE IMPACT DETECTION SYSTEM

JSC REQUIRES RPS TO DUPLICATE AND PROVIDE COPIES OF THE WING LEADING

CONTINUED

[PRD] DATABASE RECORD: 582897
ITEM NUMBER: T108K

EDGE IMPACT DETECTION SYSTEM DATA, WHICH IS DOWNLOADED TO A DVD POST-FLIGHT BY GROUND OPERATIONS PERSONNEL.

NOTE 1. DATA WILL BE PROVIDED TO RPS BY ORBITER INSTRUMENTATION.

NOTE 2. ALL DATA DISPOSITION TIMES ARE AFTER MASTER DATA IS RECEIVED BY RPS.

NOTE 3. DATA SHALL BE DUPLICATED TO A DVD+RW FORMAT DVD.

NOTE 4. DVD'S DELIVERED TO RPS SHALL BE COPIED ONE-FOR-ONE FROM THE MASTER DVD'S PROVIDED BY ORBITER INSTRUMENTATION.

NOTE 5. COPY INFORMATION FROM MASTER DVD LABEL TO DUPLICATE DVD LABEL (HANDWRITTEN LABEL IS ACCEPTABLE).

NOTE 6. HOLD MASTER DVD'S UNDER INSTRUMENTATION DATA FOR THE REMAINDER OF THE SHUTTLE PROGRAM OR AS OTHERWISE DIRECTED BY NASA ORBITER INSTRUMENTATION.

CONTACTS: JSC/MV/JILL D. LIN/281 483-2460
JSC/DO561/JILL LUKOSCHEK/281 244-0224
JSC/EB/ROBERT A. VILLARREAL/281 483-0143
KSC/PH-F/SHUAN GREEN/321 861-4244
KSC/INS/JEFF HUET/321 861-4261
KSC/RPS/321 861-0830
KSC/RPS/RENEE HART/321 861-0988

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME	RECIPIENT/REMARKS
1	WLE IDS FLIGHT DATA ON DVD	ORIG		KSC/MASTER COPY SEE NOTE 6
2		1	48 HRS	NASA JOHNSON SPACE CENTER 2101 NASA ROAD 1

CONTINUED

[PRD] DATABASE RECORD: 582897
ITEM NUMBER: T108K

HOUSTON, TEXAS 77058

ATTN: ROBERT A. VILLARREAL
MAILCODE: EB
BLDG: 49/121
PHONE: 281 483-0143

3	1	48 HRS	NASA JOHNSON SPACE CENTER 2101 NASA ROAD 1 HOUSTON, TEXAS 77058 ATTN: JILL LUKOSCHEK MAILCODE: DO561 BLDG: 4N/2044 PHONE: 281 244-0224

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-PH-F RPS USK-194

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/19/05

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2300 - COMMAND SYSTEMS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 309924 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/14/89
INITIAL DATE: 06/14/89
ITEM NUMBER: K1E DATE LAST CHANGED: 06/05/07
SECTION: 2300 TIME LAST CHANGED: 10:29:36

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L PH-F2 VAL92006 VALE
TEST CODE: CCAFS STSALL
TRACKING NO. DB98 KING2001 R109-66 R2853
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LOADING OF FLIGHT CODE.

1. DESCRIPTION: FLIGHT CODE COMPATIBILITY TEST

ER RANGE SAFETY SUPPORT IS REQUIRED AT APPROXIMATELY
L-14 DAYS FOR A COMPATABILITY TEST OF THE FLIGHT CODE.
THIS IS A CLOSED LOOP TEST.

TECH CONTACT: JIM SILVIANO/PH-F2/321 861-3727
ER/MIKE GAWEL/321 853-8118

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/14/89
RESPONSE TRACKING: Z2846

[PRD] DATABASE RECORD: 310717 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/14/89
INITIAL DATE: 06/14/89
ITEM NUMBER: K2E DATE LAST CHANGED: 06/05/07
SECTION: 2300 TIME LAST CHANGED: 10:29:58

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L VAL92006 VALE
TEST CODE: CCAFS STSALL

ASSOCIATED DOC: 20007S 20009S 20017S
TRACKING NO. KING2001 MK98 R109-66 R2853
PRIORITY: MANDATORY
RATIONALE: COMPLIANCE WITH RANGE DOCUMENT ER 127-1, RANGE SAFETY.

CONTINUED

[PRD] DATABASE RECORD: 310717
ITEM NUMBER: K2E

1. DESCRIPTION: SHUTTLE RANGE SAFETY SYSTEM (SRSS) OPEN/CLOSED LOOP TEST (L-7 DAYS)

ER RANGE SAFETY COMMAND SUPPORT IS REQUIRED DURING OPEN LOOP TESTS. TEST CODE NO. 4 WILL BE UTILIZED. THIS CHECK WILL BE CONDUCTED PRIOR TO INSTALLATION OF THE PRIMARY FLIGHT CODES IN THE ET & SRB DECODERS. A CLOSED LOOP CHECK WILL BE CONDUCTED IMMEDIATELY AFTER FLIGHT CODE INSERTION TO VERIFY PROPER OPERATION OF THE SRSS.

TECH CONTACT: JIM SILVIANO/PH-F2/321 861-3727
ER/MIKE GAWEL/321 853-8118

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/14/89
RESPONSE TRACKING: Z2846

[PRD] DATABASE RECORD: 333853 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/02/99
INITIAL DATE: 06/14/89
ITEM NUMBER: EK3EK DATE LAST CHANGED: 06/05/07
SECTION: 2300 TIME LAST CHANGED: 10:30:21

REQUESTER: ER KSC
SUBREQUESTER: KSC/PH-L PH-F2 VAL92006 VALE
VALO92004 VALOE
TEST CODE: LCC STSALL

ASSOCIATED DOC: 20007S 20017S
TRACKING NO. KING2001 L3962 MK98 R109-66 R2853
R8402 R9311
PRIORITY: MANDATORY
RATIONALE: COMPLIANCE WITH RANGE DOCUMENT ER 127-1, RANGE SAFETY.

1. DESCRIPTION: TERMINAL COUNT SHUTTLE RANGE SAFETY SYSTEM (SRSS) CLOSED LOOP TEST (T-45 MINUTES)

ER RANGE SAFETY REPRESENTATIVE (RSR) SUPPORT IS REQUIRED AT

CONTINUED

[PRD] DATABASE RECORD: 333853
ITEM NUMBER: EK3EK

APPROXIMATELY T-45 MINUTES TO CONDUCT A CLOSED LOOP CHECKOUT OF THE SRSS. ALL CHECKOUT INDICATIONS MUST BE DISPLAYED AT THE RSR CONSOLE IN THE LCC CONTROL ROOM. ER COMMAND TRANSMITTERS WILL CAPTURE VEHICLE RECEIVERS CONTINUOUSLY FROM COMPLETION OF THE CLOSED LOOP TEST THROUGH LIFT-OFF.

TECH CONTACTS: ER/MIKE GAWEL/321 853-8118
JIM SILVIANA/PH-F2/321 861-3727

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/02/99
RESPONSE TRACKING: Z2846 Z39107 Z9313

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-PK-F2 USK-237

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/02/99
RESPONSE TRACKING: Z2846 Z39107

[PRD] DATABASE RECORD: 249963 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/02/99
INITIAL DATE: 06/14/89
ITEM NUMBER: EK4EK DATE LAST CHANGED: 06/05/07
SECTION: 2300 TIME LAST CHANGED: 10:30:44

REQUESTER: ER KSC
SUBREQUESTER: KSC/PH-L PH-F2 VAL92006 VALE
VALO92004 VALOE
TEST CODE: OPF S0017.100 STSALL

ASSOCIATED DOC: 20007S 20017S
TRACKING NO. KING2001 MK98 R109-66 R2853 R9311
PRIORITY: MANDATORY
RATIONALE: RANGE SAFETY

1. DESCRIPTION: ER OPEN LOOP TEST (L-5 HOURS)

CONTINUED

[PRD] DATABASE RECORD: 249963
ITEM NUMBER: EK4EK

AT APPROXIMATELY T-5 HOURS, AN OPEN LOOP TEST, UTILIZING THE ER RANGE SAFETY COMMAND SYSTEM AND THE RECEIVER/DECODER SYSTEM IN THE OPF, WILL BE CONDUCTED WITH TEST CODE 4.

TECH CONTACTS: ER/MIKE GAWEL/321 853-8118
JIM SILVIANO/PH-F2/321 861-3727

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/02/99
RESPONSE TRACKING: Z2846 Z9313

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-PK-F2 USK-237

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/02/99
RESPONSE TRACKING: Z2846

[PRD] DATABASE RECORD: 340014 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/03/97
INITIAL DATE: 06/16/89
ITEM NUMBER: E5G DATE LAST CHANGED: 11/16/06
SECTION: 2300 TIME LAST CHANGED: 07:13:24

REQUESTER: ER
SUBREQUESTER: I-JDMTA
TEST CODE: STSALL WLPS

ASSOCIATED DOC: 20007S 20017S
TRACKING NO. KING2001 L5908 L8212 R109-66 R2880
R3930 R4801
PRIORITY: MANDATORY
RATIONALE: RANGE SAFETY

1. DESCRIPTION: RANGE SAFETY COMMAND SUPPORT

COMMANDS WILL BE REMOTED FROM THE ROCC FOR REAL TIME UPLINK THROUGH THE DIGITAL RANGE SAFETY CONTROL SYSTEM (DRSCS) AT

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2300 - COMMAND SYSTEMS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 340014
ITEM NUMBER: E5G

CCAFS, JDMTA. DOD WILL PROVIDE THE RF SYSTEMS AT CCAFS AND JDMTA. DOD WILL PROVIDE ALL THE DRSCS HARDWARE TO ALL THE STATIONS.

STATION STATUS DATA, SUCH AS COMMAND ON/OFF TIMES, WILL BE RECORDED BY THE COMMAND SYSTEMS CONTROLLER AND BY ALL ER DOWN RANGE SITES.

DUAL COMMAND STATIONS (1 HP AND 1 LP) WILL BE UTILIZED FOR SHUTTLE SUPPORT AT CCAFS.

COMMAND CONTROL IS REQUIRED FROM APPROX. T-40 MINUTES THROUGH LIFT-OFF AND UNTIL NOMINAL SRB SEPARATION PLUS 20 SECONDS (OR UNTIL RELEASED BY CCAFS FCO).

SPECIFIC STATION REQUIREMENTS WILL BE DETERMINED ON A MISSION BY MISSION BASIS. SPECIFIC FLIGHT CODES TO BE UTILIZED WILL BE IDENTIFIED IN ACCORDANCE WITH APPLICABLE MISSION RULES.

POINT OF CONTACT: ER/MIKE GAWEL/321 853-8118

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/21/97
RESPONSE TRACKING: Z2866 Z3932 Z4801 Z5908 Z8310

[PRD] DATABASE RECORD: 248120 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/05/96
INITIAL DATE: 06/14/89
ITEM NUMBER: K7E DATE LAST CHANGED: 06/05/07
SECTION: 2300 TIME LAST CHANGED: 10:31:05

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L VAL92006 VALE
TEST CODE: CCAFS S0017.100 STSALL

ASSOCIATED DOC: 20017S
TRACKING NO. DB98 KING2001 L7910 R109-66 R2853
PRIORITY: MANDATORY
RATIONALE: REQUIRED TO VERIFY RANGE SAFETY SYSTEM.

CONTINUED

[PRD] DATABASE RECORD: 248120
ITEM NUMBER: K7E

1. DESCRIPTION: ER RANGE SAFETY COMMAND SUPPORT

THE ER RANGE COMMAND TRANSMITTER IS REQUIRED DURING THE DAY RANGE SAFETY SYSTEM OPEN LOOP TEST. RF CARRIER AND COMMAND (ARM & FIRE) WILL BE TRANSMITTED FROM THE ER PER OMI.

TECH CONTACT: STEVE ALTEMUS/PH-M1/321 861-9300
JIM SILVIANO/PH-F2/321 861-3727

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/21/96
RESPONSE TRACKING: Z2846 Z7924

[PRD] DATABASE RECORD: 324356 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/14/89
INITIAL DATE: 06/14/89
ITEM NUMBER: K11E DATE LAST CHANGED: 06/05/07
SECTION: 2300 TIME LAST CHANGED: 10:31:26

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L PH-F2 VAL92006 VALE
TEST CODE: KSC S5009.101 STSALL

ASSOCIATED DOC: 25009S
TRACKING NO. DB98 KING2001 R109-66 R2853
PRIORITY: MANDATORY
RATIONALE: ETR REQUIREMENT, RANGE SAFETY.

1. DESCRIPTION: ER RANGE SAFETY SERVICES

THREE (3) PAD SAFETY PERSONS ARE TO BE USED TO "MONITOR" CLOSEOUT OF FINAL ORDNANCE INSTALLATION AND CONNECTIONS AT PAD 39A OR 39B.

TECH CONTACT: JIM SILVIANO/PH-F2/321 861-3727

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/14/89

CONTINUED

[PRD] DATABASE RECORD: 324356
ITEM NUMBER: K11E

RESPONSE TRACKING: Z2846

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2330 - COMMAND UPLINK

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 297118 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/18/97
INITIAL DATE: 05/02/90
ITEM NUMBER: T3G DATE LAST CHANGED: 01/23/07
SECTION: 2330 TIME LAST CHANGED: 08:16:56

REQUESTER: JSC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20014S 20017S
TRACKING NO. GSFCREV06 KING2001 L2733 L3328 L3514
L506-2 L911-6 R109-66 R8303 SCRUB06
SHAW95
PRIORITY: MANDATORY
RATIONALE: MISSION SUCCESS

1. DESCRIPTION: FORWARD LINK

MILA IS REQUIRED TO GENERATE THE SHUTTLE FORWARD LINK AND HAVE THE CAPABILITY TO INJECT AIR-TO-GROUND VOICE IN THE FOLLOWING MODES:

1. HIGH DATA RATE (HDR) MODES (72 KB/S; REF. ICD 2-0D004).

2. LOW DATA RATE (LDR) MODES (32 KB/S; REF. ICD 2-0D004).

POC: JSC/DA8/MICHAEL SARAFIN/281 483-4775

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/18/97
RESPONSE TRACKING: Z2753 Z3341 Z3524 Z6906 Z8304

[PRD] DATABASE RECORD: 316944 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/17/98
INITIAL DATE: 07/07/89
ITEM NUMBER: T7G DATE LAST CHANGED: 01/15/07
SECTION: 2330 TIME LAST CHANGED: 10:47:17

REQUESTER: JSC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20014S 20017S

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2330 - COMMAND UPLINK

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 316944
ITEM NUMBER: T7G

TRACKING NO.	GSFCREV06	KING2001	L2733	L2807	L506-2
	L508-6	L803-1	L9001	R109-66	SHAW95

PRIORITY: MANDATORY
RATIONALE: MIL/PDL/WLPS ARE REQUIRED GROUND SUPPORT FOR LAUNCH AND LANDING.

1. DESCRIPTION: MILA/PDL/WLPS THROUGHPUT MODE

1. GENERAL - FORWARD LINK DATA. IN THE THROUGHPUT MODE, THE FORWARD LINK (COMMAND/VOICE DATA) TO THESE STATIONS CONSISTS OF JSC UPLINK FRONT END PROCESSOR (FEP) (TDRSS VEHICLE FORMATTER) ORIGINATED 32 kb/s OR 72 kb/s CONTIGUOUS DATA SERIAL BIT STREAMS. THESES TWO BIT STREAMS ARE ROUTED TO THE JSC CONVERSION DEVICES WHICH BLOCK THESE STREAMS AND ARE PHYSICALLY PATCHED TO TWO LEGACY CIRCUITS, PRIME AND BACK UP.

   AT GSFC, THE JSC CMD DATA STREAMS ARE CIRCUIT SWITCHED (PATCHED) TO THE STATIONS PRIME AND BACK UP COMMAND CIRCUITS (32 kb/s OR 72 kb/s) STREAMS TO MILA/PDL. STATIONS COMMAND EQUIPMENT RECONSTRUCTS (DEBLOCKS) THE CONTINUOUS SERIAL DATA STREAM FOR MODULATION ON THE R.F. TRANSMITTING SYSTEM.

   WHEN THE FORWARD COMMAND SYSTEM NEEDS TO BE "SAFED", OPERATOR ACTION AT JSC WILL SAFE THE COMMAND SYSTEM WHILE LEAVING THE FORWARD LINK MODULATION ON. THIS MAINTAINS THE AIR-TO-GROUND VOICE CAPABILITY. NO SITE ACTION IS REQUIRED. SAFING THE COMMAND SYSTEM INHIBITS THE UPLINKING OF ALL COMMANDS EXCEPT THE UPLINK TEST COMMAND.

2. COMMAND PERFORMANCE (STATUS) DATA. MODIFIED SITE STATUS WILL BE PROVIDED TO JSC WHEN STATIONS ARE IN THE THROUGHPUT MODE. THE DETAILS REGARDING PERFORMANCE DATA REQUIREMENTS ARE INCLUDED IN THE COMMAND SECTION OF THE JSC/GSFC ICD NO. JSC-11534.

3. COMMAND FORWARD LINK ECHO. A REAL-TIME FORWARD LINK ECHO IS REQUIRED FROM MILA/PDL FOR TESTING AND VALIDATION. THE ECHO CONSISTS OF THE COMPOSITE FORWARD LINK DATA TURNED

CONTINUED

[PRD] DATABASE RECORD: 316944
ITEM NUMBER: T7G

AROUND AT MILA AND SENT BACK TO JSC. THE CMD ECHO IS BLOCKED/SENT TO GSFC AND JSC VIA THE CLOSED IONET CIRCUITRY. THE RECEIVING LPA AT JSC THEN ROUTES THE CMD ECHO DATA TO JSC UPLINK FRONT END PROCESSOR IN THE SERIAL MODE. THE ONSITE DATA PROCESSING SYSTEM WILL PROVIDE COMMAND/ECHO/STATUS AND/OR TELEMETRY/STATUS DEPENDING UPON DATA TRANSMISSION RATE CONSTRAINT.

4. COMMAND HISTORY. A HISTORY (TYPE 3) IS REQUIRED FOR THE ACTIVE THROUGHPUT COMMAND/VOICE LINK. THE COMMAND/VOICE HISTORY DATA SOURCE WILL BE A RECORDING OF THE BIT SYNCHRONIZED OUTPUT OF THE VERIFICATION RECEIVER BASEBAND SIGNAL. THE RECORDED HISTORY DATA CAN BE PLAYED BACK AND RECOVERED AT JSC UTILIZING THE SAME RETURN ROUTING TECHNIQUES AS THE COMMAND ECHO.

POC: JSC/STEVE STICH/281 483-8038
GSFC/JAMES BANGERTER/301 286-7306

COORD: KSC/MILA/MELISSA BLIZZARD/321 867-1068

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: I-PDL MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/19/98
RESPONSE TRACKING: Z2753 Z2881 Z6906 Z7307 Z9018

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2400 - TIMING

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 192179 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/13/02
INITIAL DATE: 09/19/89
ITEM NUMBER: K1X DATE LAST CHANGED: 03/20/07
SECTION: 2400 TIME LAST CHANGED: 07:50:23

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 L3411 R109-64 R2809
SCRUB06
PRIORITY: MANDATORY
RATIONALE: CRITICAL LINK TIMING WITH RANGE AND JSC. POSSIBLE LAUNCH SCRUB.

1. TIMING SIGNAL:
A. TM CD REP RTS: IRIG-B
B. CORREL ACC:
2. LOC END INSTR;
A. STA: DFRC
B. BLDG. NO.: 4833
C. ROOM NO.:
D. RACK NO.:
E. AMB TEMP.:
F. SPACE AVAIL.:
3. REQ AGCY REC INSTR/XDUCER;
A. QTY.:
B. TYPE/MODEL:
C. SPEED IPS:
D. INPUT VOLT:
E. INPUT OHM:
F. FREQ RESP:
4. REMARKS: KSC MOBILE GROUND STATION, C70-0703.

TECHNICAL CONTACT: KSC/DEAN SCHAAF/PH-L/321 861-9311
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2400 - TIMING

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 192179
ITEM NUMBER: K1X

RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/13/02
RESPONSE TRACKING: Z3453

[PRD] DATABASE RECORD: 514563 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/23/92
INITIAL DATE: 04/12/91
ITEM NUMBER: H5K DATE LAST CHANGED: 12/01/05
SECTION: 2400 TIME LAST CHANGED: 08:18:36

REQUESTER: MSFC
SUBREQUESTER: MS036
TEST CODE: STSALL SUPSIM

ASSOCIATED DOC: 20007S 20008S 20009S 20014S
20017S 20024S 20037S 20044S
25009S
TRACKING NO. KING2001 L3945 L5329 R109-64 RSRR136
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: COUNTDOWN TIMING - LAUNCH AREA

MSFC REQUIRES THE KSC GENERATED COUNTDOWN TIMING, 109-64 FREQUENCY SHIFT KEYING FORMAT, TO BE TRANSMITTED TO MSFC USING STANDARD COMMUNICATIONS TERMINALS.

REFERENCE: SECT 2734 ITEM H34G DBR 514564

POINT OF CONTACT: MSFC/PHILIP CAUTHEN/EO60/256-544-4204

TECHNICAL CONTACT: GARY DEMPSEY/256-544-5113

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: CSR4620 I-IT-D2

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/23/92
RESPONSE TRACKING: Z28117 Z2940 Z3309 Z3424 Z3987

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2400 - TIMING

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 514563
ITEM NUMBER: H5K

Z5323

[PRD] DATABASE RECORD: 514595 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/28/03
INITIAL DATE: 04/23/91
ITEM NUMBER: GTH6K DATE LAST CHANGED: 04/13/07
SECTION: 2400 TIME LAST CHANGED: 10:38:23

REQUESTER: GSFC JSC MSFC
TEST CODE: JSC KSC S0009.101 STSALL
SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S
TRACKING NO. KING2001 L3960 R107-2 R114-1 R8307

1. DESCRIPTION: LAUNCH AREA TIMING

THE KSC COUNTDOWN CLOCK TIME ALONG WITH RUN-HOLD STATUS & VEHICLE T-0 LIFTOFF EVENT (DEFINED FOR SHUTTLE AS SRB IGNITION, ALSO KNOWN AS FIRST MOTION FM) IS REQUIRED TO BE TRANSMITTED TO THE JSC (MCC), FOR SUBSEQUENT DISPLAY AS DAYS: HOURS: MINUTES: SECONDS WITH AN ACCURACY OF 1.0 SECOND. THE TIMING DATA SHALL CONFORM TO IRIG DOCUMENT 109-64 STANDARD FORMAT FOR INTER-RANGE DISTRIBUTION OF VISUAL COUNT STATUS. ENCODED AS BCD IN A SERIAL ISOCHRONOUS 75 BIT FRAME, OUTPUT AT ONCE PER SECOND RATE. THE COMMUNICATIONS INTERFACE SHALL BE HALF-DUPLEX, TRANSMIT ONLY FROM KSC VIA STANDARD DATA SET MODEM TO THE COMMON CARRIER CIRCUITS. TOTAL END-TO-END TRANSMISSION LINE DELAY SHALL NOT EXCEED 200 MILLISECONDS.

MSFC RECEIVES THE SAME IRIG 109-64 COUNTDOWN FORMAT AS JSC, BUT DOES NOT HAVE THE OPTION OF RECEIVING T-0 LIFTOFF EVENT.

GSFC WILL RECEIVE THE COUNTDOWN SIGNAL IN DAYS: HOURS: MINUTES: SECONDS. THE COUNTDOWN FORMAT IS TRANSMITTED FROM KSC TO MILA TRACKING STATION IN THE BCD MILA COUNTDOWN FORMAT AND CONVERTED THERE FOR TRANSMISSION. GSFC DOES NOT HAVE THE OPTION OF RECEIVING T-0 LIFTOFF EVENT.

VEHICLE LIFT-OFF EVENT FOR T-0 SYNCHRONIZATION MAY BE DERIVED FROM ORBITER COMMANDED TAIL SEVICE MAST (TSM) UMBILICAL RELEASE FOR

CONTINUED

[PRD] DATABASE RECORD: 514595
ITEM NUMBER: GTH6K

CONVERSION TO THE JSC COUNTDOWN TIME FORMAT. ABSOLUTE DELAY FROM THE TRUE SRB IGNITION EVENT TO THE TRANSMISSION OF THE ENCODED LIFT-OFF SHALL NOT EXCEED 250 MILLISECONDS.

JSC CONTACT: HOUSTON COMM CONTROL/DON SNYDER/281 483-4455

REF. LLS2734, ITEM T35G, DBR 514596
REF. LLS2734, ITEM G35.1G, DBR 525519

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: CSR4620 I-IT-D2-C

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/28/03
RESPONSE TRACKING: Z114-1 Z39104 Z8309

[PRD] DATABASE RECORD: 514852 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/20/97
INITIAL DATE: 05/17/91
ITEM NUMBER: KT7K DATE LAST CHANGED: 06/05/07
SECTION: 2400 TIME LAST CHANGED: 10:08:09

REQUESTER: KSC JSC
SUBREQUESTER: PH-B
TEST CODE: INFO STSALL

ASSOCIATED DOC: 20007S 20014S 20017S 20044S
TRACKING NO. DB98 KING2001 L105-3A L4012 L8108
R109-64 R8307
PRIORITY: REQUIRED
RATIONALE: ALTERNATE SOURCES OF DATA AVAILABLE.

1. DESCRIPTION: JSC/MCC FLIGHT CONTROL TEAM (FCT) PRELAUNCH TEST SUPPORT

SEE SECTION 2000, ITEM TIEGK, DBR 000172 FOR LISTING OF TESTS SUPPORTED AND ASSOCIATED CAVEATS.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: CSR4620 I-IT-D2-C

CONTINUED

[PRD] DATABASE RECORD: 514852
ITEM NUMBER: KT7K

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 02/20/97
RESPONSE TRACKING: Z8134 Z8309

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2412 - TIMING SEQUENCER REQUIREMENTS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 198426 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/16/89
INITIAL DATE: 06/16/89
ITEM NUMBER: EK1EK DATE LAST CHANGED: 11/29/06
SECTION: 2412 TIME LAST CHANGED: 08:01:25

REQUESTER: ER KSC
SUBREQUESTER: KSC/PH-L VAL92003 VALE VALO92001
VALOE
TEST CODE: CCAFS KSC STSALL

ASSOCIATED DOC: 20007S 20009S 20014S
TRACKING NO. KING2001 MK98 R109-54 R2880 SCRUB06
PRIORITY: REQUIRED
RATIONALE: BACKUP - OTV

1. EVENTS;
A. AUTO FUNCTION
CNTL. CKTS.: TAIL SERVICE MAST (TSM) RELEASE EVENT (FROM
COMPLEX 39 TO CCAFS ROCC) (L-2 HRS. 15 MIN.)
B. AUTO HOLD FIRE
CKTS:
2. SIGN. SEQ.;
A. START FRM L/O: TERMINAL COUNT
B. STOP FRM L/O: LIFT OFF FOR LAUNCH; OTHER TESTS PER OMI
3. ELECT. CHAR.;
A. CNTS.:
B. VOLTS: 28VDC
C. AMPS:
D. DC OR CYS: TAIL SERVICE MAST (TSM) RELEASE EVENT FROM CX 39
IS REQUIRED AT THE CCAS ROCC. THIS SIGNAL WILL BE
ROUTED THROUGH THE CCAS FACILITIES AND RETURNED
TO THE BRRS FOR DIST. THROUGH KSC FACILITIES TO
THE REQUIRED SITES.
4. REMARKS: REF: LLS 2600, EK1EK, DBR 217116

POINT OF CONTACT: CHARLES ABELL/IT-D2-C/
321-867-4360

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/16/89

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2412 - TIMING SEQUENCER REQUIREMENTS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 198426
ITEM NUMBER: EK1EK

RESPONSE TRACKING: Z2866

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: CSR I-IT-D2-C

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/29/89
RESPONSE TRACKING: Z2866

[PRD] DATABASE RECORD: 212514 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/25/90
INITIAL DATE: 01/25/90
ITEM NUMBER: EK2EK DATE LAST CHANGED: 11/29/06
SECTION: 2412 TIME LAST CHANGED: 08:02:50

REQUESTER: ER KSC
SUBREQUESTER: KSC/PH-L VALE VALO92001 VALO92003
VALOE
TEST CODE: CCAFS KSC STSALL

ASSOCIATED DOC: 20007S 20009S 20014S
TRACKING NO. KING2001 L3611 MK98 R109-54 R2880
PRIORITY: MANDATORY
RATIONALE: MISSION SUCCESS

1. EVENTS;
A. AUTO FUNCTION
CNTL. CKTS.: DISTRIBUTED COUNT/HOLD SIGNAL (FROM COMPLEX
39 TO CCAFS ROCC) (L-2 HOURS)
B. AUTO HOLD FIRE
CKTS:
2. SIGN. SEQ.;
A. START FRM L/O: START OF COUNT
B. STOP FRM L/O: LIFT OFF FOR LAUNCH; OTHER TESTS PER OMI
3. ELECT. CHAR.;
A. CNTS.:
B. VOLTS: 28VDC
C. AMPS:
D. DC OR CYS: THIS SIGNAL IS REQUIRED AT THE BRRS AS A DRY
CONTACT RELAY CLOSURE TO COUNTDOWN CORRELATION AT
CCAS ROCC. PROVIDE NORMALLY CLOSED CONTACTS FOR

CONTINUED

[PRD] DATABASE RECORD: 212514
ITEM NUMBER: EK2EK

"PROCEED" AND NORMALLY OPEN CONTACTS FOR "HOLD".
4. REMARKS: REF: LLS 2600, EK3EK, DBR 246185

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/25/90
RESPONSE TRACKING: Z2866 Z3609

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: CSR I-IT-D2-C

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/15/90
RESPONSE TRACKING: Z2866 Z3635

[PRD] DATABASE RECORD: 215182 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/16/89
INITIAL DATE: 06/16/89
ITEM NUMBER: EK3EK DATE LAST CHANGED: 11/29/06
SECTION: 2412 TIME LAST CHANGED: 08:03:47

REQUESTER: ER KSC
SUBREQUESTER: KSC/PH-L VAL92004 VALE VALO92001
VALOE
TEST CODE: CCAFS KSC STSALL

ASSOCIATED DOC: 20007S 20017S
TRACKING NO. KING2001 MK98 R109-54 R2880
PRIORITY: REQUIRED
RATIONALE: BACKUP - OIS 212

1. EVENTS;
A. AUTO FUNCTION
CNTL. CKTS.: CX 39 HOLDFIRE CAPABILITY AT SRO, FCO, RSR
AND SES (IVS ONLY) AND KSC LCC POSITIONS.
(L-5 HOURS)
B. AUTO HOLD FIRE

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2412 - TIMING SEQUENCER REQUIREMENTS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 215182
ITEM NUMBER: EK3EK

CKTS:
2. SIGN. SEQ.;
A. START FRM L/O: MANUAL ACTIVATION
B. STOP FRM L/O:
3. ELECT. CHAR.;
A. CNTS.:
B. VOLTS: TBD
C. AMPS:
D. DC OR CYS:
4. REMARKS: POINT OF CONTACT: CHARLES ABELL/IT-D2-C/
321-867-4360

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/16/89
RESPONSE TRACKING: Z2866

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: CSR I-IT-D2-C

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/29/89
RESPONSE TRACKING: Z2866

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2413 - VISUAL COUNTDOWN

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD:	254075	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	LLS	APPROVAL DATE:	06/16/89
		INITIAL DATE:	06/16/89
ITEM NUMBER:	EK1EK	DATE LAST CHANGED:	12/06/06
SECTION:	2413	TIME LAST CHANGED:	12:49:58

REQUESTER:	ER	KSC			
SUBREQUESTER:	KSC/PH-L	VALO92001	VALOE		
TEST CODE:	CCAFS	KSC	S0007.100	STSALL	
	TEL-4				
ASSOCIATED DOC:	20007S	20014S			
TRACKING NO.	KING2001	MK98	R109-47	R2880	SCRUB06
PRIORITY:	MANDATORY				
RATIONALE:	MISSION SUCCESS				

1. INFO TO BE DISPLAYED: RANGE COUNTDOWN SIGNAL (L-5 HOURS)
2. OPER PER FROM
   A. MIN.: START OF COUNT
   B. SEC.:
3. OPER PER TO
   A. MIN.: T+1 HR.
   B. SEC.:
4. OPER PER TOTAL
   A. MIN.:
   B. SEC.:
5. INDICATORS
   A. QTY.:
   B. MTG.:
6. LOC VIS INDTRS
   A. STA.: 19
   B. BLDG.: TEL 4
   C. RM.:
   D. LOC.: FDME VISUAL COUNTDOWN WILL BE FURNISHED TO THE BRRS FROM CCAS AND MUST BE DISTRIBUTED THROUGH KSC FACILITIES TO THE REQUIRED SITES. SIGNAL AMPLITUDE REQUIRED IS 3V PEAK-TO-PEAK.
7. REMARKS:
   TECH CONTACT: CHARLES ABELL/IT-D2-C/321 867-4360
   PETE NICKOLENKO/PH-L/321 861-9300

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2413 - VISUAL COUNTDOWN

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 254075
ITEM NUMBER: EK1EK

SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/16/89
RESPONSE TRACKING: Z2866

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: CSR I-IT-D2-C

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/29/89
RESPONSE TRACKING: Z2866

[PRD] DATABASE RECORD: 306021 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/14/99
INITIAL DATE: 06/15/90
ITEM NUMBER: DE2EK DATE LAST CHANGED: 05/31/07
SECTION: 2413 TIME LAST CHANGED: 07:27:28

REQUESTER: HSFS ER
SUBREQUESTER: VAL92001 VALE VALO92001 VALOE
TEST CODE: CCAFS S0007.100 STSALL

ASSOCIATED DOC: 20007S 20009S 20014S 20017S
20024S 20026S 20027S 20028S
TRACKING NO. KING2001 L3611 L3801 L4503 R109-47
R26209 R2809 R6518 R9305 SHAW94
PRIORITY: REQUIRED
RATIONALE: ALTERNATE SOURCES OF DATA AVAILABLE.

1. INFO TO BE
DISPLAYED: NASA SERIAL COUNTDOWN SIGNAL
2. OPER PER FROM
A. MIN.: START OF COUNT
B. SEC.:
3. OPER PER TO
A. MIN.: TEST TERMINATION
B. SEC.:
4. OPER PER TOTAL
A. MIN.:
B. SEC.:

CONTINUED

[PRD] DATABASE RECORD: 306021
ITEM NUMBER: DE2EK

5. INDICATORS
A. QTY.:
B. MTG.:
6. LOC VIS INDTRS
A. STA.: 01
B. BLDG.: ROCC, PAFB 423
C. RM.:
D. LOC.: ROCC, PAFB DOD SOC. THIS SIGNAL FROM CX 39 IS REQUIRED VIA THE BRRS TO THE VIDEO DISPLAY RACK IN THE CCAFS ROCC CENTRAL TIMING AREA FOR COUNTDOWN CORRELATION. SIGNAL AMPLITUDE REQUIRED IS 3 V PEAK TO PEAK.

7. REMARKS: POC: (D) HSFS-O/321 494-5116

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/14/99
RESPONSE TRACKING: Z26112 Z3609 Z3806 Z4518 Z6506
Z9305

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: CSR I-IT-D2-C

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/14/99
RESPONSE TRACKING: Z26112 Z3635 Z3806 Z4518 Z6506
Z9305

[PRD] DATABASE RECORD: 358639 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/08/02
INITIAL DATE: 09/19/89
ITEM NUMBER: K4X DATE LAST CHANGED: 03/20/07
SECTION: 2413 TIME LAST CHANGED: 07:51:14

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DFRC EAFB S0026.200 S0026.300

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2413 - VISUAL COUNTDOWN

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 358639
ITEM NUMBER: K4X

S5022.200 STSALL

ASSOCIATED DOC: 20026S 25022S
TRACKING NO. DB98 KING2001 L3411 R109-47 R2809
PRIORITY: REQUIRED
RATIONALE: ALTERNATE SOURCES OF DATA AVAILABLE.

1. INFO TO BE DISPLAYED: PLUS COUNT FROM ORBITER WHEELS-STOP
2. OPER PER FROM
 A. MIN.:
 B. SEC.:
3. OPER PER TO
 A. MIN.:
 B. SEC.:
4. OPER PER TOTAL
 A. MIN.:
 B. SEC.:
5. INDICATORS
 A. QTY.:
 B. MTG.:
6. LOC VIS INDTRS
 A. STA.: DFRC
 B. BLDG.: 4833
 C. RM.: CONTROL ROOM (104)
 D. LOC.:
7. REMARKS: START PLUS COUNT UPON LOCAL COMMAND.

TECH CONTACT: DEAN SCHAAF/PH-L/321 861-9311
MIKE KUTA/USK-426/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/08/02
RESPONSE TRACKING: Z3453

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2413 - VISUAL COUNTDOWN

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 360244 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/19/89
INITIAL DATE: 09/19/89
ITEM NUMBER: K5X DATE LAST CHANGED: 03/20/07
SECTION: 2413 TIME LAST CHANGED: 07:51:51

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 L3411 R109-47 R2809
PRIORITY: REQUIRED
RATIONALE: ALTERNATE SOURCES OF DATA AVAILABLE.

1. INFO TO BE DISPLAYED: GMT
2. OPER PER FROM
 A. MIN.:
 B. SEC.:
3. OPER PER TO
 A. MIN.:
 B. SEC.:
4. OPER PER TOTAL
 A. MIN.:
 B. SEC.:
5. INDICATORS
 A. QTY.:
 B. MTG.:
6. LOC VIS INDTRS
 A. STA.: DFRC
 B. BLDG.: 4800
 C. RM.:
 D. LOC.:
7. REMARKS: VISIBLE FROM GOM CONSOLE

TECH CONTACT: DEAN SCHAAF/PH-L/321 861-9311
MIKE KUTA/USK-426/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2413 - VISUAL COUNTDOWN

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 360244
ITEM NUMBER: K5X

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/25/89
RESPONSE TRACKING: Z3453

[PRD] DATABASE RECORD: 18238 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/20/04
INITIAL DATE: 04/04/90
ITEM NUMBER: T7GKT DATE LAST CHANGED: 01/15/07
SECTION: 2413 TIME LAST CHANGED: 10:48:10

REQUESTER: JSC
SUBREQUESTER: JSC/B-NS
TEST CODE: EAFB KSC STSALL SUPSIM
WSSH

ASSOCIATED DOC: 20007S 20014S 20017S 20026S
20027S 20028S 20044S
TRACKING NO. A106-1 KING2001 L004-1 L04-2-1 L3133
L507-3 R0402-1 R109-47 R3011

1. DESCRIPTION: B-NS/HOU COUNTDOWN CLOCK

PROVIDE TO B-NS/HOU THE KSC COUNTDOWN CLOCK DURING SHUTTLE LAUNCH COUNTDOWN (S0007), AND DURING SIMILAR ACTIVITIES (S0014, S0017), DEMONSTRATIONS, AND SIMULATIONS (20044).

TECH CONTACTS: CHARLES ABELL
NASA/KSC/IT-D2-C TIMING MGR
321 867-4360

STEPHEN W. PRICE
B-NS-HOU
281 244-3226

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/20/04

CONTINUED

[PRD] DATABASE RECORD: 18238
ITEM NUMBER: T7GKT

RESPONSE TRACKING: Z3021

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: CSR I-IT-D2-C

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/20/04
RESPONSE TRACKING: Z3021 Z3167

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/20/04
RESPONSE TRACKING: Z0402-2 Z3021 Z3167

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2600 - OTHER SYSTEMS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 217116 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/14/99
INITIAL DATE: 07/13/90
ITEM NUMBER: EK1EK DATE LAST CHANGED: 04/13/07
SECTION: 2600 TIME LAST CHANGED: 10:39:00

REQUESTER: ER KSC
SUBREQUESTER: KSC/PH-L
TEST CODE: KSC S0009.101 STSALL

ASSOCIATED DOC: 20007S 20009S 20014S 20017S
TRACKING NO. KING2001 L3822 MK98 R109-78 R2853
R9304
PRIORITY: REQUIRED
RATIONALE: BACKUP CAPABILITY FOR FIRST MOTION AT THE RANGE.

1. DESCRIPTION: KSC SHUTTLE VEHICLE FIRST MOTION INDICATION
(L-2 HOURS, 15 MINUTES)

THE ER REQUIRES THE TAIL SERVICE MAST (TSM) RELEASE EVENT BE PROVIDED TO THE KSC/BRRS INTERFACE FOR TRANSMISSION TO THE CCAFS CENTRAL TIMING AREA. A CHECKOUT OF THIS INDICATION IS REQUIRED IN THE PRELAUNCH COUNTDOWN.

TECH CONTACT: ER/MIKE GAWEL/321 853-8118
MICHAEL STONE/CSR-4620/321 861-1237
TED MOSTELLER/PH-L/321 861-9307

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/14/99
RESPONSE TRACKING: Z6922 Z9304

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: CSR4620 ER I-IT-D2-C

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/14/99
RESPONSE TRACKING: Z2846 Z3832 Z7312 Z9304

[PRD] DATABASE RECORD: 228842 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/14/99
INITIAL DATE: 01/25/90
ITEM NUMBER: E2EK DATE LAST CHANGED: 12/06/06

CONTINUED

[PRD] DATABASE RECORD: 228842
ITEM NUMBER: E2EK

SECTION: 2600 TIME LAST CHANGED: 12:53:32

REQUESTER: ER
SUBREQUESTER: KSC/PH-L
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20007S 20009S 20014S 20017S
TRACKING NO. KING2001 L3611 R109-78 R2853 R9304
PRIORITY: MANDATORY
RATIONALE: MISSION SUCCESS

1. DESCRIPTION: KSC SHUTTLE VEHICLE COUNTDOWN "COUNT/HOLD SIGNAL"

THE ER REQUIRES THE KSC COUNTDOWN SYSTEM "COUNTDOWN SYSTEM COUNT/HOLD" SIGNAL BE PROVIDED TO THE KSC/BRRS INTERFACE FOR TRANSMISSION TO THE CCAS CENTRAL TIMING AREA. ER USES THIS SIGNAL TO SYNCHRONIZE THE ER VISUAL COUNTDOWN SYSTEM WITH LV COUNT. PROVIDE NORMALLY CLOSED CONTACTS FOR "PROCEED" AND OPEN CONTACTS FOR "HOLD".

TECH CONTACT: MIKE STONE/CSR-4620/321 861-1237
ER/MIKE GAWEL/321 853-8118
TED MOSTELLER/PH-L/321 861-9307

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/14/99
RESPONSE TRACKING: Z2846 Z3609 Z6922 Z9304

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: CSR4620 I-IT-D2-C

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/14/99
RESPONSE TRACKING: Z3635 Z8246 Z9304

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2600 - OTHER SYSTEMS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 246185 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/14/99
INITIAL DATE: 01/25/90
ITEM NUMBER: EK3EK DATE LAST CHANGED: 11/29/06
SECTION: 2600 TIME LAST CHANGED: 08:23:06

REQUESTER: ER KSC
SUBREQUESTER: KSC/PH-L VAL92003 VALE VALO92001
VALOE
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20007S 20009S 20014S 20017S
TRACKING NO. KING2001 L3611 MK98 R109-78 R2853
R9304
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: KSC/NASA SERIAL COUNTDOWN SIGNAL

THE ER REQUIRES THE KSC/NASA SERIAL COUNTDOWN SIGNAL BE PROVIDED TO THE KSC/BRRS INTERFACE FOR TRANSMISSION TO THE VIDEO DISPLAY RACK AT THE CCAFS CENTRAL TIMING AREA. KSC HAS PROVIDED COUNTDOWN INDICATORS. THIS SIGNAL IS NEEDED TO DRIVE THESE INDICATORS.

TECH CONTACT: MICHAEL STONE/CSR-4620/321 861-1237
PETE NICKOLENKO/PH-L/321 861-9300

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/14/99
RESPONSE TRACKING: Z2846 Z3609 Z9304

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: CSR4620 I-IT-D2-C

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/14/99
RESPONSE TRACKING: Z2846 Z3635 Z9304

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2600 - OTHER SYSTEMS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 347294 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/03/94
INITIAL DATE: 02/02/90
ITEM NUMBER: T14D DATE LAST CHANGED: 05/30/07
SECTION: 2600 TIME LAST CHANGED: 10:33:21

REQUESTER: JSC
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S 20027S
TRACKING NO. KING2001 L001-11 L3625 L6813 R109-78
R2809
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: DOD TACAN STATUS

DOD IS REQUESTED TO PROVIDE THE STATUS OF THE TACAN AT BOTH EDWARDS AFB AND HOLLOMAN AFB. (REF FLS SECTION 2600, ITEM T3DK). TACAN STATUS WILL BE REPORTED TO THE LANDING SUPPORT OFFICERS VIA THE DOD SOC.

POC: MARTY LINDE/DM/281 483-1943

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/03/94
RESPONSE TRACKING: Z3623 Z6812

[PRD] DATABASE RECORD: 250158 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/12/97
INITIAL DATE: 02/02/90
ITEM NUMBER: T15K DATE LAST CHANGED: 11/29/06
SECTION: 2600 TIME LAST CHANGED: 08:34:02

REQUESTER: JSC
TEST CODE: KSC MSBLS SLF STSALL

ASSOCIATED DOC: 20028S
TRACKING NO. KING2001 L001-11 L3625 L711-3A L711-3AB
L8715 L8716 R109-78
PRIORITY: MANDATORY
RATIONALE: MISSION SUCCESS

CONTINUED

[PRD] DATABASE RECORD: 250158
ITEM NUMBER: T15K

1. DESCRIPTION: LANDING AIDS SUPPORT - KSC

LANDING AIDS SUPPORT IS REQUIRED FOR LAUNCH, RTLS, AND OTHER LANDING OPPORTUNITIES, AS WELL AS DURING STA TRAINING AND WEATHER RECON FLIGHTS.

APPROXIMATE STA SUPPORT PERIODS ARE LAUNCH -1:40 AND LANDING -2:40 TO LANDING ROLLOUT.

TECH CONTACTS: MARTY LINDE/DM/281 483-1943
MIKE FESSNER/USK-309/321 861-0702

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2 USK-309

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/13/97
RESPONSE TRACKING: Z3623 Z8726 Z8727

[PRD] DATABASE RECORD: 360065 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/12/97
INITIAL DATE: 02/22/89
ITEM NUMBER: T15.1X DATE LAST CHANGED: 03/20/07
SECTION: 2600 TIME LAST CHANGED: 07:52:53

REQUESTER: JSC
TEST CODE: EAFB MSBLS STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. KING2001 L2961 L711-3A L711-3AB L8715
L8716 R109-78 SCRUB06
PRIORITY: MANDATORY
RATIONALE: MISSION SUCCESS - LANDING SUPPORT AT DRYDEN.

1. DESCRIPTION: LANDING AIDS SUPPORT - EAFB

LANDING AIDS SUPPORT IS REQUIRED DURING STA TRAINING AND WEATHER RECON FLIGHTS, APPROXIMATELY LANDING -2:40, TO LANDING ROLLOUT PLUS 30 MINUTES.

POC: KSC/DENNY GAGEN/PH-L/861-9301
MARTY LINDE/DM/281 483-1943

CONTINUED

[PRD] DATABASE RECORD: 360065
ITEM NUMBER: T15.1X

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/12/97
RESPONSE TRACKING: Z29111 Z8726 Z8727

[PRD] DATABASE RECORD: 555766 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/03/00
INITIAL DATE: 05/03/00
ITEM NUMBER: T17EX DATE LAST CHANGED: 03/20/07
SECTION: 2600 TIME LAST CHANGED: 07:53:32

REQUESTER: JSC
SUBREQUESTER: JSC/DM46
TEST CODE: DFRC EAFB STSALL

ASSOCIATED DOC: 20028S
TRACKING NO. KING2001 L005-1 L101-4 R109-78 SCRUB06
PRIORITY: MANDATORY
RATIONALE: LANDING SUPPORT AT EAFB

1. DESCRIPTION: DFRC RUNWAY BAK-12 (BARRIER) REMOVAL AND ASSOCIATED LIGHTING

RUNWAY BARRIER REMOVAL REQUIREMENTS AT EAFB ARE AS FOLLOWS:

1. EDWARDS AFB IS REQUIRED TO REMOVE THE BAK (BARRIER) CABLE USING THE FOLLOWING GUIDELINE:

   THE BAK-12 (BARRIER) CABLE ON EACH END OF RUNWAY 22/04 WILL BE REMOVED BY THE TIME OF THE SUCCESSFUL DEORBIT BURN FOR ANY PLANNED SHUTTLE LANDING ON THE CONCRETE RUNWAY. EDWARDS AFB WILL BE NOTIFIED OF THE INTENT TO LAND AT LEAST 90 MINUTES PRIOR TO THE PLANNED LANDING TIME.

2. ALL LIGHTS ASSOCIATED WITH THE BAK-12 (I.E., COLLISION AND MOON LIGHTS) WILL BE TURNED OFF FOR SHUTTLE LANDINGS AT NIGHT.

CONTINUED

[PRD] DATABASE RECORD: 555766
ITEM NUMBER: T17EX

REFERENCE: FLS2600, T19EX, DBR 555765

TECHNICAL CONTACT: JSC/MARTY LINDE/DM/281 483-1943
KSC/DENNY GAGEN/PH-L/321 861-9301

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/03/00
RESPONSE TRACKING: Z101-9

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/03/00
RESPONSE TRACKING: Z101-8

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2620 - OTHER SYSTEMS - SUPPORT INSTRUMENTATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 210927 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/13/89
INITIAL DATE: 06/13/89
ITEM NUMBER: K1D DATE LAST CHANGED: 05/30/07
SECTION: 2620 TIME LAST CHANGED: 10:33:12

REQUESTER: KSC
SUBREQUESTER: KSC/NE-E1
TEST CODE: KSC SLF STSALL

ASSOCIATED DOC: 20007S 20009S 20014S 20017S
TRACKING NO. DB98 KING2001 R2875
PRIORITY: MANDATORY
RATIONALE: BACKUP TO KSC TACAN

1. RA/SA: SA
2. NAME/TYPE: TACAN GROUND STATION
3. MANUFACTURER:
4. LOCATION: PAFB
5. PURPOSE/REMARKS: B/U TO KSC TACAN AT SLF. TO PROVIDE ORBITER SYSTEM CHECKOUT DURING PAD OPERATIONS. TO SUPPORT ORBITER DURING COUNTDOWN BEGINNING APPROX. T-25 MIN. SUPPORT SYSTEM MUST NOTIFY THE COMM NAV AIDS LPS CONSOLE PRIOR TO SWITCHING TRANSPONDERS FROM "IN USE" TO/FROM "STANDBY" SYSTEMS. TACAN SYSTEM WILL BE "SHUTTLE OPERATIONAL SUPPORT CONFIGURED."

TECH CONTACT: JOE REEVES/USK-116/321 861-0541
JOHN KIRIAZES/NE-E1/321 861-3700
TED MOSTELLER/PH-L/321 861-9307

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON (ED) LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/26/89
RESPONSE TRACKING: Z2860

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2630 - OTHER SYSTEMS - ENVIRONMENTAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 15775 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/26/98
INITIAL DATE: 02/14/92
ITEM NUMBER: EGHKT1K DATE LAST CHANGED: 01/25/07
SECTION: 2630 TIME LAST CHANGED: 12:03:44

REQUESTER: ER GSFC MSFC
KSC JSC
SUBREQUESTER: I-PH-L USK-657
TEST CODE: ADVRSE INFO KSC STSALL
VAP

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. DB98 KING2001 L8108 L9003 R109-77
R9103

1. DESCRIPTION: L & L REQUIREMENTS MATRIX, DATA PRODUCT CODES,
ITEM # AND TEST CODES.
SERIES + + + + + DATA TYPE + + + + +
000-199 = WAVE ANALYSIS DATA REQUIREMENTS
200-299 = LCC CRT REAL-TIME DISPLAY, LINE PRINTER REQ'MTS & REPORTS
300-399 = LCC CRT HARDCOPY, O-GRAPH/STRIP CHART RECORDER REQ'MTS
400-499 = SPECIAL TESTING
500-599 = WAVE ANALYSIS TIME HISTORY AND PROCESSED DATA PLOTS
600-699 = WAVE ANALYSIS OCILLOGRAPH RECORDING REQUIREMENTS
700-999 = MISC.

DATA PRODUCT CODES (LISTED IN THE SUBREQUESTER SECTION)

CODE	CODE DEFINITION		CODE	CODE DEFINITION
CQLP	CONTINGENCY QUICK LOOK PLOT	+	PTHC	POST TEST HARDCOPY
QRES	QUICK RESPONSE	+	PTLP	POST TEST LINE PRINTER
PRMT	PRE TEST MAG TAPE	+	PTMT	POST TEST MAG TAPE
RTHC	REAL TIME HARDCOPY	+	PTOG	POST TEST O'GRAPH
RTLP	REAL TIME LINE PRINTER	+	PPSD	POST TEST PSD PLOT
RTMT	REAL TIME MAG TAPE	+	PQLP	POST TEST QUICK LOOK PLOT
RTOG	REAL TIME O'GRAPH	+	PRPT	POST TEST REPORT
RTSC	REAL TIME STRIP CHART	+	PRMS	POST TEST RMS PLOT
RTVD	REAL TIME VIDEO DISPLAY	+	PTTH	POST TEST TIME HISTORY
REDF	REAL TIME ELECTRONIC DATA FILES	+	PEDF	POST TEST ELECTRONIC DATA FILES

+ + TEST CODES + + + + TEST CODE DEFINITIONS + + + + +

VAP	VEHICLE AT PAD
ADVRSE	ADVERSE WEATHER WARNING/CONDITIONS

CONTINUED

[PRD] DATABASE RECORD: 15775
ITEM NUMBER: EGHKT1K

	65 68 64	SHUTTLE FLIGHT NUMBERS
	LI-01 LI-23	REFERS TO LINE ITEM IN USA MEAS. MATRIX
OMI's------>	25214A	SHUTTLE XFER/MATE TO PAD
START	25303B	STACKING AND ALIGNMENT
HERE	20003S	ET SRB MATE
	20004S	ORBITER MATE
	20007S	LAUNCH COUNTDOWN
	20009S	LAUNCH PAD VALIDATION
	20014S	FLIGHT READINESS FIRING (LPS)
	20037S	INTEGRATED CRYO LOAD
	Y2007	PMS OPS SUPPORT PROCEDURES

(R) RATIONALE: INFORMATION

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 I-NE-C2 USK-637
USK-698

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 03/26/98
RESPONSE TRACKING: Z8134 Z9019 Z9103

[PRD] DATABASE RECORD: 518609 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/24/01
INITIAL DATE: 10/13/92
ITEM NUMBER: H3K DATE LAST CHANGED: 01/25/07
SECTION: 2630 TIME LAST CHANGED: 12:04:57

REQUESTER: MSFC
SUBREQUESTER: 091101A MEMO20 MS134 MS153
MS232 MS252 PEDF USA
TEST CODE: 25141B KSC STSALL

ASSOCIATED DOC: 25303B
TRACKING NO. KING2001 L4914 L5224 L5416 L5703
L7203 L8001 L9003 LSRR138 R0405-1
R108-4 R109-77 R9103 R9502 SCRUB06
PRIORITY: REQUIRED
RATIONALE: ENGINEERING DATA REQUIRED FOR MSFC DATA REDUCTION CENTER TO BE USED BY ANYONE IN THE SHUTTLE PROGRAM.

CONTINUED

[PRD] DATABASE RECORD: 518609
ITEM NUMBER: H3K

1. DESCRIPTION: WAVE ANALYSIS LAB PMS POST TEST DATA REQUIREMENT

PROVIDE 5 MINUTE DATA SAMPLES OF MEASUREMENTS LISTED FOR THE FOLLOWING:

(1) ZERO LOAD (STUDS ON DECK)
(2) STUDS INSTALLED PRIOR TO TENSIONING
(3) POST STUD TENSIONING
(4) PRIOR TO TOUCHDOWN OF EACH SEGMENT
(5) IMMEDIATELY AFTER TOUCHDOWN OF EACH SEGMENT
(6) PRE-SYSTEM CALS
(7) POST ZERO BALANCE
(8) ZERO LOAD PRE CAL A, CAL B, AND AMBIENT
(9) PRIOR TO LIFT OF EACH SEGMENT (DESTACK)
(10) AFTER LIFT OF EACH SEGMENT (DESTACK)

HDP STUDS	HDP AXIALS/SHEARS	
KMSG(X) 104A-105A	KMSG(X) 106A-115A	
204A-205A	206A-215A	
304A-305A	306A-315A	
404A-405A	406A-415A	
504A-505A	506A-515A	LEGEND
604A-605A	606A-615A *	(X) = F (MLP-1)
704A-705A	706A-715A *	(X) = G (MLP-2)
KMSG(X) 804A-805A	KMSG(X) 806A-815A *	(X) = H (MLP-3)

* = KMSG(X) 614A-615A, 714A-715A, 814A-815A
NOT RECORDED WHEN MLP-3 IS USED.

DATA DIPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1 THRU 10	(ELECTRONIC DATA FILES)	1	E+48 HRS	MSFC DATA REDUCTION CENTER

POINT OF CONTACT: MSFC/JACKIE WALKER/USA/256-971-3068

CONTINUED

[PRD] DATABASE RECORD: 518609
ITEM NUMBER: H3K

JONNIE STREET/USK-637/321-861-4249

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 I-NE-C2 USK-637

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/24/01
RESPONSE TRACKING: Z4910 Z5224 Z5419 Z5703 Z7506
Z8010 Z9019 Z9103 Z9502

[PRD] DATABASE RECORD: 518610 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/24/01
INITIAL DATE: 10/13/92
ITEM NUMBER: H5K DATE LAST CHANGED: 06/05/07
SECTION: 2630 TIME LAST CHANGED: 12:20:27

REQUESTER: MSFC
SUBREQUESTER: 091101A MEMO20 MS134 MS153
MS232 MS252 PEDF USA
TEST CODE: KSC LI-01 LI-08 LI-25
LI-37 STSALL

ASSOCIATED DOC: 20003S
TRACKING NO. KING2001 L4914 L5224 L5416 L5703
L7203 L7912 L8001 L9003 LSRR138
R0405-1 R108-4 R109-77 R9103 R9502
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT HDP LOADS ASSESSMENT DURING VEHICLE ASSEMBLY.

1. DESCRIPTION: WAVE ANALYSIS LAB PMS POST TEST DATA REQUIREMENT

PROVIDE 5 MINUTE DATA SAMPLES OF MEASUREMENTS LISTED FOR THE FOLLOWING EVENTS:

(1) PRE ALIGN PULLBACK
(2) POST ALIGN PULLBACK
(3) PRE ET CONTACT
(4) POST ET CONTACT
(5) PRE DEMATE
(6) POST DEMATE

CONTINUED

[PRD] DATABASE RECORD: 518610
ITEM NUMBER: H5K

HDP STUDS	HDP AXIALS/SHEARS
KMSG(X) 104A-105A	KMSG(X) 106A-115A
204A-205A	206A-215A
304A-305A	306A-315A
404A-405A	406A-415A
504A-505A	506A-515A
604A-605A	606A-615A *
704A-705A	706A-715A *
KMSG(X) 804A-805A	KMSG(X) 806A-815A *

LEGEND
(X) = F (MLP-1)
(X) = G (MLP-2)
(X) = H (MLP-3)

* = KMSG(X) 614A-615A, 714A-715A, 814A-815A,
NOT RECORDED WHEN MLP-3 IS USED.

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
(1) THRU (6)	(ELECTRONIC DATA FILES)	1	E+48 HRS	MSFC DATA REDUCTION CENTER

POINT OF CONTACT: MSFC/JACKIE WALKER/USA/256-971-3068
LEE MURRAY/USK-637/WAL/321-861-2113

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 I-NE-C2 USK-637

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/24/01
RESPONSE TRACKING: Z4910 Z5224 Z5419 Z5703 Z7506
Z8001 Z8010 Z9019 Z9103 Z9502

[PRD] DATABASE RECORD: 518612
DOCUMENT ID: LLS
ITEM NUMBER: H6K
SECTION: 2630

REQUIREMENT STATUS: APPROVED
APPROVAL DATE: 09/24/01
INITIAL DATE: 10/13/92
DATE LAST CHANGED: 01/25/07
TIME LAST CHANGED: 12:07:04

REQUESTER: MSFC
SUBREQUESTER: 091101A MEMO20 MS134 MS153

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2630 - OTHER SYSTEMS - ENVIRONMENTAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 518612
ITEM NUMBER: H6K

	MS232	MS252	PEDF	USA
TEST CODE:	KSC	STSALL		

ASSOCIATED DOC:	20004S	20030S			
TRACKING NO.	KING2001	L4914	L5224	L5416	L5703
	L7203	L8001	L9003	LSRR138	R0405-1
	R108-4	R109-77	R9103	R9502	SCRUB06

PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT - HDP LOADS ASSESSMENT DURING VEHICLE ASSEMBLY.

1. DESCRIPTION: WAVE ANALYSIS LAB PMS POST TEST DATA REQUIREMENT

PROVIDE 5 MINUTE DATA SAMPLES OF MEASUREMENTS LISTED FOR THE FOLLOWING EVENTS:

(1) IMMEDIATELY PRIOR TO MATING OF ORBITER
(2) AFTER MATING & STABILIZATION OF THE STACK
(3) PRE DEMATE
(4) POST DEMATE

HDP STUDS	HDP AXIALS/SHEARS	
KMSG(X) 104A-105A	KMSG(X) 106A-115A	
204A-205A	206A-215A	
304A-305A	306A-315A	
404A-405A	406A-415A	
504A-505A	506A-515A	LEGEND
604A-605A	606A-615A *	(X) = F (MLP-1)
704A-705A	706A-715A *	(X) = G (MLP-2)
KMSG(X) 804A-805A	KMSG(X) 806A-815A *	(X) = H (MLP-3)

* = KMSG(X) 614A-615A, 714A-715A, 814A-815A,
NOT RECORDED WHEN MLP-3 IS USED.

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
(1)	(ELECTRONIC	1	E+48 HRS	MSFC DATA REDUCTION

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2630 - OTHER SYSTEMS - ENVIRONMENTAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 518612
ITEM NUMBER: H6K

THRU DATA FILES CENTER
(4)

POINT OF CONTACT: MSFC/JACKIE WALKER/USA/256-971-3068
JONNIE STREET/USK-637/321-861-4249

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 I-NE-C2 USK-637

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/24/01
RESPONSE TRACKING: Z4910 Z5224 Z5419 Z5703 Z7506
Z8010 Z9019 Z9103 Z9502

[PRD] DATABASE RECORD: 518615 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/24/01
INITIAL DATE: 10/13/92
ITEM NUMBER: H7K DATE LAST CHANGED: 01/25/07
SECTION: 2630 TIME LAST CHANGED: 12:08:37

REQUESTER: MSFC
SUBREQUESTER: 091101A MEMO20 MS134 MS153
MS234 MS252 PEDF USA
TEST CODE: KSC STSALL Y2007

ASSOCIATED DOC: 20009S 25214A
TRACKING NO. KING2001 L2703 L4914 L5224 L5416
L5703 L8001 L9003 LSRR138 R0405-1
R108-4 R109-77 R9103 R9502 SCRUB06
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT - HDP LOADS ASSESSMENT DURING VEHICLE ASSEMBLY.

1. DESCRIPTION: WAVE ANALYSIS LAB PMS POST TEST DATA REQUIREMENT

PROVIDE 5-MINUTE DATA SAMPLES OF MEASUREMENTS LISTED FOR THE FOLLOWING EVENTS:
(1) PRE RANGE CHANGE (Y2007)
(2) POST RANGE CHANGE (Y2007)
(3) PRIOR TO ROLLOUT (A5214)

CONTINUED

[PRD] DATABASE RECORD: 518615
ITEM NUMBER: H7K

(4) 8-HOUR DRIFT TEST (A5214)
(EVERY HOUR)
(5) POST ROLLBACK (Y2007)

EVENTS (1) (2) (3) (5)

HDP AXIALS/SHEARS		HDP STUDS	
KMSG(X)	106A-115A	KMSG(X)	104A-105A
	206A-215A		204A-205A
	306A-315A		304A-305A
	406A-415A		404A-405A
	506A-515A		504A-505A
	606A-615A *		604A-605A
	706A-715A *		704A-705A
KMSG(X)	806A-815A *	KMSG(X)	804A-805A

LEGEND
(X) = F (MLP-1)
(X) = G (MLP-2)
(X) = H (MLP-3)

* = KMSG(X) 614A-615A, 714A-715A, 814A-815A,
NOT RECORDED WHEN MLP-3 IS USED.

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
(1) THRU (5)	(ELECTRONIC DATA FILES)	1	E+48 HRS	MSFC DATA REDUCTION CENTER

POINT OF CONTACT: MSFC/JACKIE WALKER/USA/256-971-3068
KSC/JONNIE STREET/USK-637/321-861-4249

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 I-NE-C2 USK-637

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/24/01
RESPONSE TRACKING: Z4910 Z5224 Z5419 Z5703 Z7506
Z8010 Z9019 Z9103 Z9502

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2630 - OTHER SYSTEMS - ENVIRONMENTAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 544187 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/24/01
INITIAL DATE: 03/26/98
ITEM NUMBER: H7.1K DATE LAST CHANGED: 01/25/07
SECTION: 2630 TIME LAST CHANGED: 12:10:05

REQUESTER: MSFC
SUBREQUESTER: 091101A PEDF USA
TEST CODE: STSALL Y2007

ASSOCIATED DOC: 20009S 25214A
TRACKING NO. KING2001 L9003 R0405-1 R108-4 R109-77
R9103 R9502
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT - HDP LOADS ASSESSMENT

1. DESCRIPTION: WAVE ANALYSIS LAB PMS POST TEST DATA REQUIREMENT

PROVIDE 5-MINUTE DATA SAMPLES OF MEASUREMENTS LISTED FOR THE FOLLOWING EVENTS:
(1) AFTER ARRIVAL AT PAD (S0009)
(2) PRE ROLLBACK (S0038)

HDP AXIALS/SHEARS		HDP STUDS	
KMSG(X)	106A-115A	KMSG(X)	104A-105A
	206A-215A		204A-205A
	306A-315A		304A-305A
	406A-415A		404A-405A
	506A-515A		504A-505A
	606A-615A *		604A-605A
	706A-715A *		704A-705A
KMSG(X)	806A-815A *	KMSG(X)	804A-805A

LEGEND
(X) = F (MLP-1)
(X) = G (MLP-2)
(X) = H (MLP-3)

* = KMSG(X) 614A-615A, 714A-715A, 814A-815A,
NOT RECORDED WHEN MLP-3 IS USED.

METRO	PADS A AND B	
KMTH(Y)	001A	60FT CAMERA SITE 6 WIND DIR
KMTH(Y)	002A	60FT CAMERA SITE 3 WIND DIR
KMTL(Y)	001A	60FT CAMERA SITE 6 WIND SPEED
KMTL(Y)	002A	60FT CAMERA SITE 3 WIND SPEED

CONTINUED

[PRD] DATABASE RECORD: 544187
ITEM NUMBER: H7.1K

KMTP(Y)	001A	CAMERA SITE 3 BAR PRESS
KMTQ(Y)	001A	6FT CAMERA SITE 3 REL HUM
KMTQ(Y)	002A	60FT CAMERA SITE 3 REL HUM
KMTQ(Y)	003A	60FT CAMERA SITE 6 REL HUM
KMTT(Y)	001A	CAMERA SITE 3 TEMP
KMTT(Y)	002A	CAMERA SITE 6 TEMP
KMTT(Y)	004A	60FT CAMERA SITE 3 TEMP
KMTT(Y)	005A	60FT CAMERA SITE 6 TEMP

LEGEND
(Y) = A (PAD A)
(Y) = D (PAD B)

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
(1)	(ELECTRONIC	1	E+48 HRS	MSFC DATA REDUCTION
(2)	DATA FILES)		E+48 HRS	CENTER

POINT OF CONTACT: MSFC/JACKIE WALKER/USA/256-971-3068
JONNIE STREET/USK-637/321-861-4249

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 I-NE-C2 USK-637

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/24/01
RESPONSE TRACKING: Z9019 Z9103 Z9502

[PRD] DATABASE RECORD: 16592 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/15/06
INITIAL DATE: 03/27/92
ITEM NUMBER: H10K DATE LAST CHANGED: 01/25/07
SECTION: 2630 TIME LAST CHANGED: 12:11:23

REQUESTER: MSFC
SUBREQUESTER: MEMO20 MS154 MS254 PEDF
USA
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 L4914 L5726 L6603 L8003
L9003 R0405-1 R0609-9 R109-77 R8501
R9103

CONTINUED

[PRD] DATABASE RECORD: 16592
ITEM NUMBER: H10K

PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT/IGNITION OVERPRESSURE LOADS ASSESSMENT

1. DESCRIPTION: WAVE ANALYSIS LAB PMS POST TEST DATA REQUIREMENT

PROVIDE DATA FOR THE MEASUREMENTS LISTED FOR THE FOLLOWING EVENTS:
(1) FULL DURATION OF PRE CALS
(2) LIFTOFF MINUS 10 SECONDS THRU FULL DURATION OF POST CALS

ALL PRESSURES

MLP-1	MLP-2	MLP-3	DESCRIPTIONS
KITPF 007A	KITPG 007A	KITPH 007A	CAPPED XDCR
KSRPF 020A	KSRPG 001A	KSRPH 001A	IOP LO2 TSM
023A	002A	002A	IOP LH2 TSM
027A	003A	003A	IOP ORB EXHAUST HOLE
032A	025A	025A	IOP RIGHT SRM
KSRPF 067A	KSRPG 018A	KSRPH 018A	IOP LEFT SRM
KSRPF 001A	KSRPG 001A	KSRPH 001A	TOP OF TSM - LOX
KSRPF 002A	KSRPG 002A	KSRPH 002A	TOP OF TSM - LH2
KSRPF 003A	KSRPG 003A	KSRPH 003A	TOP OF ORB.EXHAUST HOLE(SIDE 3)
KSRPF 087A	KSRPG 087A		CENTER OF TSM - LOX, Y
KSRPF 088A	KSRPG 088A		CENTER OF TSM - LH2, Y
KSRPF 090A	KSRPG 090A		TOP OF R SRB DUCT, BTWN HDP'S 2 & 4, (S4)
KSRPF 091A	KSRPG 091A		TOP OF R SRB HOLE, CTR OF NORTH WALL (S3)
KSRPF 092A	KSRPG 092A		TOP FO L SRB DUCT, BTWN HDP'S 6 & 8 (S3)
KSRPF 093A	KSRPG 093A		TOP OF L SRB HOLE, CTR OF NORTH WALL (S3)

PAD-A	PAD-B	DESCRIPTIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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CONTINUED

[PRD] DATABASE RECORD: 16592
ITEM NUMBER: H10K

KSAPB 003A	KSAPE 003A	PAD IGNITION OVERPRESSURE
006A	006A	ET VENT HAUNCH PIVOT FIXTURE
023A	023A	ET VENT HAUNCH PIVOT FIXTURE
031A	031A	GOX VENT HOOD PRESSURES
KSAPB 039A	KSAPE 039A	OAA IGNITION OVERPRESSURE
KSRYC 023A	KSRY5 023A	PCR ACOUSTIC

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
(1)	(ELECTRONIC DATA FILES)	1	E+6 HOURS	MSFC DATA REDUCTION CENTER JACKIE WALKER, MSFC, WILL COORDINATE ANY ADDITIONS/CHANGES IN MEASUREMENTS

POINT OF CONTACT: MSFC/JACKIE WALKER/USA/256-971-3068
JONNIE STREET/USK-637/WAL/321-861-4249

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 I-NE-C2 USK-637

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/15/06
RESPONSE TRACKING: Z0405-1 Z4910 Z5733 Z6602 Z8021
Z8501 Z9019 Z9103

[PRD] DATABASE RECORD: 518621 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/05/04
INITIAL DATE: 06/09/92
ITEM NUMBER: H13K DATE LAST CHANGED: 01/25/07
SECTION: 2630 TIME LAST CHANGED: 12:12:23

REQUESTER: MSFC
SUBREQUESTER: 091101A BNA/ZK-03 MEMO20 MS252
PEDF PRMT USA
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 L4914 L5014 L6603 L8001
L9003 R0405-1 R108-4 R109-77 R8501

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CONTINUED

[PRD] DATABASE RECORD: 518621
ITEM NUMBER: H13K

R9103 RSRR120 RSRR181A
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: WAVE ANALYSIS LAB PMS PRE TEST DATA REQUIREMENTS (CHANNEL ID)

PROVIDE PRE LAUNCH CHANNELIZATION DATA FOR MEASUREMENTS LISTED:

HDP AXIALS/SHEARS		HDP STUDS		
KMSG(X)	106A-115A	KMSG(X)	104A-105A	
	206A-215A		204A-205A	
	306A-315A		304A-305A	
	406A-415A		404A-405A	
	506A-515A		504A-505A	LEGEND
	606A-615A*		604A-605A	(X) = F (MLP-1)
	706A-715A*		704A-705A	(X) = G (MLP-2)
KMSG(X)	806A-815A*	KMSG(X)	804A-805A	(X) = H (MLP-3)

* = KMSGH 614A-615A, 714A-715A, 814A-815A
NOT RECORDED WHEN MLP-3 IS USED

MLP 1	MLP 2	MLP 3	DESCRIPTIONS
KITPF 007A	KITPG 007A	KITPH 007A	CAPPED XDCR
KSRPF 020A	KSRPG 001A	KSRPH 001A	IOP LO2 TSM
023A	002A	002A	IOP LH2 TSM
027A	003A	003A	ORB EXHAUST HOLE
032A	025A	025A	IOP RIGHT SRM
KSRPF 067A	KSRPG 018A	KSRPH 018A	IOP LEFT SRM

PAD A	PAD B	DESCRIPTIONS
KSAPB 003A	KSAPE 003A	PAD IGNITION OVERPRESSURE
006A	006A	ET VENT HAUNCH PIVOT FIXTURE
023A	023A	ET VENT HAUNCH PIVOT FIXTURE
031A	031A	GOX VENT HOOD PRESSURES
KSAPB 039A	KSAPE 039A	OAA IGNITION OVERPRESSURE
KSRYC 023A	KSRY5 023A	PCR ACOUSTIC

CONTINUED

[PRD] DATABASE RECORD: 518621
ITEM NUMBER: H13K

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	(ELECTRONIC DATA FILES)	1	ON REQUEST ONLY (E-3 WD)	MSFC DATA REDUCTION CENTER JACKIE WALKER, MSFC, WILL COORDINATE ANY ADDITIONS/ CHANGES IN MEASUREMENTS

POINT OF CONTACT: MSFC/JACKIE WALKER/USA/256-971-3068
JONNIE STREET/USK-637/321-861-4249

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 I-NE-C2 USK-637

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/05/04
RESPONSE TRACKING: Z0405-1 Z4910 Z5030 Z6602 Z8010
Z8501 Z9019 Z9103

[PRD] DATABASE RECORD: 518619 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/21/02
INITIAL DATE: 06/09/92
ITEM NUMBER: H16K DATE LAST CHANGED: 06/05/07
SECTION: 2630 TIME LAST CHANGED: 12:21:17

REQUESTER: MSFC
SUBREQUESTER: 091101A I-PH-B MEMO20 MS153
MS156 MS171 MS231 MS254
PEDF USA
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20007S 20037S
TRACKING NO. KING2001 L4914 L5014 L5107 L5416
L5703 L6819 L7203 L8003 L9003
LSRR138 R0405-1 R108-4 R109-77 R6564
R9903 RSRR120
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT/LOADS ASSESSMENT

CONTINUED

[PRD] DATABASE RECORD: 518619
ITEM NUMBER: H16K

1. DESCRIPTION: WAVE ANALYSIS LAB PMS POST TEST DATA REQUIREMENT

PROVIDE DATA FOR MEASUREMENTS LISTED FOR THE FOLLOWING EVENTS:

HOLD DOWN POSTS ONLY
(1) FULL DURATION OF PRE CALS BEFORE CHILLDOWN
(2) 5 MINUTES OF DATA AT 30-MINUTE INTERVALS STARTING AT 5 MINUTES BEFORE CHILLDOWN THRU 30 MINUTES BEFORE LIFTOFF. FOR AN ABORT, FRF, OR SCRUB, PROVIDE 5 MINUTES OF DATA AT 30 - MINUTE INTERVALS STARTING AT MINUTES BEFORE CHILLDOWN THRU DETANK COMPLETE.

(3) 2 MINUTES BEFORE LIFTOFF THRU LIFTOFF PLUS 20 SECONDS THROUGH FULL DURATION OF POST CALS.

METRO ONLY
(4) 5 MINUTES BEFORE CHILLDOWN THRU LIFTOFF PLUS 3 MINUTES. FOR AN ABORT, FRF, OR SCRUB PROVIDE DATA 5 MINUTES BEFORE CHILLDOWN THRU DETANK COMPLETE.

HDP STUDS	HDP AXIALS/SHEARS	
KMSG(X) 104A-105A	KMSG(X) 106A-115A	
204A-205A	206A-215A	
304A-305A	306A-315A	
404A-405A	406A-415A	
504A-505A	506A-515A	LEGEND
604A-605A	606A-615A *	(X) = F (MLP-1)
704A-705A	706A-715A *	(X) = G (MLP-2)
KMSG(X) 804A-805A	KMSG(X) 806A-815A *	(X) = H (MLP-3)

* = KMSG(X) 614A-615A, 714A-715A, 814A-815A, NOT RECORDED WHEN MLP-3 IS USED.

METRO PADS A AND B

KMTH(Y)001A	60 FT CAMERA SITE 6 WIND DIR	LEGEND
KMTH(Y)002A	60 FT CAMERA SITE 3 WIND DIR	(Y) = A (PAD A)
KMTL(Y)001A	60 FT CAMERA SITE 6 WIND DIR	(Y) = D (PAD B)

CONTINUED

[PRD] DATABASE RECORD: 518619
ITEM NUMBER: H16K

KMTL(Y)002A 60 FT CAMERA SITE 3 WIND DIR
KMTP(Y)001A CAMERA SITE 3 BAR PRESS
KMTQ(Y)001A 6 FT CAMERA SITE 3 REL HUM
KMTQ(Y)002A 60 FT CAMERA SITE 3 REL HUM
KMTQ(Y)003A 60 FT CAMERA SITE 6 REL HUM
KMTT(Y)001A CAMERA SITE 3 TEMP
KMTT(Y)002A CAMERA SITE 6 TEMP
KMTT(Y)004A 60 FT CAMERA SITE 3 TEMP
KMTT(Y)005A 60 FT CAMERA SITE 3 TEMP

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
(1)	(ELECTRONIC	1	E+6 HRS	MSFC DATA REDUCTION CENTER
(2)	DATA FILES)		E+72 HRS	
(3)			E+6 HRS	
(4)			E+6 HRS	

POINT OF CONTACT: MSFC/JACKIE WALKER/USA/256-971-3068
JONNIE STREET/USK-637/321-861-4249

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 I-NE-C2 USK-637

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/21/02
RESPONSE TRACKING: Z4910 Z5030 Z5114 Z5419 Z5703
Z6555 Z6821 Z7506 Z8021 Z9019
Z9103 Z9905

[PRD] DATABASE RECORD: 589340 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/15/06
INITIAL DATE: 09/15/06
ITEM NUMBER: H24K DATE LAST CHANGED: 01/25/07
SECTION: 2630 TIME LAST CHANGED: 12:12:23

REQUESTER: MSFC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. R0609-9

CONTINUED

[PRD] DATABASE RECORD: 589340
ITEM NUMBER: H24K

1. DESCRIPTION: WAVE ANALYSIS LAB GMS2 POST TEST DATA
REQUIREMENT - LO2 & LH2 T-ZERO INTERFACE

PROVIDE DATA FOR THE MEASUREMENTS LISTED FOR THE FOLLOWING EVENTS:

(1) FULL DURATION OF PRE CALS
(2) LIFTOFF MINUS 10 SECONDS THRU FULL DURATION OF POST CALS

ALL PRESSURES

MLP-1	MLP-2	MLP-3	DESCRIPTIONS
KUMDF 001A	KUMDG 001A		LH2 CARRIER PLATE, UPPER LEFT (ORB)
KUMDF 002A	KUMDG 002A		LH2 CARRIER PLATE, UPPER RIGHT (ORB)
KUMDF 003A	KUMDG 003A		LH2 CARRIER PLATE, NEAR J61 (ORB)
KUMDF 004A	KUMDG 004A		LH2 CARRIER PLATE, NEAR J61 (ORB)
KUMDF 005A	KUMDG 005A		LH2 CARRIER PLATE, NEAR LINE 23 (ORB)
KUMDF 006A	KUMDG 006A		LH2 CARRIER PLATE, ABOVE 46 (ORB)
KUMDF 007A	KUMDG 007A		LH2 CARRIER PLATE, NEAR LINE 21 (ORB)
KUMDF 008A	KUMDG 008A		LH2 CARRIER PLATE, NEAR J53 (ORB)
KUMDF 009A	KUMDG 009A		LH2 CARRIER PLATE, NEAR J53 (ORB)
KUMDF 010A	KUMDG 010A		LH2 CARRIER PLATE, NEAR J53 (ORB)
KUMDF 011A	KUMDG 011A		LH2 CARRIER PLATE, NEAR J71 (ORB)
KUMDF 012A	KUMDG 012A		LH2 CARRIER PLATE, NEAR J71 (ORB)
KUMDF 013A	KUMDG 013A		LH2 CARRIER PLATE, NEAR J71 (ORB)

CONTINUED

[PRD] DATABASE RECORD: 589340
ITEM NUMBER: H24K

KUMDF 014A	KUMDG 014A	LH2 CARRIER PLATE, J55 CONNECTOR (ORB)
KUMDF 015A	KUMDG 015A	LH2 CARRIER PLATE, J55 CONNECTOR (ORB)
KUMDF 016A	KUMDG 016A	LH2 CARRIER PLATE, J55 CONNECTOR (ORB)
KUMDF 017A	KUMDG 017A	LH2 CARRIER PLATE, J69 CONNECTOR (ORB)
KUMDF 018A	KUMDG 018A	LH2 CARRIER PLATE, J69 CONNECTOR (ORB)
KUMDF 019A	KUMDG 019A	LH2 CARRIER PLATE, J69 CONNECTOR (ORB)
KUMDF 020A	KUMDG 020A	LH2 CARRIER PLATE, J59 CONNECTOR (ORB)
KUMDF 021A	KUMDG 021A	LH2 CARRIER PLATE, J59 CONNECTOR (ORB)
KUMDF 022A	KUMDG 022A	LH2 CARRIER PLATE, J59 CONNECTOR (ORB)
KUMHF 015A	KUMHG 015A	LH2 CARRIER PLATE, LINE J63 PLT TO ORB DISP
KUMHF 016A	KUMHG 016A	LH2 CARRIER PLATE, LINE 46 PLT TO ORB DISP
KUMHF 017A	KUMHG 017A	LOX CARRIER PLATE, LINE 931 PLT TO ORB DISP

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
(1)	(ELECTRONIC DATA FILES)	1	E+6 HOURS	MSFC DATA REDUCTION CENTER JACKIE WALKER, MSFC, WILL COORDINATE ANY ADDITIONS/ CHANGES IN MEASUREMENTS

POINT OF CONTACT: MSFC/JACKIE WALKER/USA/256-971-3068
JONNIE STREET/USK-637/WAL/321-861-4249

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 I-NE-C2 USK-637

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2630 - OTHER SYSTEMS - ENVIRONMENTAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 589340
ITEM NUMBER: H24K

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/15/06

[PRD] DATABASE RECORD: 325662 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/29/98
INITIAL DATE: 06/18/91
ITEM NUMBER: H201K DATE LAST CHANGED: 11/07/06
SECTION: 2630 TIME LAST CHANGED: 13:16:20

REQUESTER: MSFC
SUBREQUESTER: I-PH-B MEMO20 MS050 MS103
MSFC PTLP
TEST CODE: BL KSC STSALL VAP

ASSOCIATED DOC: 20007S 25214A
TRACKING NO. KING2001 L3109 L4103 L4914 MK98
R0405-1 R109-77 R2735 R2873 R3440
R3452 R3512 R3918 R4219 R4307
R9504
PRIORITY: MANDATORY
RATIONALE: TEMPERATURE READOUT OF SRM JOINTS. DATA USED FOR PERFORMANCE CALCULATION FOR LAUNCH. NOT A PERFORMANCE DATA.

1. DESCRIPTION: WAL TABULAR PRINTOUT

PROVIDE DAILY 24-SAMPLE SUMMARIES OF THE FOLLOWING MEASUREMENTS FOR CAMERA SITES 3 AND 6 ON PADS A AND B:

	PAD-A	PAD-B
CAMERA SITE 3:		
WIND DIRECTION	KMTHA002A	KMTHD002A
WIND SPEED	KMTLA002A	KMTLD002A
TEMPERATURE	KMTTA001A	KMTTD001A
TEMPERATURE	KMTTA004A	KMTTD004A
RELATIVE HUMIDITY	KMTQA001A	KMTQD002A
RELATIVE HUMIDITY	KMTQA002A	KMTQD002A
CAMERA SITE 6:		

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2630 - OTHER SYSTEMS - ENVIRONMENTAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 325662
ITEM NUMBER: H201K

WIND DIRECTION	KMTHA001A	KMTHD001A
WIND SPEED	KMTLA001A	KMTLD001A
TEMPERATURE	KMTTA002A	KMTTD002A
TEMPERATURE	KMTTA005A	KMTTD005A
RELATIVE HUMIDITY	KMTQA003A	KMTQD003A

DATA DISPOSITION

REF	DATA TYPE	QTY	TIME REQ.	RECIPIENT/REMARKS
1	MET LOG	1	EVERY 24 HRS	MSFC LOCAL REP: MARTYN EASTWOOD THIO-LSS 321-861-6721 FAX 321-861-6344

POINT OF CONTACT: JONNIE STREET/USK-637/321-861-4249

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 USK-637

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/29/98
RESPONSE TRACKING: Z2831 Z3426 Z3439 Z3509 Z3923
Z4116 Z4226 Z4311 Z4910 Z9504

[PRD] DATABASE RECORD: 15398 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/20/95
INITIAL DATE: 05/29/91
ITEM NUMBER: T202K DATE LAST CHANGED: 06/05/07
SECTION: 2630 TIME LAST CHANGED: 12:21:52

REQUESTER: JSC
SUBREQUESTER: I-PH-B JSC/WS8 MEMO20
TEST CODE: BL KSC STSALL

ASSOCIATED DOC: 20028S
TRACKING NO. KING2001 L210-5 L4037 L4914 L507-4
L5228 R109-77 SHAW95
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT - METRO DATA

CONTINUED

[PRD] DATABASE RECORD: 15398
ITEM NUMBER: T202K

1. DESCRIPTION: LCC FLOPPY DISK

PROVIDE 5 1/4 OR 3 1/2 INCH FLOPPY DISK OF MAG TAPE DATA TAKEN FROM THE FOLLOWING SLF METRO MEAS. DURING S0028 (SHUTTLE LANDINGS AT KSC):

INFO: TAPE RUN TIME IS E-15 MIN TO E+15 MIN.
(E = VEHICLE TOUCHDOWN AT KSC)

SLF:	KMTLM001A	SLF	SITE 3	WIND SPEED
	KMTLM002A	SLF	SITE 4	WIND SPEED
	KMTLM003A	SLF	SITE 5	WIND SPEED
	KMTHM002A	SLF	SITE 3	WIND DIRECTION
	KMTHM003A	SLF	SITE 4	WIND DIRECTION
	KMTHM004A	SLF	SITE 5	WIND DIRECTION

NOTE: DATA ON FLOPPY DISK WILL BE IN ENGINEERING UNITS AT A SAMPLE RATE OF 1 SAMPLE PER SECOND.

PRIME REQUESTER: WAYNE BAGGETT/JSC/ZS8/281 483-2226
(JSC SPACE FLIGHT METRO GROUP)

TECHNICAL CONTACT: JOHN MADURA/YA-D/321 867-0814

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	FLOPPY DISK (5 1/4 OR 3 1/2)	1	WITHIN 2 WORKING DAYS	FRANK BRODY/JSC/ZS8/ 281 483-5639

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 I-NE-C2

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/15/95
RESPONSE TRACKING: Z4044 Z4910 Z5228 Z7202

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2630 - OTHER SYSTEMS - ENVIRONMENTAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD:	532600	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	LLS	APPROVAL DATE:	02/20/04
		INITIAL DATE:	03/19/96
ITEM NUMBER:	H203K	DATE LAST CHANGED:	01/25/07
SECTION:	2630	TIME LAST CHANGED:	12:13:37

REQUESTER: MSFC
SUBREQUESTER: B-NS/ZK-86 JSC/B-NS/HOU KSC/NE-C2
TEST CODE: KSC STSALL

ASSOCIATED DOC: 25303B 25306B
TRACKING NO. A106-1 KING2001 L04-2-1 L603-2 L711-2
L7615 L7705 L7912 L8707 L9003
R0402-1 R109-77
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT/HOLDDOWN POST LOADS ESTIMATE DATA

1. DESCRIPTION: LCC HDP LOAD ESTIMATE DATA

USA INSTRUMENTATION (LCC RM 2P20) WILL PROVIDE B-NS HOUSTON
WITH THE LOAD ESTIMATE DATA CALCULATED FOR EACH SRB SEGMENT, ET MATE, AN

ORBITER MATE IN TABULAR FORM. INCLUDE THE SERIAL NUMBER OF ANY HDP
INSTALLED AFTER LAST FLOW.

PRIME REQUESTER: KSC/B-NS/ZK-86
TOM WILSON/321-861-4704

TECHNICAL CONTACT: KSC/USK-637/JONNIE STREET/321 861-4249

POINT OF CONTACT: KEN FORD/USK-637/321 861-0681

DATA DISPOSITION

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	E-MAIL REPORT	1	E + 1 WD	BONISLAV GUIMPELSON/B-NS/HOU (bonislav.guimpleson@boeing.com) 281 226-8526
2	E-MAIL REPORT	1	E + 1 WD	TOM WILSON/B-NS/ZK-86 321-861-4704

CONTINUED

[PRD] DATABASE RECORD: 532600
ITEM NUMBER: H203K

				THOMAS.WILSON-1@ksc.nasa.gov
3	E-MAIL REPORT	1	E + 1 WD	DUANE BASTIA/B-NS/HOU duane.l.bastia@boeing.com 281 226-8519
4.	E-MAIL	1	E + 1 WD	JOHN STEPHENS/B-NS/HOU john.l.stephens@boeing.com 281 226-5783

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: USK-637

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/20/04
RESPONSE TRACKING: Z8001 Z8720 Z9019

[PRD] DATABASE RECORD: 325418 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/21/95
INITIAL DATE: 11/22/91
ITEM NUMBER: H902K DATE LAST CHANGED: 11/20/06
SECTION: 2630 TIME LAST CHANGED: 09:19:08

REQUESTER: MSFC
SUBREQUESTER: I-PH-B MS222 MSFC
TEST CODE: KSC STSALL
TRACKING NO. L2914 L6907 R109-77 R2735
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: TEMP SRB SEGMENTS - KSC/VAB

MSFC/TC-LSS REQUIRES CONTINUOUS TEMPERATURE RECORDING DURING SRB STACKING (VAB) NEAR THE MIDDLE OF THE FORWARD SEGMENTS AND NEAR THE MIDDLE OF THE AFT SEGMENT OF THE SRM. MONITOR AND RECORD CONTINUOUSLY, THE AMBIENT ENVIRONMENT FOR THE SRB FOR A MINIMUM OF 75 DAYS PRIOR TO LAUNCH. TEST EQUIPMENT (HYGROTHERMOGRAPH) AND PERSONNEL FOR WORK WILL BE PERFORMED BY THIO-LSS. KSC WILL PERFORM MANY REQUIRED CALIBRATION OF TEST EQUIPMENT.

CONTINUED

[PRD] DATABASE RECORD: 325418
ITEM NUMBER: H902K

EQUIPMENT AND DEVICES: PER KSC CHANGE EVALUATION PCIN 05556.

TECH CONTACT: MARTYN EASTWOOD/THIO-LSS/321 861-3596

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
H1	CHART	1	L-4 WK	MARTYN EASTWOOD/KSC
H2	CHART	1	L-10 CD	MARTYN EASTWOOD/KSC
H3	CHART	1	L+12 HRS	MARTYN EASTWOOD/KSC

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-NE-E3 THIO-LSS

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/12/96
RESPONSE TRACKING: Z2962 Z8021

[PRD] DATABASE RECORD: 325161 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/21/95
INITIAL DATE: 02/02/89
ITEM NUMBER: H903K DATE LAST CHANGED: 01/25/07
SECTION: 2630 TIME LAST CHANGED: 12:16:25

REQUESTER: MSFC
SUBREQUESTER: I-PH-B MS222 MSFC
TEST CODE: KSC STSALL
TRACKING NO. KING2001 L9003 R108-4 R109-77 R9504
PRIORITY: REQUIRED
RATIONALE: ENGINEERING DATA REQUIRED FOR HOLDDOWN POST LOADS ASSESSMENT.

1. DESCRIPTION: TEMPERATURE NEAR MIDDLE OF THE STORED SRB SEGMENTS - KSC / VAB

MSFC/TC-LLS REQUIRES MONITORING AND RECORDING CONTINUOUSLY, THE

CONTINUED

[PRD] DATABASE RECORD: 325161
ITEM NUMBER: H903K

AMBIENT ENVIRONMENT FOR THE SRBS FOR A MINIMUM OF 75 DAYS PRIOR TO LAUNCH. TEST EQUIPMENT (HYGROTHERMOGRAPH) AND PERSONNEL FOR WORK WILL BE PROVIDED BY THIO-LSS. KSC WILL PERFORM ANY REQUIRED CALIBRATION OF TEST EQUIPMENT.

EQUIPMENT AND DEVICES: PER KSC CHANGE EVALUATION PCIN 05556.

VAB - PORTABLE CONTINUOUS RECORDING, AMBIENT TEMP. MEAS. EQUIP.

TECH CONTACT: MARTYN EASTWOOD/THIO-LSS/321 861-6721

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
H1	CHART	1	L-4 WK	MARTYN EASTWOOD/THIO-LSS
H2	CHART	1	L-10 CD	MARTYN EASTWOOD/THIO-LSS
H3	CHART	1	L+12 HR	MARTYN EASTWOOD/THIO-LSS

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-NE-C2 I-NE-E1 TBC-350
USK-637

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/15/95
RESPONSE TRACKING: Z9019 Z9504

[PRD] DATABASE RECORD: 544190 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/22/02
INITIAL DATE: 03/26/98
ITEM NUMBER: H907K DATE LAST CHANGED: 01/25/07
SECTION: 2630 TIME LAST CHANGED: 12:12:23

REQUESTER: MSFC
SUBREQUESTER: 091101A I-PH-B PEDF USA
TEST CODE: STS91

ASSOCIATED DOC: 20037S

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2630 - OTHER SYSTEMS - ENVIRONMENTAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 544190
ITEM NUMBER: H907K

TRACKING NO. KING2001 L9003 R0405-1 R108-4 R109-77 R9504
PRIORITY: REQUIRED
RATIONALE: ENGINEERING DATA REQUIRED FOR HOLDDOWN POST LOADS ASSESSMENT.

1. DESCRIPTION: WAVE ANALYSIS LAB PMS POST TEST DATA REQUIREMENT

PROVIDE DATA FOR THE HDP MEASUREMENTS LISTED BELOW FOR THE FOLLOWING EVENTS:

(1) FULL DURATION OF PRE CALS BEFORE LH2 CHILLDOWN
(2) CONTINUOUS DATA FROM LH2 CHILLDOWN THROUGH DETANKING OR POST CALS

HDP STUDS	HDP AXIALS/SHEARS
KMSG(X) 104A-105A	KMSG(X) 106A-115A
204A-205A	206A-215A
304A-305A	306A-315A
404A-405A	406A-415A
504A-505A	506A-515A
604A-605A	606A-615A *
704A-705A	706A-715A *
KMSG(X) 804A-805A	KMSG(X) 806A-815A *

LEGEND
(X) = F (MLP-1)
(X) = G (MLP-2)
(X) = H (MLP-3)

* = KMSG(X) 614A-615A, 714A-715A, 814A-815A, NOT RECORDED WHEN MLP-3 IS USED.

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
(1)	ELECTRONIC DATA FILES+	1	E+1 WD	MSFC DATA REDUCTION CENTER

POINT OF CONTACT: JACKIE WALKER/USA/256-971-3068
JONNIE STREET/USK-637/321-861-4249

CONTINUED

[PRD] DATABASE RECORD: 544190
ITEM NUMBER: H907K

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 I-NE-C2 USK-637

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/22/02
RESPONSE TRACKING: Z9019 Z9504

[PRD] DATABASE RECORD: 555762 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/22/02
INITIAL DATE: 05/08/00
ITEM NUMBER: H908K DATE LAST CHANGED: 11/07/06
SECTION: 2630 TIME LAST CHANGED: 13:58:50

REQUESTER: MSFC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20009S 20017S 20024S
25214A
TRACKING NO. KING2001 L101-5 R109-77 SCRUB06
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT/HPD LOADS/FATIGUE ANALYSIS

1. DESCRIPTION: MLP HDP STRAINS, HDP LOAD ESTIMATES AND METEOROLOGICAL DATA RECORDED DURING 30 KNOTS OR GREATER SUSTAINED WINDS

PROVIDE MLP HDP AXIALS, HDP LOAD ESTIMATES, AND METEOROLOGICAL DATA WHEN A PARTIALLY STACKED OR INTEGRATED SPACE SHUTTLE VEHICLE IS ON THE PAD OR LOCATED ELSEWHERE SUCH THAT MLP HOLDDOWN POST STRAINS MAY BE RECORDED WHEN WINDS ARE EQUAL TO OR GREATER THAN 30 KNOTS SUSTAINED. PROVIDE DATA THROUGH THE SUSTAINED WINDS ENVELOPE PLUS ONE HOUR.

EFFECTIVITY: STS-92, STS-97 THRU STS-98, STS-100 THRU STS-102, STS-104 THRU STS-999

MSID REQUIREMENT:

HDP AXIALS (SAMPLE RATE EQUAL TO OR GREATER THAN 98 SAMPLES

CONTINUED

[PRD] DATABASE RECORD: 555762
ITEM NUMBER: H908K

PER SECOND).

KMSG(X) 106A-113A
206A-213A
306A-313A
406A-413A
506A-513A
606A-613A
706A-713A
KMSG(X) 806A-813A

LEGEND:
(X) = F (MLP-1)
(X) = G (MLP-2)
(X) = H (MLP-3)

METEOROLOGICAL MEASUREMENTS (SAMPLE RATE = 1 SAMPLE PER SECOND)

KMTH (Y) 001A
(Y) 002A
KMTL (Y) 001A
(Y) 002A

LEGEND:
(Y) = A (PAD A)
(Y) = D (PAD B)

DATA DISTRIBUTION:

REF.	DATA TYPE	QTY	TIME REQUIRED	RECIPIENT/REMARKS
1.	ELECTRONIC FILE (RAW DATA)	1	E + 2 WD	MSFC DATA REDUCTION CENTER J. WALKER/256 971-3068
2.	ELECTRONIC FILE (LOAD ESTIMATES)	1	E + 2 WD	USA-SRB STEVE BROLLIAR/USK-841 321-867-7976

TO PROVIDE HOLDDOWN POST LOADS AND ASSOCIATED WIND DIRECTION AND VELOCITY DATA WHEN WINDS EXCEED 30 KNOTS OR GREATER SUSTAINED VELOCITY FROM ANY DIRECTION AT THE 60 FOOT LEVEL. THIS DATA WILL BE USED TO PERFORM A FATIGUE DAMAGE ANALYSIS ON THE SRB HARDWARE. CHIT NUMBER H0770 WAS APPROVED AT THE SPECIAL DAILY PRCB DECEMBER 01, 1999 FOR STS-103 AND STS-99. REFERENCE SPACE SHUTTLE PROGRAM REQUIREMENTS CONTROL BOARD DIRECTIVE NO. S053293VNFOR EXTENDED EFFECTIVITY TO INCLUDE STS-92, STS-97 THRU STS-98, STS-100 THRU STS-102, STS-104 THRU STS-999.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2630 - OTHER SYSTEMS - ENVIRONMENTAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 555762
ITEM NUMBER: H908K

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 USK-637

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/22/02

[PRD] DATABASE RECORD: 591477 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/24/07
INITIAL DATE: 04/24/07
ITEM NUMBER: HK909K DATE LAST CHANGED: 04/24/07
SECTION: 2630 TIME LAST CHANGED: 09:29:29

REQUESTER: MSFC KSC
SUBREQUESTER: KSC/USK-634
TEST CODE:

ASSOCIATED DOC: 25214A 25217A
TRACKING NO. R0704-3

1. DESCRIPTION: MLP HDP AXIAL STRAIN GAGES, HDP STUD STRAIN GAGES, MLP ACCELEROMETERS, ORBITER AFT ACCELEROMETERS, MLP WIND SPEED & DIRECTION MEASUREMENTS, AND CT VELOCITY DURING INTEGRATED SPACE SHUTTLE VEHICLE TRANSFER TO PAD (A5214) OR TRANSFER TO VAB (A5217)

RECORD MLP HDP AXIAL STRAIN GAGES, HDP STUD STRAIN GAGES, MLP ACCELEROMETERS, ORBITER AFT ACCELEROMETERS, MLP WIND SPEED & DIRECTION MEASUREMENTS, AND CT VELOCITY DURING INTEGRATED SPACE SHUTTLE VEHICLE TRANSFER TO PAD (A5214) OR TRANSFER TO VAB (A5217). THE ACCELEROMETER AND LOADS DATA WILL BE USED TO ASSESS THE FATIGUE LOAD ENVIRONMENT EXPERIENCED BY THE SSV IF THE 0.8 MPH CT VELOCITY CONSTRAINT IS EXCEEDED.

NOTE: ORBITERS OV-104 AND OV-105 WILL HAVE TEMPORARY ACCELEROMETERS (3) INSTALLED IN THE AFT COMPARTMENT. ORBITER OV-103 WILL USE EXISTING DRAG CHUTE CAVITY ACCELEROMETERS AS A BASELINE WITH OPTIONAL USE OF THE ORBITER AFT STRUCTURE ACCELEROMETERS IN ADDITION TO (AS A SUPPLEMENT TO THE DATA SET) OR INSTEAD OF CHUTE CAVITY ACCELEROMETERS (IN THE EVENT OF A NON-FUNCTIONING CHUTE CAVITY ACCELEROMETER).

CONTINUED

[PRD] DATABASE RECORD: 591477
ITEM NUMBER: HK909K

PROVIDE HOLDDOWN POST STRAIN/LOAD, MLP & ORBITER VIBRATION, CT VELOCITY, AND ASSOCIATED WIND DIRECTION/VELOCITY DATA IF THE 0.8 MPH CT VELOCITY CONSTRAINT IS EXCEEDED.

TECH CONTACT: KSC/FRANK WALKER/USK-634/321 861-3099

EFFECTIVITY: STS-117 THRU STS-120, STS-122 THRU STS-999

MSID REQUIREMENT:

HDP & STUD STRAIN MEASUREMENTS (SAMPLE RATE= 100 SAMPLES PER SECOND)

HDP STUDS		HDP AXIALS	
KMSG(X)	104A-105A	KMSG(X)	106A-113A
	204A-205A		206A-213A
	304A-305A		306A-313A
	404A-405A		406A-413A
	504A-505A		506A-513A
	604A-605A		606A-613A
	704A-705A		706A-713A
KMSG(X)	804A-805A	KMSG(X)	806A-813A

LEGEND
(X) = F (MLP-1)
(X) = G (MLP-2)
(X) = H (MLP-3)

MLP ACCELEROMETERS (SAMPLE RATE = 100 SAMPLES PER SECOND)

KSRD(X) 301A-324A

LEGEND
(X) = F (MLP-1)
(X) = G (MLP-2)
(X) = H (MLP-3)

ORBITER AFT STRUCTURE ACCELEROMETERS - OV-104 & OV-105 (BASELINE), OV-103 (SUPPLEMENTAL/CONTINGENCY) (SAMPLE RATE = 100 SAMPLES PER SECOND)

KVMD(X) 201A-203A

LEGEND
(X) = F (MLP-1)
(X) = G (MLP-2)

CONTINUED

[PRD] DATABASE RECORD: 591477
ITEM NUMBER: HK909K

(X) = H (MLP-3)

ORBITER DRAG CHUTE CAVITY ACCELEROMETERS - OV-103 ONLY (SAMPLE RATE = 100 SAMPLES PER SECOND)

KVMD(X) 027A-029A LEGEND
(X) = F (MLP-1)
(X) = G (MLP-2)
(X) = H (MLP-3)

MLP METEOROLOGICAL MEASUREMENTS (SAMPLE RATE = 100 SAMPLES PER SECOND)

KMTH(X) 005A LEGEND
KMTL(X) 007A (X) = F (MLP-1)
(X) = G (MLP-2)
(X) = H (MLP-3)

CT VELOCITY (SAMPLE RATE = 100 SAMPLES PER SECOND)

KCTL(Z) 001A LEGEND
(Z) = I (CT-1)
(Z) = J (CT-2)

DATA DISPOSITION:

REF.	DATA TYPE	QTY	TIME REQUIRED	RECIPIENT/REMARKS
1	ELECTRONIC FILE (RAW DATA)	1	E + 2 WD	MSFC DATA REDUCTION CENTER/J. WALKER 256 971-3068
2	ELECTRONIC FILE (HDP LOAD ESTIMATES)	1	E + 2 WD	USA-SRB STEVE BROLLIAR/USK-841 321 867-7976

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)

CONTINUED

[PRD] DATABASE RECORD: 591477
ITEM NUMBER: HK909K

SUBSUPPLIER: USK-634

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/24/07

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2640 - OTHER SYSTEMS - DATA

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 322408 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/13/02
INITIAL DATE: 07/07/89
ITEM NUMBER: G1T DATE LAST CHANGED: 02/12/07
SECTION: 2640 TIME LAST CHANGED: 08:12:34

REQUESTER: GSFC
SUBREQUESTER: GSFC/450.1
TEST CODE: STSALL
TRACKING NO. KING2001 L2807 R109-61 R2850
PRIORITY: MANDATORY
RATIONALE: MISSION SUCCESS

1. DESCRIPTION: JSC WILL PROVIDE GSFC WITH PREMISSION TRAJECTORY DATA IN ACCORDANCE WITH THE TRAJECTORY D-TAPE INTERFACE CONTROL DOCUMENT, JSC-22689. THE TRAJECTORY DATA WILL BE OF SUFFICIENT ACCURACY TO PROVIDE ACQUISITION DATA TO THE SN AND GN TRACKERS.

(NOTE: THIS REQUIREMENT IS ALSO INCLUDED IN THE FLIGHT PRD, SECTION FLS2100, ITEM NO. G45.1T, DBR 009090 AS IT AFFECTS ALL PHASES.)

COORDINATION: GSFC/599.0/WARREN MITCHELL/301 286-5092

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/03/02
RESPONSE TRACKING: Z107-1 Z28121 Z2843

[PRD] DATABASE RECORD: 343657 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/14/99
INITIAL DATE: 07/18/90
ITEM NUMBER: E2T DATE LAST CHANGED: 02/12/07
SECTION: 2640 TIME LAST CHANGED: 08:13:16

REQUESTER: ER
TEST CODE: JSC STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 L3824 R109-61 R2880 R9305

1. DESCRIPTION: THE ER REQUIRES A REPORT OF CRITICAL EVENT TIMES (LIFT-OFF, SRB SEPARATION, ET SEPARATION, MECO, OMS-1 IGNITION AND CUTOFF AND OMS-2 IGNITION AND CUTOFF) TO CSR DATA REDUCTION AND ANALYSIS, P.O. BOX 4127,CSR4123B,

CONTINUED

[PRD] DATABASE RECORD: 343657
ITEM NUMBER: E2T

PATRICK AFB, FL. 32925-0127 BY ONE WORK DAY OR AS SOON AS POSSIBLE AFTER THE LAUNCH. THIS INFORMATION IS USED IN THE REDUCTION OF SMOOTHED METRIC DATA.

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	SHEET	1	FAX ASAP	FRANK PANNELL, 321 494-9778 FAX 321 494-9764

POC: ER/MIKE GAWEL/CSR/321 853-8118

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/14/99
RESPONSE TRACKING: Z2866 Z3834 Z9305

[PRD] DATABASE RECORD: 345728 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/14/99
INITIAL DATE: 06/16/89
ITEM NUMBER: E3H DATE LAST CHANGED: 11/20/06
SECTION: 2640 TIME LAST CHANGED: 09:45:21

REQUESTER: ER
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 R109-61 R2880 R9305 SCRUB06

1. DESCRIPTION: ANTENNA PATTERNS

ANTENNA PATTERNS FOR RANGE SAFETY RECEIVERS WILL BE REQUIRED BY L-90 CD PRIOR TO FLIGHT WHENEVER ANTENNA CONFIGURATIONS ARE CHANGED IN ACCORDANCE WITH SAMTO REGULATION 80-4.

CONTINUED

[PRD] DATABASE RECORD: 345728
ITEM NUMBER: E3H

TO BE PROVIDED TO:
CSR DATA REDUCTION AND ANALYSIS
P.O. BOX 4127, CSR 4123B
PATRICK AFB, FL. 32925-0127

POC: MSFC/MP41/KATE MATUS/256 544-4873

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	SHEET	1	L-90 CD	ER/CSR - 4123B

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/14/99
RESPONSE TRACKING: Z2866 Z9305

[PRD] DATABASE RECORD: 359739 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/14/99
INITIAL DATE: 06/16/89
ITEM NUMBER: EK6KT DATE LAST CHANGED: 02/12/07
SECTION: 2640 TIME LAST CHANGED: 08:20:23

REQUESTER: ER KSC
SUBREQUESTER: TA-E-A
TEST CODE: STSALL
TRACKING NO. DB98 KING2001 L6905 R109-61 R2880
R9305 SHAW95
PRIORITY: MANDATORY
RATIONALE: MANDATORY DATA FOR RANGE SAFETY

1. DESCRIPTION: RANGE SAFETY REQUIRED DATA

IN ACCORDANCE WITH SAMTO REGULATION 80-12, JSC IS REQUIRED TO PROVIDE OPERATIONAL TRAJECTORY AND PERFORMANCE DATA FOR RANGE SAFETY SUPPORT DURING THE ASCENT PHASE. ORBITER, SRB & ET DATA ARE REQUIRED IN ACCORDANCE WITH EWR 127-1. THIS INFORMATION

CONTINUED

[PRD] DATABASE RECORD: 359739
ITEM NUMBER: EK6KT

SHOULD BE PROVIDED AS IT BECOMES AVAILABLE BUT NOT LATER THAN L-28 WD. IN CASE OF A SEASONAL SLIP, ALL ESSENTIAL AFFECTED RANGE SAFETY DATA WILL BE SUPPLIED ON AN EXPEDITED BASIS.

THE FOLLOWING SPECIFIC DATA ARE REQUIRED FOR THE SHUTTLE IN MAGNETIC TAPE AND TABULAR FORM IN 80-12 FORMAT AT 1 SECOND RATE INTERVALS:

1. NOMINAL ASCENT FROM LIFT-OFF THROUGH MECO.
2. LAUNCH AREA STEEPEST AND LAUNCH AREA LATERAL FOR HEADWIND AND TAILWIND (4 CASES) FROM LIFT-OFF TO SRB SEPARATION.
3. MAXIMUM, MINIMUM, 3 SIGMA LEFT, RIGHT INSTANTANEOUS IMPACT POINT (4 CASES) FROM LIFT-OFF TO MECO.
4. CONTINGENCY STEEPEST MULTIPLE SSME FAILURES, XZ AND YZ PLANES FOR HEADWIND AND TAILWIND (FOUR TO EIGHT CASES, AS REQUIRED FOR WORST CASE) FROM LIFT-OFF TO SRB SEPARATION.
5. SINGLE SSME FAILURE AT LIFT-OFF GIVING A MINIMUM INSTANTANEOUS IMPACT POINT TRAJECTORY FROM LIFT-OFF TO SRB SEPARATION.
6. EARLIEST RTLS NOMINAL PERFORMANCE FROM LIFT-OFF TO MECO.

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	MAG TAPE	2	L-28 WD	KSC/NAMO(TA-E-A) WILL PROVIDE 1 CY TO CSR DATA REDUCTION AND ANALYSIS, P.O.BOX 4127, CSR4123B PATRICK AFB,FL. 32925-0127
2	TAB	2	L-28 WD	KSC/NAMO (TA-E-A) WILL PROVIDE 1 CY TO CSR DATA REDUCTION AND ANALYSIS, P.O.BOX 4127, CSR4123B PATRICK AFB,FL. 32925-0127

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: TA-E-A

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/14/99

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2640 - OTHER SYSTEMS - DATA

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 359739
ITEM NUMBER: EK6KT

RESPONSE TRACKING: Z2866 Z7405 Z9305

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/14/99
RESPONSE TRACKING: Z2866 Z6907 Z7201 Z9305

[PRD] DATABASE RECORD: 358349 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/20/95
INITIAL DATE: 06/16/89
ITEM NUMBER: EK7KT DATE LAST CHANGED: 02/12/07
SECTION: 2640 TIME LAST CHANGED: 08:23:13

REQUESTER: ER KSC
SUBREQUESTER: TA-E-A
TEST CODE: STSALL
TRACKING NO. DB98 KING2001 R109-61 R2880 SHAW95
PRIORITY: MANDATORY
RATIONALE: MANDATORY DATA FOR RANGE SAFETY

1. DESCRIPTION: RANGE SAFETY REQUIRED DATA

THE FOLLOWING SPECIFIC DATA ARE REQUIRED FOR SRB IN TABULAR FORM (EVENTS) OR PLOT (GROUND TRACK OR FOOTPRINT) FORMAT (THIS IS A MANDATORY RANGE SAFETY REQUIREMENT IAW EWR 127-1, PARA. 2.6.2.5. AND 2.6.2.6.):

1. SEQUENCE OF EVENTS.
2. NOMINAL AND RTLS FOOTPRINT.

POC: MIKE GAWEL/321 853-8118

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	TAB OR PLOT	3	L-28 WD	KSC/NAMO (TA-E-A) WILL PROVIDE 45 RANS/DOU, 1 COPY AND

CONTINUED

[PRD] DATABASE RECORD: 358349
ITEM NUMBER: EK7KT

45 SW/SEOS 1 COPY.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: TA-E-A

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/06/95
RESPONSE TRACKING: Z2866 Z7405

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/14/95
RESPONSE TRACKING: Z2866 Z7201

[PRD] DATABASE RECORD: 360372 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/27/95
INITIAL DATE: 06/16/89
ITEM NUMBER: EK8KT DATE LAST CHANGED: 02/12/07
SECTION: 2640 TIME LAST CHANGED: 08:25:17

REQUESTER: ER KSC
SUBREQUESTER: TA-E-A
TEST CODE: STSALL
TRACKING NO. DB98 KING2001 R109-61 R2880 SHAW95
PRIORITY: MANDATORY
RATIONALE: MANDATORY DATA FOR RANGE SAFETY.

1. DESCRIPTION: RANGE SAFETY REQUIRED DATA

THE FOLLOWING SPECIFIC DATA ARE REQUIRED FOR ET IN TABULAR FORM (EVENTS) OR PLOT (GROUND TRACK OR FOOTPRINT) FORMAT (THIS IS A MANDATORY RANGE SAFETY REQUIREMENT IAW EWR 127-1, PARA. 2.6.2.5. AND 2.6.2.6.):

1. SEQUENCE OF EVENTS.
2. ET RUPTURE AND BREAKUP ALTITUDE.
3. ET IMPACT FOOTPRINT.

POC: MIKE GAWEL/321 853-8118

CONTINUED

[PRD] DATABASE RECORD: 360372
ITEM NUMBER: EK8KT

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	TAB OR PLOT	3	L-28 CD	KSC/NAMO (TA-E-A) WILL PROVIDE 45 RANS/DOU 1 COPY AND 45 SW/SEOS 1 COPY.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: TA-E-A

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/06/95
RESPONSE TRACKING: Z2866 Z7405

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/18/95
RESPONSE TRACKING: Z2866 Z6907

[PRD] DATABASE RECORD: 348001 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/27/95
INITIAL DATE: 06/16/89
ITEM NUMBER: EK9KT DATE LAST CHANGED: 02/12/07
SECTION: 2640 TIME LAST CHANGED: 08:26:52

REQUESTER: ER KSC
SUBREQUESTER: TA-E-A
TEST CODE: STSALL
TRACKING NO. DB98 KING2001 L7006 R109-61 R2880
SHAW95
PRIORITY: MANDATORY
RATIONALE: MANDATORY DATA FOR RANGE SAFETY

1. DESCRIPTION: RANGE SAFETY REQUIRED DATA

A MISSION SPECIFIC RANGE SAFETY ANALYSIS DISPOSAL
DOCUMENT/REPORT IS REQUIRED. IN ACCORDANCE WITH
EWR 127-1 PARAGRAPH 2.5.8.1.1 GENERAL REQUIREMENTS;
ESTIMATES OF THE NOMINAL IMPACT POINT AND THE THREE
SIGMA DRAG CORRECTED IMPACT DISPERSION AREA FOR EACH

CONTINUED

[PRD] DATABASE RECORD: 348001
ITEM NUMBER: EK9KT

JETTISONED BODY IS REQUIRED.

POC: MIKE GAWEL/321 853-8118
TECH. CONTACT: JSC/DM4/G. OLIVER/281 483-1921

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	REPORT	3	L-28 CD	KSC/NAMO (TA-E-A) WILL PROVIDE 45 RANS/DOU 1 COPY AND 45 SW/SEOS 1 COPY.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: TA-E-A

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/06/95
RESPONSE TRACKING: Z2866 Z7405

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
SUBSUPPLIER: JSC/DM4

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/20/95
RESPONSE TRACKING: Z2866 Z6902 Z6907

[PRD] DATABASE RECORD: 358205 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/14/99
INITIAL DATE: 06/28/91
ITEM NUMBER: E10KT DATE LAST CHANGED: 02/12/07
SECTION: 2640 TIME LAST CHANGED: 08:47:05

REQUESTER: ER
TEST CODE: STSALL
TRACKING NO. KING2001 L4304 L6905 R109-61 R2708
R2880 R4211 R9305 SHAW95

1. DESCRIPTION: METRIC TRACKING ACQUISITION & PLANNING DATA

CONTINUED

[PRD] DATABASE RECORD: 358205
ITEM NUMBER: E10KT

JSC IS REQUIRED TO PROVIDE ER ONE COPY OF THE FOLLOWING FLIGHT AND CLOSE TO LAUNCH CYCLE MISSION DATA:
(ENGINEERING CYCLE IS NOT REQUIRED).

PRODUCT #	PRODUCT DESCRIPTION
ASCT L28	USSPACECOM DATA PACKAGE INPUTS
ASCT 20A	COMM COVERAGE ASCENT (PRE) (SEE NOTE)
ASCT 20B	COMM COVERAGE ASCENT (POST) (SEE NOTE)
DATA 03	PAO SEQUENCE OF EVENTS
ONOR 12	FINAL LANDING OPPORTUNITIES
ONOR 33	ORBITAL COMM COVERAGE (64 STA)
ONOR C38	ORBITAL STATE VECTOR (EFE ONLY)
DSCT 26	DESCENT MISSION SUMMARY

NOTE: ALREADY AVAILABLE GENERIC DATA FOR 28.5 AND 57 DEGREE INCLINATION WILL BE USED. ASCT 20A AND B WILL BE REQUIRED ONLY WHEN NOT EITHER OF THOSE TWO INCLINATIONS.

DATA DISPOSITION:
THESE PAPER PRODUCTS FROM JSC FLIGHT DESIGN AND DYNAMICS DIV. (FDDD)
SHOULD BE MADE AVAILABLE BY MAIL TO: NETWORK OPERATIONS, CSR 3212
P.O. BOX 4127
PATRICK AFB, FL 32925-0127

OR VIA COMPUTER-COMPUTER INTERFACE 28 WD PRIOR TO LAUNCH.
JSC SEND COPY OF TRANSMITTAL LETTER TO: KSC NAMO (TA-E-A)
ATTN: WILLIAM HAASE

POC - JSC: CHERYL ANDREWS/DM21/281 483-5979
KSC: WILLIAM HAASE/TA-E-A/321 494-6272
ER: MIKE GAWEL/321 853-8118

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: TA-E-A

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/14/99
RESPONSE TRACKING: Z2959 Z4216 Z4322 Z6866 Z7405

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2640 - OTHER SYSTEMS - DATA

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 358205
ITEM NUMBER: E10KT

Z9305

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/14/99
RESPONSE TRACKING: Z2866 Z2959 Z4216 Z4322 Z4705
Z9305

[PRD] DATABASE RECORD: 358368 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/06/95
INITIAL DATE: 06/08/90
ITEM NUMBER: H13K DATE LAST CHANGED: 01/25/07
SECTION: 2640 TIME LAST CHANGED: 12:29:12

REQUESTER: MSFC
SUBREQUESTER: MS211
TEST CODE: 25407B RETREV STSALL

ASSOCIATED DOC: 25407B
TRACKING NO. KING2001 L3555 ML014-90 R109-61 R7108
SCRUB06 SHAW95
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: RETRIEVAL DATA

A. COPY OF RETRIEVAL SHIPS LOGS EXTRACTS SHOWING THE FOLLOWING INFORMATION.

1. RECORD THE MAXIMUM DETECTED RADAR RANGE OF EACH SRB AND FRUSTUM DURING RETRIEVAL SEARCH.

2. VERIFY AND RECORD THAT THE FLASHING LIGHTS ARE FUNCTIONAL DURING OR AFTER RETRIEVAL OPERATIONS.
   A. NIGHTTIME VISUAL OBSERVATION
   B. DECKSIDE OR DOCKSIDE TESTS

CONTACT: USA/JOSEPH CHAPUT/USK-705/321 853-4032

CONTINUED

[PRD] DATABASE RECORD: 358368
ITEM NUMBER: H13K

B. SEARCH VESSELS REPORT OF SUNKEN SRB (CONTINGENCY ONLY)

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	LOG EXTRACT	1	3 CD	MSFC REP/TINA WILLIAMS/USA-SRB/ USK/890/321-867-1128
2	REPORT	1	3 CD	" "

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-NE-E1 USK-705

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/08/90
RESPONSE TRACKING: Z3565

[PRD] DATABASE RECORD: 257742 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/30/00
INITIAL DATE: 08/26/88
ITEM NUMBER: T15KXZ DATE LAST CHANGED: 03/20/07
SECTION: 2640 TIME LAST CHANGED: 07:54:54

REQUESTER: JSC
SUBREQUESTER: JSC/MV MER
TEST CODE: EAFB KSC STSALL WSSH

ASSOCIATED DOC: 20026S 20027S 20028S
TRACKING NO. A106-1 KING2001 L04-2-1 L210-6 L508-1
L5311 L711-2 L8707 L901-2 R0402-1
R109-61 R26248 R26269 R6523 R9310
SCRUB06 SHAW94 SHAW95

1. DESCRIPTION: TOUCHDOWN MEASUREMENTS (OMRSD V51AGO.060)

JSC REQUIRES THE FOLLOWING TOUCHDOWN MEASUREMENTS IN SUPPORT OF LANDINGS AT EAFB, KSC AND WSSH:

CONTINUED

[PRD] DATABASE RECORD: 257742
ITEM NUMBER: T15KXZ

A. DISTANCE FROM MAIN GEAR TOUCHDOWN AND NOSE GEAR TOUCHDOWN TO STOP. FINAL DATA REQUIRES ACCURACY WITHIN PLUS OR MINUS 100 FEET OF TOTAL ROLLOUT DISTANCE.

B. DISTANCE FROM THE RUNWAY THRESHOLD TO THE TOUCHDOWN POINT OF EACH MAIN LANDING GEAR. ACCURACY IS WITHIN 10 FEET.

C. LATERAL DISTANCE FROM RUNWAY CENTERLINE TO THE TOUCHDOWN POINT OF EACH MAIN GEAR. ACCURACY IS WITHIN 10 FEET.

D. WHEEL STOP FROM RUNWAY THRESHOLD AND LATERAL DISTANCE MEASUREMENTS FROM CENTER OF EACH MAIN GEAR. RIGHT OF CENTERLINE IS POSITIVE; LEFT OF CENTERLINE IS NEGATIVE. ACCURACY IS WITHIN ONE FOOT.

METHOD OF DATA ACQUISITION IS LEFT TO THE IMPLEMENTOR. PRELIMINARY RESULTS ARE REQUIRED TO BE TRANSMITTED AS SOON AS POSSIBLE. FINAL REPORT WILL INCLUDE WRITTEN DESCRIPTION OF LANDING RESULTS AND FINAL DATA.

PRIME REQUESTER: JSC/MV/KENNETH BROWN/281 483-3891

PRELIMINARY AND FINAL DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	REPORT RAPIDFAX	1	ASAP	A: JSC-MER FAX 281 483-4747 B: THOMAS L. HOFFMAN/B-NS/HOU FAX 281 853-1523 C: JEFF GOODMARK/N-NS-HOU FAX 281 244-5918
2	REPORT BY MAIL	1	ASAP	A: MOISES MONTEZ/JSC/EG4 281 483-0460 B: D. COOPER/JSC/EV/RSO 281 483-0890
3	COLOR PRINTS	1	ASAP	A: CARLISLE CAMPBELL/JSC/ES2

CONTINUED

[PRD] DATABASE RECORD: 257742
ITEM NUMBER: T15KXZ

281 483-8948
B: GAIL HARGROVE B-NS/HS4-40
281 226-5575

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: NE-M7 USK-251

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 05/30/00
RESPONSE: INFO ONLY:
NE-M6 PROVIDES PHOTOS AND PRELIMINARY/FINAL
MEASUREMENTS FOR KSC LANDINGS ONLY.

RESPONSE TRACKING: Z26138 Z26166 Z5312 Z6513 Z7922
Z8720

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/30/00
RESPONSE TRACKING: Z26166 Z5315 Z6513 Z7503 Z8720

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/30/00
RESPONSE TRACKING: Z26146 Z2839 Z3009 Z5315 Z6513
Z7925 Z8720

[PRD] DATABASE RECORD: 334340 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/26/94
INITIAL DATE: 07/11/89
ITEM NUMBER: E26KT DATE LAST CHANGED: 02/12/07
SECTION: 2640 TIME LAST CHANGED: 08:52:09

REQUESTER: ER
TEST CODE: STSALL

ASSOCIATED DOC: 20007S

CONTINUED

[PRD] DATABASE RECORD: 334340
ITEM NUMBER: E26KT

TRACKING NO. KING2001 L2808 R109-61 R2880 R6523
SHAW94

1. DESCRIPTION: PROVIDE ER WITH "EPOCH AND INERTIAL TO EARTH-FIXED TRANSLATION", LISTING THE RNP (ROTATION, NUTATION, PRECESSION) DAY OF LAUNCH MATRIX AND THE T-EPOCH THAT APPLIES IN TRANSFORMING THE INERTIAL VECTOR TO EARTH FIXED (EFG). PROVIDE ER WITH REVISIONS TO THE RNP MATRIX AND T-EPOCH AS THEY OCCUR.

POC: MIKE GAWEL/321 853-8118

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	REPORT	1	L-20 WD	45 RANS/DOU THRU TA-E-A (NAMO)

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: TA-E-A

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/26/94
RESPONSE TRACKING: Z6513

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/26/94
RESPONSE TRACKING: Z2866 Z2882 Z6513

[PRD] DATABASE RECORD: 13062 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/14/99
INITIAL DATE: 06/16/89
ITEM NUMBER: E29K DATE LAST CHANGED: 02/12/07
SECTION: 2640 TIME LAST CHANGED: 08:54:28

REQUESTER: ER
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20008S 20009S 20014S
20017S 20028S 20044S 25009S

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2640 - OTHER SYSTEMS - DATA

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 13062
ITEM NUMBER: E29K

TRACKING NO. KING2001 L3940 R109-61 R2880 R9305
SCRUB06

1. DESCRIPTION: OMI'S REQUIRED BY ER FOR TEST SUPPORT

ALL OMI'S REQUIRING ER SUPPORT WILL BE PROVIDED TO:
MANAGER OPERATIONS CONTROL
CSR 3200 CCAFS

AT LEAST SEVEN CALENDAR DAYS PRIOR TO THE SCHEDULED SUPPORT.

SPECIFIC OMI'S REQUIRED ARE:

S0007 SHUTTLE COUNTDOWN (.100, .200, .300, .500, .600)
S0008 SHUTTLE INTERFACE TEST (.101, .102)
S0009 SHUTTLE LAUNCH PAD VALIDATION (.101, .102)
S0014 FLIGHT READINESS FIRING (VOLS I, II, III, IV, V, VI)
S0017 TERMINAL COUNT DEMONSTRATION (.100, .200, .300)
S0028 KSC LANDING (.100, .200, .300, .400, .500)
S0044 SHUTLE FINAL COUNTDOWN PHASE SIMULATION
S5009 FINAL ORDNANCE INSTALLATION/CONNECTION, AND AFT CLOSEOUT (.100, .102)
D3012 INTER-CENTER END-TO-END COMMUNICATIONS CHECK

NOTE: OMI'S WILL BE DISTRIBUTED PER THE DISTRIBUTION LIST PROVIDED WITH EACH OMI. THE REQUESTER MUST VERIFY THAT THEY ARE ON DISTRIBUTION BY SENDING REDLINE CHANGES TO OMI DISTRIBUTION (USK-187) OR CALLING /321 861-0863.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-PH-I USK-187

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/14/99
RESPONSE TRACKING: Z2866 Z3982 Z9305

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2640 - OTHER SYSTEMS - DATA

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 13063 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/02/99
INITIAL DATE: 03/28/91
ITEM NUMBER: E30G DATE LAST CHANGED: 11/29/06
SECTION: 2640 TIME LAST CHANGED: 09:11:48

REQUESTER: ER
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20007S 20014S 20017S 20026S
20027S 20028S
TRACKING NO. KING2001 L2729 R109-61 R3004 R3940
R9311

1. DESCRIPTION: FINAL DRAFT COPIES OF TEST/OPERATIONS SEQUENCES
WILL BE PROVIDED WITHIN 28 WD FOR ALL TESTS/OPERATIONS.
ANY CHANGES RECEIVED AFTER FINAL DRAFT IS PREPARED, WILL BE COORDINATED
WITH GSFC/JSC VIA TELECON. THE FINALIZED LAUNCH TERMINAL COUNT IS
TRANSMITTED IN ISI FORM TO ALL SHUTTLE SUPPORTING ENTITIES AT L MINUS
10 DAYS AND UPDATED AS REQUIRED (BY ISI) TO LAUNCH MINUS 12 HOURS.

TECH CONTACT: ER/MIKE GAWEL/321 853-8118

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/02/99
RESPONSE TRACKING: Z2750 Z3016 Z3982 Z9313

[PRD] DATABASE RECORD: 13064 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/01/99
INITIAL DATE: 06/16/89
ITEM NUMBER: E31G DATE LAST CHANGED: 01/16/07
SECTION: 2640 TIME LAST CHANGED: 07:19:47

REQUESTER: ER
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 R109-61 R2880 R9311

1. DESCRIPTION: PROVIDE ER WITH ASSIGNMENT OF CIRCUITS FOR
OPERATIONAL NET REQUIREMENTS BETWEEN NISN AND CCAFS FOR EACH

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2640 - OTHER SYSTEMS - DATA

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 13064
ITEM NUMBER: E31G

SIMULATION AND MISSION BY TEST (EVENT) MINUS 10 WD.

TECH CONTACTS: GENE PUGH/CSR 3220/321 853-8322
ER/MIKE GAWEL/321 853-8118.

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/01/99
RESPONSE TRACKING: Z26155 Z2866 Z9313

[PRD] DATABASE RECORD: 13065 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/24/89
INITIAL DATE: 02/24/89
ITEM NUMBER: E32T DATE LAST CHANGED: 11/29/06
SECTION: 2640 TIME LAST CHANGED: 09:12:40

REQUESTER: ER
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 L2954 R109-61

1. DESCRIPTION: DE-ORBIT OPPORTUNITIES TABLES:
PROVIDE 45 RANS/DOS AND DDMS THE DE-ORBIT OPPORTUNITIES TABLES FOR EACH MISSION BY L-10 CD. UPDATES AFTER L-10 CD WILL BE PROVIDED AS SOON AS AVAILABLE VIA THE NASA ELECTRONIC MAIL SYSTEM.

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	DE-ORBIT OPPORTUNITY TABLES	1	L-10 CD	45 RANS/DOU VIA NASA ELECTRONIC MAIL
2	"	1	L-10 CD	ER/CSR " "
3	"	1	L-10 CD	DDMS " "

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
SUBSUPPLIER: JSC/DM3

CONTINUED

[PRD] DATABASE RECORD: 13065
ITEM NUMBER: E32T

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/10/89
RESPONSE TRACKING: Z29110

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 201054 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/29/89
INITIAL DATE: 03/29/89
ITEM NUMBER: E3K DATE LAST CHANGED: 09/19/06
SECTION: 2700 TIME LAST CHANGED: 12:26:50

REQUESTER: ER
SUBREQUESTER: FR3/4
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 KING2001 R109-31
PRIORITY: MANDATORY
RATIONALE: LCC REQUIREMENT

1. DESCRIPTION: LC 39 FR RANGE SAFETY CONSOLE

THE ER RANGE SAFETY REPRESENTATIVE (RSR) REQUIRES TWO OIS UNITS AT THE RANGE SAFETY CONSOLE IN THE LCC FIRING ROOMS 3 & 4 IN ORDER TO CONDUCT PRELAUNCH TESTS AND LAUNCH PREPARATION TESTS OF THE COMMAND DESTRUCT SYSTEM.

POINT OF CONTACT: ER/MIKE GAWEL/321 853-8118

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/29/89
RESPONSE TRACKING: Z26183

[PRD] DATABASE RECORD: 260384 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/26/89
INITIAL DATE: 07/26/89
ITEM NUMBER: K4X DATE LAST CHANGED: 03/20/07
SECTION: 2700 TIME LAST CHANGED: 07:56:53

REQUESTER: KSC
SUBREQUESTER: TA-E2
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 L2831 R109-31 R26200
R2809
PRIORITY: MANDATORY
RATIONALE: MANDATORY FOR COMMUNICATION FOR SECURITY AT EAFB.

CONTINUED

[PRD] DATABASE RECORD: 260384
ITEM NUMBER: K4X

1. DESCRIPTION: FOR PRIMARY/SECONDARY LANDING SITE, A COMMUNICATIONS CAPABILITY IS REQUIRED BETWEEN SECURITY AND THE FOLLOWING:

1. TOWER OPERATOR
2. CONVOY COMMANDER
3. OTHER SUPPORT UNITS

TECH CONTACT: KSC/TA-E2/321 867-2465

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/26/89
RESPONSE TRACKING: Z2695 Z28106

[PRD] DATABASE RECORD: 274853 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/28/94
INITIAL DATE: 06/14/89
ITEM NUMBER: D6K DATE LAST CHANGED: 05/30/07
SECTION: 2700 TIME LAST CHANGED: 10:51:26

REQUESTER: HSFS
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. KING2001 R109-31 R2809 R2856 R6505 R6520 SHAW94
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR DoD CONTINGENCY RESPONSE CAPABILITY AT WSSH.

1. DESCRIPTION: FOR LANDINGS AT WHITE SANDS SPACE HARBOR, A COMMUNICATION CAPABILITY IS REQUIRED BETWEEN FIRE SERVICES AND THE DOD ON-SCENE COMMANDER (WHO CONTROLS ALL DOD CONTINGENCY RESPONSE FORCES LOCALLY).

TECH CONTACT: (D) HSFS-O/321 494-5116

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 274853
ITEM NUMBER: D6K

SUBSUPPLIER: PH-L USK-426

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/29/94
RESPONSE TRACKING: Z6507

[PRD] DATABASE RECORD: 200652 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/29/90
INITIAL DATE: 01/29/90
ITEM NUMBER: D8X DATE LAST CHANGED: 03/20/07
SECTION: 2700 TIME LAST CHANGED: 07:57:37

REQUESTER: HSFS
TEST CODE: DFRC EAFB S0026.200 S0026.300
STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. KING2001 L3615 R109-31
PRIORITY: MANDATORY
RATIONALE: REQUIRED TO COORDINATE DoD CONTINGENCY SUPPORT.

1. DESCRIPTION: TWO VHF/FM (NON TACTICAL) MOBILE TRANSCEIVERS
ARE REQUIRED IN THE CONVOY COMMAND VEHICLES AT DFRC FOR THE DOD
"ON-SCENE COMMANDER" TO COMMUNICATE WITH THE FIRE/CRASH
NET (173.4375 MHZ) AND COMMAND NET.

TECH CONTACT: (D) DDMS-O/321 494-5116
PH-L/DEAN SCHAAF/321 861-9311
USK-426/MIKE KUTA/321-861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/30/90
RESPONSE TRACKING: Z3612

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 188282 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/25/91
INITIAL DATE: 03/25/91
ITEM NUMBER: K9GTX DATE LAST CHANGED: 03/20/07
SECTION: 2700 TIME LAST CHANGED: 07:58:11

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. COMREV05 DB98 KING2001 L3725 R109-31
R26200
PRIORITY: MANDATORY
RATIONALE: SAFETY REQUIREMENT. ONLY LINK TO KSC FOR THIS OPERATION.
LOSS OF COMMUNICATION COULD CAUSE PERSONNEL INJURY.

1. DESCRIPTION: PROVIDE REAL TIME 2-WAY VOICE COMMUNICATION
VIA THE RF COOLING NET BETWEEN THE LCC AT KSC AND
THE CONVOY COOLING GSE TEAM ON THE RUNWAY AT DFRC.

PRIME: KSC/PH-L/DEAN SCHAAF/321 861-9311

TECHNICAL CONTACT: KSC/USK-426/MIKE KUTA/321 861-3890

REF. SECTION 2750, DBR 319131.

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/25/91
RESPONSE TRACKING: Z2726

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/286 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/25/91
RESPONSE TRACKING: Z3726

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/25/91

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 188282
ITEM NUMBER: K9GTX

RESPONSE TRACKING: Z2695 Z3726

[PRD] DATABASE RECORD: 240506 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/25/91
INITIAL DATE: 03/25/91
ITEM NUMBER: K10GTX DATE LAST CHANGED: 03/20/07
SECTION: 2700 TIME LAST CHANGED: 07:58:47

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. COMREV05 DB98 KING2001 L3725 R109-31
R26200
PRIORITY: MANDATORY
RATIONALE: SAFETY REQUIREMENT. ONLY LINK TO FLIGHT TEAM AT KSC FOR RUNWAY OPERATIONS.

1. DESCRIPTION: PROVIDE REAL TIME 2-WAY VOICE COMMUNICATIONS VIA THE RF CONVOY COMMANDER NET BETWEEN CONSOLES IN THE LCC AT KSC TO SELECTED MEMBERS OF THE CONVOY ON THE RUNWAY AT DFRC.

PRIME: KSC/PH-L/DEAN SCHAAF/321 861-9311
TECHNICAL CONTACT: KSC/USK-426/MIKE KUTA/321 861-3890

REF. SECTION 2750, DBR 246851.

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/25/91
RESPONSE TRACKING: Z3726

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/25/91
RESPONSE TRACKING: Z3726

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 240506
ITEM NUMBER: K10GTX

SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/25/91
RESPONSE TRACKING: Z2695 Z3726

[PRD] DATABASE RECORD: 2218 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/15/02
INITIAL DATE: 06/01/83
ITEM NUMBER: K11GTX DATE LAST CHANGED: 03/20/07
SECTION: 2700 TIME LAST CHANGED: 07:59:35

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L
TEST CODE: EAFB KSC STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. COMREV05 DB98 KING2001 L2740 L3725
R109-31 R113-1 R26200
PRIORITY: MANDATORY
RATIONALE: SAFETY REQUIREMENT TO PROTECT PERSONNEL AND ORBITER.
WORKING CHANNEL FOR ENGINEERING SUPPORT AT KSC.

1. DESCRIPTION: VOICE COMM KSC TO DFRC

PROVIDE R/T 2-WAY VOICE COMMUNICATIONS BETWEEN KSC AND DFRC VIA SEPARATE OIS CIRCUITS DURING GROUND OPS AT THE MDD AND ORBITER HANGAR. UP TO TEN CIRCUITS WILL BE REQUIRED.

CIRCUITS:

LRD
OTC
COOLING VHF NET/ECLSS/ECS
CONVOY COMMANDER VHF NET
COMM MAINTENANCE
ORBITER SYSTEMS A (PV&D OR PURGE VHF NET)
ORBITER SYSTEMS B (HYPERGOLIC OR MONITOR ONLY OF LFP1)
ORBITER SYSTEMS C (PE-1)
ORBITER SYSTEMS D (A/G-1 LONGLINE MONITOR ONLY)

CONTINUED

[PRD] DATABASE RECORD: 2218
ITEM NUMBER: K11GTX

ORBITER UHF (MONITOR ONLY)
EDWARDS COORDINATION (MONITOR ONLY OF LFP2)
MISSION COMM COORD.

REF. SECTION 2700, DBR 220438, ITEM K50X.

PRIME: KSC/PH-L/DEAN SCHAAF/321 861-9311
KSC/USK-426/MIKE KUTA/321 861-3980

COMM CONTACT: DFRC/GEORGE GRIMSHAW/661 276-3425

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: TONY WILLIAMS/301 286-4286

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/24/02
RESPONSE TRACKING: Z113-3 Z2906 Z3726

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 486-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/15/02
RESPONSE TRACKING: Z113-1 Z2980 Z3726

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/04/02
RESPONSE TRACKING: Z2936 Z3726

[PRD] DATABASE RECORD: 244921 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/21/99
INITIAL DATE: 03/25/91
ITEM NUMBER: K13GTX DATE LAST CHANGED: 03/20/07
SECTION: 2700 TIME LAST CHANGED: 08:00:20

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L
TEST CODE: EAFB KSC STSALL

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 244921
ITEM NUMBER: K13GTX

ASSOCIATED DOC: 20026S
TRACKING NO. COMREV05 DB98 KING2001 L3725 R109-31
R26200 R2732 R9309
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR COMMUNICATIONS WITH ENGINEERING SUPPORT AT KSC.

1. DESCRIPTION: PROVIDE REAL TIME 2-WAY COMMUNICATION VIA ORBITER UHF RF FROM THE ORBITER AT DFRC TO THE CONSOLES IN THE LCC AT KSC.

PRIME: KSC/PH-L/DEAN SCHAAF/321 861-9311

TECHNICAL CONTACT: KSC/USK-426/MIKE KUTA/321 861-3980
DFRC/GEORGE GRIMSHAW/661 276-3425
COMM CONTACT: KSC/IT-D2-A/MONIQUE MCLAMB/321 867-3540

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/01/99
RESPONSE TRACKING: Z2732 Z3726 Z9311

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/21/99
RESPONSE TRACKING: Z2758 Z3726 Z9310

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276--3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/21/99
RESPONSE TRACKING: Z2695 Z2936 Z3726 Z9311

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 250504 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/14/89
INITIAL DATE: 06/14/89
ITEM NUMBER: K14KX DATE LAST CHANGED: 03/20/07
SECTION: 2700 TIME LAST CHANGED: 08:00:56

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S 25022S
TRACKING NO. COMREV05 DB98 KING2001 L4314 R109-31
R2862
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR ALL COMMUNICATION SYSTEMS DESIGN AND MODIFICATIONS.

1. DESCRIPTION: INSTALL KSC-DESIGNED, AND SUPPLIED MODIFICATIONS TO MAINTAIN OPERATIONAL COMMUNICATIONS SYSTEMS INCLUDING OIS, PAGING AND AREA WARNING AND VOICE RADIO SYSTEMS AT DFRC.

TECHNICAL CONTACT: DEAN SCHAAF/PH-L/321 861-9311
MIKE KUTA/USK-426/321 861-3890

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/27/01

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/08/91
RESPONSE TRACKING: Z2853 Z4340

[PRD] DATABASE RECORD: 211025 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/15/02
INITIAL DATE: 05/27/88
ITEM NUMBER: K16KX DATE LAST CHANGED: 03/20/07
SECTION: 2700 TIME LAST CHANGED: 08:01:42

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 211025
ITEM NUMBER: K16KX

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L KSC/USK-426
TEST CODE: DFRC EAFB S0026.200 S0026.300
S5022.200 STSALL

ASSOCIATED DOC: 20026S 25022S
TRACKING NO. COMREV05 DB98 KING2001 L4314 R109-31
R111-4 R26165 R2651
PRIORITY: MANDATORY
RATIONALE: OPERATION AND MAINTENANCE OF OIS INSTRUMENTS AT EAFB.

1. DESCRIPTION: PROVIDE SUSTAINING ENGINEERING OPERATION AND DEPOT LEVEL MAINTENANCE OF END INSTRUMENTS IN THE FOLLOWING LOCATIONS - DFRC.

LOCATION	DESIGNATION	ROP	25 KEY	20 KEY	10 KEY	TOTAL
BLDG 4833	ORBITER HANGAR	1 EA				1
ROOM 100	SHUTTLE RECOVERY OPS (USA)	1 EA				1
ROOM 101	SHUTTLE RECOVERY TECH ROOM	1 EA				1
ROOM 103	COMM SHOP			1 EA		1
ROOM 103B	COMM DICES ROOM	1 EA		2 EA		3
ROOM 103C	COMM POWER SUPPLY ROOM				1 EA	1
ROOM 104	GOCA (CONTROL RM)			10 EA		10
BLDG 4860	MDD (MATE DE-MATE) GROUND LEVEL	7 EA				7
	20' LEVEL	2 EA				2
	40' LEVEL	4 EA				4
	60' LEVEL	1 EA				1
	80' LEVEL	2 EA				2
	(N) ORBITER ACCESS PLATFORM	3 EA				3
	(S) ORB ACCESS PLATFORM	3 EA				3

CONTINUED

[PRD] DATABASE RECORD: 211025
ITEM NUMBER: K16KX

	WHITE ROOM	3 EA			3
	TOOL CRIB	1 EA			1
	TAIL STAND (1201 STAND)	4 EA			2
	TAIR STATION	1 EA			1
BLDG. 4845	SHUTTLE OFFICE		2 EA		2
BLDG. 4863	LOCKHEED MARTIN OFFICE		1 EA		1
BLDG. 4864 ROOM 101	SHUTTLE ENGINEER LIFE SUPPORT (SGS)		1 EA		1
LSS-2	SCAPE TRAILER (SGS)	1 EA			1
BLDG. 4845				1 EA	1
					54

PRIME: KSC/PH-L/DEAN SCHAAF/321 861-9311

TECHNICAL CONTACT: KSC/USK-426/MIKE KUTA/321 861-3980
DFRC/GEORGE GRIMSHAW/661 276-3425

COMM CONTACT: KSC/IT-D2-A/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/16/02

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/15/02
RESPONSE TRACKING: Z2656 Z4340

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD:	227709	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	LLS	APPROVAL DATE:	02/08/05
		INITIAL DATE:	04/30/91
ITEM NUMBER:	H17GK	DATE LAST CHANGED:	03/01/07
SECTION:	2700	TIME LAST CHANGED:	09:41:24

REQUESTER:	MSFC			
SUBREQUESTER:	M2803	M2805	MS038	MS095
	MS205	MS251	STSR28	
TEST CODE:	KSC	MSFC	S0007.100	S0008.101
	S0008.102	S0017.100	S0024.101	S5009.101
	S61E11	STSALL	SUPSIM	

ASSOCIATED DOC:	20007S	20008S	20009S	20014S
	20017S	20024S	20044S	25009S
TRACKING NO.	COMREV05	GSFC-010	KING2001	L02-7-3	L05-1-4
	L2718	L2731	L2743	L2754	L3840
	L4001	L4007	L4011	L4417	L4615
	L5329	R0501-3	R0502-2	R109-31	R112-5
	R26157	R2627	R2631	R2634	R2653
	R2669	R2851	R2858	R3117	R7105
	R8004				
PRIORITY:	REQUIRED				
RATIONALE:	REQUIRED FOR EVALUATION OF DATA BETWEEN THE HOSC AND THE KSC LCC.				

1. DESCRIPTION: MSFC/KSC VOICE COMMUNICATIONS

MSFC REQUIRES THE FOLLOWING VOICE CIRCUITS BETWEEN THE HOSC AND KSC FOR PRE-LAUNCH TESTING & LAUNCH COUNTDOWN SUPPORT OF THE ET, SRB, MPS, SRM AND SSME ELEMENTS. THE FOLLOWING IS A LIST OF CIRCUITS THAT WILL BE REQUIRED:

A. 5 - OIS LOOPS: ESA OIS-245, MSFC COORD OIS-263, PROJ ENGR-1 OIS-161, CRYO COORD OIS-261 AND PROJ ENGR-2 OIS-262.
B. 5 - CONFERENCE CIRCUITS: ET, SRB, SSME, MPS AND SRM.
C. 8 - OIS CHANNEL COMM SWITCHABLE CIRCUITS (OIS 1-8) TO BE SWITCHED FROM THE CDSC. SEE SECT 2750, ITEM H3.2K, DBR 286498 FOR A LIST OF CIRCUITS TO BE SWITCHED.
D. 1 - KSC-MSFC COMM COORD
E. 1 - SFOC MANAGEMENT COORD
F. 1 - SAFE COORD (SRM&QA COORD)

CONTINUED

[PRD] DATABASE RECORD: 227709
ITEM NUMBER: H17GK

G. 1 - SYS ENG COORD OIS-6007
H. 1 - SPACE SHUTTLE PROGRAM OFFICE (SSPO)

DATA COMMUNICATIONS
SDC - SHUTTLE DATA CENTER RECALL VIA INTERNET
OD - OD DATA (64/96/128/192 KBS) VIA KMTS
SSME - THREE 60 KBS DATA CIRCUITS (EIU-1,EIU-2,EIU-3) VIA KMTS.
SHUTTLE DATA STREAM (SDS)

POINT OF CONTACT: SCOTT SCHUTZENHOFER/MP71/256 544-8496
COORDINATOR: MSFC/PHILIP CAUTHEN/256 544-4204

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/07/05

RESPONSE TRACKING:	Z0504-3	Z0505-3	Z112-7	Z2754	Z2760
	Z2767	Z28120	Z2844	Z3115	Z3861
	Z4003	Z4011	Z4015	Z4451	Z4622
	Z5323	Z7004	Z8008		

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 I-IT-D2-A KICS-105
KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/21/05

RESPONSE TRACKING:	Z0502-2	Z112-5	Z2748	Z2844	Z2880
	Z2907	Z3115	Z3418	Z3861	Z4003
	Z4011	Z4015	Z4451	Z4704	Z4729
	Z5323	Z5525	Z5735	Z6101	Z6118
	Z6208	Z6514	Z6586	Z7007	Z8012

[PRD] DATABASE RECORD: 239835 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/14/89
INITIAL DATE: 06/14/89
ITEM NUMBER: K18G DATE LAST CHANGED: 11/16/06
SECTION: 2700 TIME LAST CHANGED: 07:13:20

REQUESTER: KSC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 239835
ITEM NUMBER: K18G

SUBREQUESTER: KSC/PH-L
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 DB98 KING2001 R109-31 R2855
PRIORITY: MANDATORY
RATIONALE: MANDATORY COMMUNICATIONS FOR LAUNCH.

1. DESCRIPTION: MIL/KSC COMMUNICATIONS

RF ASTRO COMM.

THE ASTROCOMM SYSTEM SHALL INTERFACE WITH MILA AND WITH THE OIS SYSTEM. OIS CHANNEL 211 SHALL BE USED FOR 2-WAY ORBITER UHF-VOICE, AND OIS CHANNELS 212 AND 213 SHALL BE USED FOR 2-WAY S-BAND VOICE (A/G 1 AND A/G 2).

NOTE: SUPPORT IS REQUIRED FROM MILA THROUGH LIFTOFF DURING LAUNCH.

REFERENCES: LLS DBR'S 235697 196195 237334 AND 204859

PRIME: KSC/PH-L/JEFF SPAULDING/321 861-9306
TECH CONTACT: KSC/GARY MORSE/321 867-3514
COMM CONTACT: KSC/IT-D2-A/MONIQUE McLAMB/321 867-8540

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/14/89
RESPONSE TRACKING: GSFCREV06 Z2848

[PRD] DATABASE RECORD: 192111 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/18/91
INITIAL DATE: 08/29/90
ITEM NUMBER: HY19K DATE LAST CHANGED: 09/19/06
SECTION: 2700 TIME LAST CHANGED: 12:28:54

REQUESTER: MSFC NASA HQ

CONTINUED

[PRD] DATABASE RECORD: 192111
ITEM NUMBER: HY19K

SUBREQUESTER: MK-SIO MS018 MS083-1 OSR3/4
STSR29
TEST CODE: KSC LCC STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. COMREV05 KING2001 R109-31 R26160 R4106
R4429
PRIORITY: MANDATORY
RATIONALE: MISSION MANAGEMENT TEAM COMMUNICATION.

1. DESCRIPTION: LCC COMMUNICATIONS REQUIREMENTS:
PROVIDE AN OIS-D UNIT AT EACH OF
THE MSFC POSITIONS IN THE OSR'S.

REFERENCE: LLS3030 ITEM HKTY1.1.1K DBR 024257

POC: RANDY SEGERT/MK/321 867-8250
PAT LAMPTON/SK/321 861-4004

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/18/91
RESPONSE TRACKING: Z2653 Z3216 Z4111 Z4429

[PRD] DATABASE RECORD: 252549 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/18/91
INITIAL DATE: 08/29/90
ITEM NUMBER: H20K DATE LAST CHANGED: 05/05/06
SECTION: 2700 TIME LAST CHANGED: 09:49:37

REQUESTER: MSFC
SUBREQUESTER: FR2 MS018 MS083-1 STSR29
TEST CODE: KSC LCC STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20044S
TRACKING NO. COMREV05 KING2001 R109-31 R26160 R4106
R4429

CONTINUED

[PRD] DATABASE RECORD: 252549
ITEM NUMBER: H20K

PRIORITY: REQUIRED
RATIONALE: MISSION MANAGEMENT TEAM COMMUNICATION.

1. DESCRIPTION: LCC COMMUNICATIONS REQUIREMENTS:
PROVIDE AN OIS-D UNIT AT EACH OF
THE MSFC ASSIGNED POSITIONS IN FR2.

REFERENCE: LLS3030 ITEM H46.1K DBR 024286

COORDINATOR: PAT LAMPTON/SK/321 861-4004

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/18/91
RESPONSE TRACKING: Z2653 Z3216 Z4111 Z4429

[PRD] DATABASE RECORD: 254137 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/03/91
INITIAL DATE: 01/31/89
ITEM NUMBER: H21K DATE LAST CHANGED: 09/19/06
SECTION: 2700 TIME LAST CHANGED: 12:30:29

REQUESTER: MSFC
SUBREQUESTER: MS076
TEST CODE: FR2 KSC STSALL STSR29
SUPSIM

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. COMREV05 KING2001 L2915 L4821 R109-31
R26160
PRIORITY: REQUIRED
RATIONALE: MISSION MANAGEMENT TEAM COMMUNICATION.

1. DESCRIPTION: LCC COMMUNICATIONS REQUIREMENTS:

PROVIDE MSFC TECHNICAL PERSONNEL ACCESS TO THREE LPS KEYBOARDS AT
THE ESA CONSOLE (CONSOLE 231) IN LCC FIRING ROOM 2 FOR CALLUP AND
DISPLAY OF GROUND AND/OR FLIGHT MEASUREMENTS AVAILABLE IN CDBFR. CRT

CONTINUED

[PRD] DATABASE RECORD: 254137
ITEM NUMBER: H21K

SLAVING AS FOLLOWS:

OSR3/4	195A21/695A21	SLAVED FROM	FR2 231A1
OSR3/4	195A32/695A32	SLAVED FROM	FR2 231A2
OSR3/4	195A33/695A33	SLAVED FROM	FR2 231A3
OSR3/4	195A34/695A34	SLAVED FROM	FR2 216A3

POC: PAT LAMPTON/SK/321 861-4004
RICHARD HARTUNG/USK-607/321 861-0588

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/05/91
RESPONSE TRACKING: Z2653 Z2963 Z4825

[PRD] DATABASE RECORD: 572552 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/18/03
INITIAL DATE: 06/18/03
ITEM NUMBER: G23GK DATE LAST CHANGED: 01/16/07
SECTION: 2700 TIME LAST CHANGED: 07:47:51

REQUESTER: GSFC
TEST CODE: STSALL
TRACKING NO. COMREV05 R03-06-6
PRIORITY: REQUIRED
RATIONALE: RETAIN OPERATIONAL PROFICIENCY FOR SHUTTLE MISSIONS.

1. DESCRIPTION: MILA SHUTTLE PROFICENCY SUPPORT

TO RETAIN OPERATIONAL PROFICIENCY FOR SPACE SHUTTLE MISSIONS, SCIENTIFIC MISSIONS (i.e. SMEX MISSIONS) SUPPORT WILL BE ADDED TO MILA MISSION SET. MILA WILL PROVIDE SUPPORT 5 DAYS A WEEK, 16 HOURS A DAY (NORMAL WORKING HOURS), FUTURE REQUIREMENTS COULD EXTEND 24/7. MILA WILL BE PROVIDED WITH ENGINEERING CHANGE (EC) INSTRUCTIONS AND HARDWARE TO CONNECT TO THE CLOSED IONET. BANDWIDTH REQUIREMENT SHOULD NOT EXCEED 1.5 MEG. NO ADDITIONAL DIGITAL DATA STORAGE RETRIEVAL WILL BE REQUIRED.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 572552
ITEM NUMBER: G23GK

TECH CONTACT: JAMES BANGERTER/GSFC/451 (301) 286-7306

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: I-MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/18/03
RESPONSE TRACKING: GSFCREV06 Z03-06-7

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/25/03
RESPONSE TRACKING: Z03-6-10

[PRD] DATABASE RECORD: 275880 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/09/91
INITIAL DATE: 10/28/88
ITEM NUMBER: Y25K DATE LAST CHANGED: 06/05/07
SECTION: 2700 TIME LAST CHANGED: 12:24:14

REQUESTER: NASA HQ
SUBREQUESTER: M OMR3/4
TEST CODE: KSC LCC STSALL
TRACKING NO. KING2001 R109-31 R2736 R4421
PRIORITY: REQUIRED
RATIONALE: MISSION MANAGEMENT TEAM COMMUNICATION.

1. DESCRIPTION: LCC COMMUNICATIONS REQUIREMENTS - OMR
PROVIDE AN OIS-D UNIT AT EACH
CONSOLE POSITION IN THE OMR.

REFERENCE: LLS3030 ITEM DHKTY1.1.2K DBR 024268

POC: RANDY SEGERT/MK/321 867-8250

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/09/91

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 275880
ITEM NUMBER: Y25K

RESPONSE TRACKING: Z2725 Z4422

[PRD] DATABASE RECORD: 297170 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/09/91
INITIAL DATE: 10/28/88
ITEM NUMBER: Y26K DATE LAST CHANGED: 06/05/07
SECTION: 2700 TIME LAST CHANGED: 12:24:31

REQUESTER: NASA HQ
SUBREQUESTER: M OSR3/4
TEST CODE: KSC LCC STSALL
TRACKING NO. KING2001 R109-31 R2736 R4421
PRIORITY: REQUIRED
RATIONALE: MISSION MANAGEMENT TEAM COMMUNICATION

1. DESCRIPTION: LCC COMMUNICATIONS REQUIREMENTS - OSR
PROVIDE AN OIS-D UNIT AT EACH
CONSOLE POSITION IN THE OSR.

REFERENCE: LLS3030 ITEM HKTY1.1.1K DBR 024257

POC: RANDY SEGERT/MK/321 867-8250

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/09/91
RESPONSE TRACKING: Z2725 Z4422

[PRD] DATABASE RECORD: 263688 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/09/91
INITIAL DATE: 10/28/88
ITEM NUMBER: T29K DATE LAST CHANGED: 09/19/06
SECTION: 2700 TIME LAST CHANGED: 12:31:48

REQUESTER: JSC
SUBREQUESTER: JSC/MV OSR3/4
TEST CODE: KSC LCC STSALL
TRACKING NO. COMREV05 KING2001 R109-31 R2736 R4421

CONTINUED

[PRD] DATABASE RECORD: 263688
ITEM NUMBER: T29K

1. DESCRIPTION: LCC COMMUNICATION REQUIREMENTS - OSR
PROVIDE AN OIS-D UNIT AT EACH JSC
CONSOLE POSITION IN THE OSR.

REFERENCE: LLS3030 ITEM HKTY1.1.1K DBR 024257

POINT OF CONTACT: RANDY SEGERT/MK/321 867-8250

TECHNICAL CONTACT: JON COWART/MV7/321 861-3040
JERRY SHEEHAN/721Z-K088/321 861-4540

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/09/91
RESPONSE TRACKING: Z2725 Z4422

[PRD] DATABASE RECORD: 266287 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/09/91
INITIAL DATE: 10/28/88
ITEM NUMBER: T30K DATE LAST CHANGED: 09/19/06
SECTION: 2700 TIME LAST CHANGED: 12:32:03

REQUESTER: JSC
SUBREQUESTER: FR2 JSC/MV
TEST CODE: KSC LCC STSALL
TRACKING NO. COMREV05 KING2001 R109-31 R2736 R4421

1. DESCRIPTION: LCC COMMUNICATION REQUIREMENTS - FR2

PROVIDE AN OIS-D UNIT AT EACH JSC POSITION IN FR2.

POINT OF CONTACT: JERRY SHEEHAN/721Z-K088/321 861-4540
COMM CONTACT: JSC/KEN JONES/284 483-7671

REFERENCE: LLS3030 ITEM T44.1K DBR 024313

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 266287
ITEM NUMBER: T30K

SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/09/91
RESPONSE TRACKING: Z2725 Z4422

[PRD] DATABASE RECORD: 268350 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/05/91
INITIAL DATE: 06/26/89
ITEM NUMBER: T31K DATE LAST CHANGED: 09/19/06
SECTION: 2700 TIME LAST CHANGED: 12:32:46

REQUESTER: JSC
SUBREQUESTER: FR2 JSC/MG KSC/MK-SIO OSR3/4
TEST CODE: KSC LCC STSALL
TRACKING NO. COMREV05 KING2001 L104-3 L2814 L3936
L906-3 R109-31 R2849

1. DESCRIPTION: LCC COMMUNICATION REQUIREMENTS:

PROVIDE JSC TECHNICAL PERSONNEL ACCESS TO TWO KEYBOARDS IN FR2, LPS CONSOLE (232A1) FOR CALLUP AND DISPLAY OF GROUND AND/OR FLIGHT MEASUREMENTS AVAILABLE IN THE CDS BUFFER.

PROVIDE ESA ROLLAROUND MONITORS (#195A39/695A39) FOR THE JSC ORBITER PROJECT OFFICE PERSONNEL IN THE OSR SLAVED TO THE JSC ASSIGNED KEYBOARD IN THE FR2, LPS CONSOLE.

TECHNICAL CONTACT: RICHARD HARTUNG/USK-607/321 861-0588

JERRY SHEEHAN/721Z-K088/321 861-4540
JON COWART/MV7/321 861-3040

COMM CONTACTS: JSC/KEN JONES/281 483-7671
KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: USK-607

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/07/91

CONTINUED

[PRD] DATABASE RECORD: 268350
ITEM NUMBER: T31K

RESPONSE TRACKING: Z2842 Z2886 Z4008

[PRD] DATABASE RECORD: 306059 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/23/92
INITIAL DATE: 06/13/89
ITEM NUMBER: T32K DATE LAST CHANGED: 09/19/06
SECTION: 2700 TIME LAST CHANGED: 12:33:32

REQUESTER: JSC
SUBREQUESTER: ESA FR2 JSC/MA OSR3/4
TEST CODE: KSC LCC STSALL
TRACKING NO. COMREV05 L4934 R109-31 R2849 R4421
PRIORITY: REQUIRED
RATIONALE: MISSION MANAGEMENT TEAM COMMUNICATION

1. DESCRIPTION: LCC COMMUNICATION REQUIREMENTS:

PROVIDE ADMINISTRATIVE TELEPHONES, AS INSTALLED, AT THE JSC POSITIONS IN THE OSR'S, OMR'S, FR2, DRR COF 2R21.

POINT OF CONTACT: RANDY SEGERT/MK/321 867-8250

TECHNICAL CONTACT: JERRY SHEEHAN/721Z-K088/321 861-4540
JON COWART/MV7/321 861-3040

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/23/92
RESPONSE TRACKING: Z2842 Z4422 Z4936

[PRD] DATABASE RECORD: 308216 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/05/91
INITIAL DATE: 10/03/88
ITEM NUMBER: T33K DATE LAST CHANGED: 09/19/06
SECTION: 2700 TIME LAST CHANGED: 12:34:01

REQUESTER: JSC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 308216
ITEM NUMBER: T33K

SUBREQUESTER: JSC/CA4 OSR3/4
TEST CODE: KSC LCC STSALL
TRACKING NO. COMREV05 KING2001 L03-1-1 L3936 R109-31
PRIORITY: REQUIRED
RATIONALE: MISSION MANAGEMENT TEAM COMMUNICATION.

1. DESCRIPTION: LCC COMMUNICATION REQUIREMENTS:
PROVIDE OVERHEAD OTV MONITORS FOR COMMERCIAL AND GROUND OTV VIEWING IN THE OSR. CAPABILITY TO VIEW LPS DATA SLAVED TO THE LAUNCH DIRECTOR'S ESA IS REQUIRED.

REFERENCE: LLS SECT 2800 ITEM TY57K DBR 016814 (FOR INPUT SIGNAL)

POINT OF CONTACT: RANDY SEGERT/MK/321 867-8250

TECHNICAL CONTACT: RICHARD HARTUNG/USK-607/321 861-0588

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/02/91
RESPONSE TRACKING: Z3023 Z4008

[PRD] DATABASE RECORD: 310671 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/21/95
INITIAL DATE: 06/13/89
ITEM NUMBER: T35K DATE LAST CHANGED: 09/19/06
SECTION: 2700 TIME LAST CHANGED: 12:34:44

REQUESTER: JSC
SUBREQUESTER: JSC/CA4 JSC/MG
TEST CODE: KSC LCC STSALL
TRACKING NO. KING2001 L03-1-1 L04-7-2 L105-12 L4317
L4328 L507-5 L906-3 R109-31 R2849
SHAW95
PRIORITY: REQUIRED
RATIONALE: FLIGHT CREW COMMUNICATIONS

CONTINUED

[PRD] DATABASE RECORD: 310671
ITEM NUMBER: T35K

1. DESCRIPTION: LCC VITT OFFICE COMMUNICATIONS

PROVIDE OIS UNITS AND SPEAKERS IN THE LCC VITT OFFICE ROOM 1R25, TO ALLOW THE JSC VEHICLE INTEGRATION ENGINEER AND ASTRONAUT QUARTERS (O&C) TO SIMULTANEOUSLY ACCESS LC 39 OIS FOR MISSIONS 3 & 4. ACCESS TO ALL LC-39 MISSIONS IS REQUIRED BY THE VITT OFFICE 1R25.

POINT OF CONTACT: ROBERT HANLEY/CA4/281-244-8654

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/01/95
RESPONSE TRACKING: Z2880 Z4345 Z4356 Z7407

[PRD] DATABASE RECORD: 317141 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/24/92
INITIAL DATE: 06/08/89
ITEM NUMBER: K36EK DATE LAST CHANGED: 05/31/07
SECTION: 2700 TIME LAST CHANGED: 07:31:50

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L KSC/USK-705 SOC
TEST CODE: CCAFS RETREV STSALL

ASSOCIATED DOC: 25407B MODE8
TRACKING NO. COMREV05 DB98 KING2001 L3710 L4601
R109-31 R2834
PRIORITY: MANDATORY
RATIONALE: MANDATORY COMMUNICATIONS WITH SRB RETRIEVAL SHIPS.

1. DESCRIPTION: COMMUNICATIONS - SRB RETRIEVAL:

THE SOLID ROCKET BOOSTER (SRB) RETRIEVAL OPERATIONS HF RADIO NET WILL INCLUDE TWO SEAGOING VESSELS EQUIPPED WITH 2 - 10 MHz, MULTI-CHANNEL RF COMMUNICATIONS.

THE SHORE STATION WILL USE THE ER HF TRANSMIT AND RECEIVE

CONTINUED

[PRD] DATABASE RECORD: 317141
ITEM NUMBER: K36EK

CAPABILITIES WITH REMOTE KEY, TRANSMIT AND RECEIVE CAPABILITIES
IN THE LCC AND AT CCAFS, HANGER AF, AND THE HSFS SUPPORT
OPERATIONS CENTER.

PRIME: KSC/PH-L/DON HAMMEL/321 861-9315
TECHNICAL CONTACT: KSC/USK-705/JOE CHAPUT/321 853-4032

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/24/92
RESPONSE TRACKING: Z2827 Z3723 Z4626

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/24/92
RESPONSE: INFO ONLY: WILCO LCC TO ER PORTION OF SRB RETRIEVAL NET.

RESPONSE TRACKING: Z2827 Z2996 Z3727 Z4627

[PRD] DATABASE RECORD: 338741 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/24/92
INITIAL DATE: 06/08/89
ITEM NUMBER: K37E DATE LAST CHANGED: 09/19/06
SECTION: 2700 TIME LAST CHANGED: 12:35:09

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L KSC/USK-705
TEST CODE: CCAFS RETREV STSALL

ASSOCIATED DOC: 25407B MODE8
TRACKING NO. COMREV05 DB98 KING2001 L4601 R109-31
R2834
PRIORITY: MANDATORY
RATIONALE: MANDATORY COMMUNICATIONS WITH SRB RETRIEVAL SHIPS.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 338741
ITEM NUMBER: K37E

1. DESCRIPTION: COMMUNICATIONS - SRB RETRIEVAL:
A LAND-BASED TRANSMITTER-RECEIVER FACILITY IS REQUIRED TO PROVIDE HF SSB SIMPLEX RADIO NET WITH SRB RETRIEVAL VESSELS AND SHORE TERMINATIONS AT LCC AND CCAFS.

PRIME: KSC/PH-L/DON HAMMEL/321 861-9315
TECHNICAL CONTACT: KSC/USK-705/JOE CHAPUT/853-4032

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/24/92
RESPONSE TRACKING: Z2827 Z4626

[PRD] DATABASE RECORD: 306613 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/08/05
INITIAL DATE: 05/03/90
ITEM NUMBER: G38X DATE LAST CHANGED: 03/20/07
SECTION: 2700 TIME LAST CHANGED: 08:02:16

REQUESTER: GSFC
SUBREQUESTER: GSFC/542
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. COMREV05 KING2001 L05-1-4 L3516 R0502-2
R109-31 R2850

1. DESCRIPTION: COMMUNICATIONS - DFRC: PROVIDE A VOICE QUALITY CIRCUIT BETWEEN THE AMC EARTH STATION AND DFRC BLDG. 4800 VIA THE FPS-16 SITE TO ACCOMMODATE THE GE VOICE MULTIPLEX EQUIPMENT.

TECH CONTACT: GSFC/AL DUANY/301 286-2721

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 306613
ITEM NUMBER: G38X

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/10/05
RESPONSE TRACKING: Z0502-1 Z2843 Z3523

[PRD] DATABASE RECORD: 340539 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/30/89
INITIAL DATE: 06/30/89
ITEM NUMBER: T39X DATE LAST CHANGED: 03/20/07
SECTION: 2700 TIME LAST CHANGED: 08:03:15

REQUESTER: JSC
SUBREQUESTER: JSC/AP3
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. COMREV05 KING2001 L906-8 R109-31 R2886
PRIORITY: REQUIRED
RATIONALE: PAO COORDINATION

1. DESCRIPTION: COMMUNICATIONS FACILITIES - DFRC

DFRC PROVIDE THE FOLLOWING DESK-TYPE TELEPHONE INSTRUMENTS ON THE "PAO COORD" INTERSITE LOOP; EACH INSTRUMENT SET WILL CONSIST OF A CRADLE TYPE TELEPHONE WITH SPEAKER, SANS DIAL:

1. DFRC PAO OFFICE TRAILER COMPLEX: FIVE INSTRUMENT SETS IN OFFICES.
2. DFRC NEWSCENTER TRAILER COMPLEX: ONE INSTRUMENT SET WITH PLUG-IN CONNECTION.
3. ISF VISITOR INFORMATION CENTER: ONE INSTRUMENT SET WITH PLUG-IN CONNECTION.
4. ISF AUDITORIUM NEAR MODERATOR'S PODIUM: ONE INSTRUMENT SET WITH PLUG-IN CONNECTION.

COORD. GEORGE GRIMSHAW/4845/OS/661 276-3425

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FI

CONTINUED

[PRD] DATABASE RECORD: 340539
ITEM NUMBER: T39X

RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/07/89
RESPONSE TRACKING: Z2869

[PRD] DATABASE RECORD: 344505 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/30/89
INITIAL DATE: 06/30/89
ITEM NUMBER: T40X DATE LAST CHANGED: 03/20/07
SECTION: 2700 TIME LAST CHANGED: 08:03:59

REQUESTER: JSC
SUBREQUESTER: JSC/AP3
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. COMREV05 KING2001 L906-8 R109-31 R2886
PRIORITY: REQUIRED
RATIONALE: PAO COORDINATION

1. DESCRIPTION: COMMUNICATIONS FACILITIES - DFRC
DFRC PROVIDE FIVE TELEPHONE-TYPE SPEAKERS IN OFFICES
WITHIN THE PAO OFFICE TRAILER COMPLEX; THESE SPEAKERS
ARE TO CONNECT TO THE "MISSION AUDIO/NASA SELECT"
COMMUNICATION LOOP.

COORD. GEORGE GRIMSHAW/4845/OS/661 276-3425

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FI
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/07/89
RESPONSE TRACKING: Z2869

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD:	357384	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	LLS	APPROVAL DATE:	09/05/01
		INITIAL DATE:	08/31/88
ITEM NUMBER:	T43ET	DATE LAST CHANGED:	03/08/06
SECTION:	2700	TIME LAST CHANGED:	07:14:49

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: INFO LANDNG STSALL SUPSIM

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 KING2001 L01-9-1 L02-1-1 L04-10-4
L105-12 L2604 L2632 L4317 L607-5
L609-1 L7911 L8108 R108-3
PRIORITY: MANDATORY
RATIONALE: FLIGHT CREW SAFETY

1. DESCRIPTION: MEDICAL COMMUNICATIONS CAPABILITY SUMMARY

JSC FCR SURGEON TO:
1. ORBITER
2. HOUSTON CONSULTANTS
3. KSC:
   A. CREW QUARTERS
   B. LCC BIOMED CONSOLE
   C. DOD SOC SURGEON
   D. SHANDS HOSPITAL
   E. PARRISH MEDICAL CENTER
   F. ORANGE REGIONAL MEDICAL CENTER (ORMC)
   G. FLORIDA HOSPITAL
   H. HOLMES REGIONAL HOSPITAL
   I. HALIFAX HOSPITAL
   J. UNIV. HOSPITAL - JAX

4. DFRC/EAFB:
   A. DRYDEN CONTROL ROOM
   B. DFRC DISPENSARY
   C. EAFB CLINIC
   D. LOMA LINDA HOSPITAL
   E. ANTELOPE VALLEY HOSPITAL

5. WHITE SANDS SPACE HARBOR:
   A. WSMR-KING 1
   B. HAFB CLINIC

CONTINUED

[PRD] DATABASE RECORD: 357384
ITEM NUMBER: T43ET

C. BEAUMONT HOSPITAL

6. DESIGNATED TAL SITES:
   A. MEDICAL TEAM LEADER VIA DOD SOC
   B. DESIGNATED IMCF/DMCF

RULES FOR USE OF MEDICAL COMM DURING SPECIFIC MISSION PHASES:

PRELAUNCH AND LAUNCH	LAUNCH ABORT	ON ORBITER
O COMMUNICATIONS CHECK	O ONLY COMM AS REQUIRED BY MEDICAL SITUATION	O MONITORING ONLY
O OPS READY STATUS	O MONITOR	O PRIVATE MEDICAL CONFERENCE AS SCHEDULED
O MONITOR		

COORDINATION: JSC/SD2/MICHAEL CHANDLER/281 483-2956

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB ER WSMR
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 09/05/01
RESPONSE TRACKING: Z108-4 Z8206

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES 281 483-7671

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 09/05/01
RESPONSE TRACKING: Z26172 Z4345 Z7915 Z8134

[PRD] DATABASE RECORD: 516092 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/15/02
INITIAL DATE: 08/06/91
ITEM NUMBER: T43.1K DATE LAST CHANGED: 12/07/05
SECTION: 2700 TIME LAST CHANGED: 10:20:41

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: KSC LANDNG STSALL

CONTINUED

[PRD] DATABASE RECORD: 516092
ITEM NUMBER: T43.1K

ASSOCIATED DOC: 20028S
TRACKING NO. COMREV05 KING2001 L01-9-1 L02-1-1 L04-10-4
L108-2 R108-3 R109-31 R4404

1. DESCRIPTION: KSC CREW TRANSPORT VEHICLE (CTV)
COMMUNICATIONS REQUIREMENTS

JSC CREW SURGEON WITH CTV TO:

1. FCR SURGEON (JSC) T/M THRU SURGEON LOOP
2. KSC EMSS COORD T/M THRU SURGEON LOOP
3. ORBITER M A/G-1, A/G-2
4. FLIGHT DIRECTOR M ONLY
5. CONVOY COMMANDER M ONLY

VHF RADIO MOBILE
UHF RADIO MOBILE
SCANNER WITH SPEAKER

REMARKS: IN ADDITION, THE CTV WILL BE EQUIPPED WITH
THE CONVOY NET, SECURITY/SAFETY NET,
AND A PUBLIC ADDRESS SYSTEM.

COORD: JSC/SD2/MICHAEL CHANDLER/ 281 483-2956
COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 02/15/02
RESPONSE: REF ITEMS 1, 2 AND 4 - NOWLCO - KSC DOES NOT HAVE THE
CAPABILITY. REF ITEMS 3 AND 5 - WILCO

RESPONSE TRACKING: Z4402

[PRD] DATABASE RECORD: 13966 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/30/92
INITIAL DATE: 05/17/88
ITEM NUMBER: T44.1EGKT DATE LAST CHANGED: 11/16/06

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 13966
ITEM NUMBER: T44.1EGKT

SECTION: 2700 TIME LAST CHANGED: 07:13:12

REQUESTER: JSC
TEST CODE: KSC STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S 20028S
TRACKING NO. COMREV05 KING2001 L203-23 L2604 L4916
R109-31 R2663 R2681
PRIORITY: MANDATORY
RATIONALE: FLIGHT CREW SAFETY.

1. DESCRIPTION: MEDICAL COMMUNICATIONS CAPABILITY SUMMARY:

REF	SSY	LOCATION	AVAILABLE CIRCUITS
T1K	(USK)	KSC FR3/4 CONSOLE AC4 TO:	
T2GK	(USK)	ORBITER	ASTRO COMM
T3K	(USK)	CREW QUARTERS	TELEPHONE
T4K	(USK)	PAD CLOSEOUT CREW-LAUNCH ONLY	OIS (212), NET 105
T5K	(USK)	CREW VAN	NETS 105/216/117
T6K	(USK)	MFF DISPENSARY	PT-PT,TELEPHONE,NET 117
T7K	(USK)	OHF	PT-PT,TELEPHONE,NET 117
T8K	(KICS)	CRASH/RESCUE	NETS 105/216/205
T9K	(KICS)	AMBULANCES	NET 117
T10K	(MD)	HELO'S (MEDEVAC) THRU DOD SOC	NET 117 & UHF 517
T11K	(MD)	SHANDS HOSPITAL	TELEPHONE
T12K	(MD)	PARRISH MEDICAL CTR.	TELEPHONE UHF 317
T13E		DOD SOC SURGEON	SURGEON LOOP, TELEPHONE,OIS 135
T14E		CCAS DISPENSARY	TELEPHONE, NET 117
T15T		FCR SURGEON (JSC)	SURGEON LOOP,TELEPHONE,OIS 163
T16K	(MD)	HELOS AT KSC/CCAS TO:	
T17K	(MD)	SHANDS HOSPITAL (WHEN WITHIN RANGE) - UHF 517	
T18K	(MD)	PARRISH MEDICAL CENTER (WHEN WITHIN RANGE)- UHF 517	
T19EGKT		RULES FOR USE OF MEDICAL COMM DURING SPECIFIC MISSION PHASES:	

PRELAUNCH AND LAUNCH	LAUNCH ABORT

CONTINUED

[PRD] DATABASE RECORD: 13966
ITEM NUMBER: T44.1EGKT

* COMMUNICATION CHECK	* COMM AS REQUIRED BY MEDICAL SITUATION
* OPS READY STATUS	
* MONITOR	* MONITOR

LANDING - AOA	LANDING AT KSC - (EOM & ALS)
* COMM ONLY AS MEDICAL NECESSITY	* COMM CHECKS WITH LANDING SITE MEDICAL NECESSITY
* MONITOR	* MONITOR

POINT OF CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

COORDINATION: DON DOERR/TA-C/321 867-4742

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/09/92
RESPONSE TRACKING: Z4922

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/09/92
RESPONSE TRACKING: Z2647 Z4922

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 I-TA-C KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/09/92
RESPONSE TRACKING: Z2632 Z4922

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/09/92

CONTINUED

[PRD] DATABASE RECORD: 13966
ITEM NUMBER: T44.1EGKT

RESPONSE TRACKING: Z4922

[PRD] DATABASE RECORD: 196789 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/15/02
INITIAL DATE: 03/09/89
ITEM NUMBER: T45TX DATE LAST CHANGED: 03/20/07
SECTION: 2700 TIME LAST CHANGED: 08:04:52

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: 017016 DFRC EAFB LANDNG
STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. COMREV05 KING2001 L01-9-1 L02-1-1 L04-10-4
L102-9 L2977 L3920 L507-6 L901-2
R108-3 R109-31 R2632 R2950 SHAW95
PRIORITY: MANDATORY
RATIONALE: FLIGHT CREW SAFETY.

1. DESCRIPTION: DFRC MEDICAL COMMUNICATIONS REQUIREMENTS

DFRC CONTROL ROOM TO:

1.	FCR SURGEON (JSC)	T/M THRU SURGEON LOOP
2.	ORBITER	M ONLY A/G-1, A/G-2
3.	MEDEVAC HELO'S	T/M RADIO
4.	AMBULANCES	T/M MED NET
5.	CREW TRANSPORT VEHICLE (CTV)	T/M RADIO
6.	DFRC DISPENSARY	TELEPHONE
7.	EAFB HOSPITAL	TELEPHONE
8.	ANTELOPE VALLEY HOSPITAL	TELEPHONE
9.	LOMA LINDA HOSPITAL	TELEPHONE
10.	UCLA HOSPITAL	TELEPHONE

FROM ANTELOPE VALLEY HOSPITAL TO MED. HELO T/M RADIO
FROM LOMA LINDA HOSPITAL TO MED. HELO T/M RADIO

JSC CREW SURGEON WITH CREW TRANSPORT VEHICLE (CTV):

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 196789
ITEM NUMBER: T45TX

1.	FCR SURGEON (JSC)	T/M THRU SURGEON LOOP
2.	DFRC EMSS COORD	T/M THRU SURGEON LOOP
3.	ORBITER	M A/G-1, A/G-2
4.	CONVOY COMMANDER	M ONLY
5.	FLIGHT DIRECTOR	M ONLY

TECHNICAL CONTACT: JSC/SD2/MICHAEL CHANDLER/281 483-2956
(D) DDMS-0/321-494-5116

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/20/02
RESPONSE TRACKING: Z108-4 Z109-15 Z26130 Z26172 Z29109
Z2937 Z3980 Z6919

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/667 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/15/02
RESPONSE TRACKING: Z108-10 Z29109 Z2972 Z3980 Z7503

[PRD] DATABASE RECORD: 17106 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/09/89
INITIAL DATE: 03/09/89
ITEM NUMBER: T45.1D DATE LAST CHANGED: 05/30/07
SECTION: 2700 TIME LAST CHANGED: 10:33:07

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: DFRC EAFB LANDNG STSALL

ASSOCIATED DOC: 20007S 20026S
TRACKING NO. COMREV05 KING2001 L01-9-1 L02-1-1 L04-10-4
L2970 L901-2 R108-3 R109-31 R2950

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 17106
ITEM NUMBER: T45.1D

PRIORITY: MANDATORY
RATIONALE: FLIGHT CREW SAFETY.

1. DESCRIPTION: DFRC MEDICAL COMMUNICATIONS REQUIREMENTS

MEDEVAC HELO'S TO HAVE UHF/VHF/FM RADIO TO COMMUNICATE WITH:

1. LOMA LINDA HOSPITAL T/M RADIO (WHEN WITHIN RANGE)
2. ANTELOPE VALLEY HOSPITAL T/M RADIO (WHEN WITHIN RANGE)

TECHNICAL CONTACT: (T) JSC/SD2/MICHAEL CHANDLER/281 483-2956
(D) DDMS-O/321 494-5116

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/09/89
RESPONSE TRACKING: Z29101

[PRD] DATABASE RECORD: 320483 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/05/01
INITIAL DATE: 01/30/89
ITEM NUMBER: T46E DATE LAST CHANGED: 12/18/06
SECTION: 2700 TIME LAST CHANGED: 11:29:07

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: S0027.001 STSALL WSSH

ASSOCIATED DOC: 20007S 20027S
TRACKING NO. COMREV05 KING2001 L01-9-1 L02-1-1 L04-10-4
L2632 L2927 L507-6 L901-3 L901-8
R108-3 R2951 SHAW95
PRIORITY: REQUIRED
RATIONALE: TERTIARY LANDING SITE. BECOMES MANDATORY FOR LANDING AT WSSH.

1. DESCRIPTION: WSSH MEDICAL COMMUNICATIONS REQUIREMENTS

CONTINUED

[PRD] DATABASE RECORD: 320483
ITEM NUMBER: T46E

RCC AND KING 1 TO:

1. FCR SURGEON (JSC)	T/M THRU SURGEON LOOP
2. ORBITER	M ONLY A/G1, A/G2
3. MEDEVAC HELO	T/M RADIO
4. AMBULANCES	T/M HAFB MED NET
5. ASTRONAUT TRANSPORT VEHICLE	T/M CONVOY COMMAND NET THRU CONVOY COMMANDER
6. HAFB HOSPITAL	TELEPHONE
7. WSSH CONTINGENCY COORDINATOR	T/M WSTF COORD NET (IF WSSHCC IS MONITORING THE LOOP).
8. WILLIAM BEAUMONT ARMY MEDICAL CENTER	TELEPHONE

MEDEVAC HELOS TO:

1. HAFB HOSPITAL	T/M HANDHELD RADIO (WHEN WITHIN RANGE)
2. TRIAGE PHYSICIANS	T/M HANDHELD RADIOS
3. BEAUMONT HOSPITAL	T/M RADIO (WHEN WITHIN RANGE)
4. EMS COORDINATOR	T/M RADIO

COORDINATION: JSC/SD24/MICHAEL CHANDLER/281 483-2956

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: WSMR
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/11/01
RESPONSE TRACKING: Z108-6 Z2764 Z2986 Z7312

[PRD] DATABASE RECORD: 333453 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/28/05
INITIAL DATE: 07/21/89
ITEM NUMBER: K48Z DATE LAST CHANGED: 04/03/07
SECTION: 2700 TIME LAST CHANGED: 12:31:36

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 333453
ITEM NUMBER: K48Z

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L KSC/USK-426
TEST CODE: S0027.001 STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. COMREV05 DB98 KING2001 L2826 L4625
L6524 R0501-1 R0501-1A R109-31 R26152
R2737 SHAW94
PRIORITY: REQUIRED
RATIONALE: TERTIARY LANDING SITE. BECOMES MANDATORY FOR LANDING AT WSSH.

1. DESCRIPTION: WSSH OIS-B, OPERATIONAL COMMUNICATIONS SYSTEM, VER B.

PROVIDE AN OIS WITH THE FOLLOWING: 24 FOUR WIRE CHANNELS EACH OF THE LONG LINE AMPLIFIERS ARE CAPABLE OF DRIVING A 600 OHM LINE RANGING FROM -15DB TO +35DB, ALL CHANNELS WILL BE DISTRIBUTED WITH 12 BRIDGE LEGS TO PROVIDE A TOTAL OF 288 FOUR WIRE COMMUNICATIONS LINE FOR SUPPORT OF CONSOLES, UHF TRUNKING BASE STATIONS, AND AIR/GROUND RADIOS. 24 VOICE RECOGNITION CIRCUITS WILL PROVIDE KEYING CONTROL OF THE TRUNKING BASE STATIONS. SPECIAL LOGIC SHALL PREVENT THE LATENCY THAT IS INHERENT IN RADIO SYSTEMS. EACH CHANNEL WILL HAVE A DEDICATED AMPLIFIER TO SUPPORT SIDETONE ON ALL CHANNELS WITHOUT DEGRADATION OF TURNAROUND OR IDLE ON THE LONGLINES. THE OIS IS LOCATED IN THE WSSH COMMUNICATIONS CENTER.

PRIME: KSC/PH-L/LOU GARCIA/321 861-6196

TECHNICAL CONTACT: KSC/USK-426/MIKE KUTA/321 861-3980
WSTF/ZIGGY ZAPEN/505 524-5556

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
SUBSUPPLIER: WSMR
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/28/05
RESPONSE TRACKING: Z26127 Z2726 Z2899 Z4634 Z6587

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 333453
ITEM NUMBER: K48Z

[PRD] DATABASE RECORD: 220438
DOCUMENT ID: LLS
ITEM NUMBER: K50X
SECTION: 2700

REQUIREMENT STATUS: APPROVED
APPROVAL DATE: 02/15/02
INITIAL DATE: 01/11/91
DATE LAST CHANGED: 03/20/07
TIME LAST CHANGED: 08:05:28

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L KSC/USK-426
TEST CODE: EAFB S0026.200 S0026.300 S5022.200
STSALL

ASSOCIATED DOC: 20026S 25022S
TRACKING NO. COMREV05 DB98 KING2001 L2740 L2830
L3210 L4314 L4708 R109-31 R26152
R26200 R3434 R3917
PRIORITY: MANDATORY
RATIONALE: TELLS KSC WHICH CIRCUITS TO PUT ON THE SYSTEM.

1. DESCRIPTION: DFRC SHUTTLE PROCESSING AREA (SPA)
OIS-Q SYSTEM CHANNELIZATION MATRIX

TITLE	OWNER	CHANNEL
LRD	KSC	(X135)
OTC	KSC	(X151)
COOLING VHF NET/ECLSS/ECS	KSC	
CONVOY COMMANDER VHF NET	KSC	
COMM MAINTENANCE	DFRC	
ORBITER SYSTEMS A (PV&D OR PURGE VHF NET)	KSC	
ORBITER SYSTEMS B (HYPERGOLICS OR MONITOR ONLY OF LFP1)	KSC	(X152)
ORBITER SYSTEMS C (PE-1)	KSC	(X161)
ORBITER SYSTEMS D (A/G-1 LONGLINE MONITOR ONLY)	KSC	(X215)
ORBITER UHF (MONITOR ONLY)	KSC	(X245)
EDWARDS COORDINATION (MONITOR ONLY OF LFP2)	DFRC	(M LFP2)
MISSION COMM COORD	JSC	

GENERAL NOTES:
(X---) CH. TIED TO LC-39 OIS CHANNEL VIA NISN UPON REQUEST.

CONTINUED

[PRD] DATABASE RECORD: 220438
ITEM NUMBER: K50X

(M---) CH. IS MONITOR ONLY TO LC-39 OIS CH VIA LONGLINES UPON REQ.

PRIME: KSC/PH-L/DEAN SCHAAF/321 861-9311
TECHNICAL CONTACT: KSC/USK-426/MIKE KUTA/321 861-3980

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/15/02
RESPONSE TRACKING: Z2695 Z28104 Z2936 Z3210 Z3423
Z3922 Z4340 Z4710

[PRD] DATABASE RECORD: 208463 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/08/05
INITIAL DATE: 03/26/91
ITEM NUMBER: K51GTX DATE LAST CHANGED: 03/20/07
SECTION: 2700 TIME LAST CHANGED: 08:06:14

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L
TEST CODE: DFRC EAFB S0026.200 S0026.300
S5022.200 STSALL

ASSOCIATED DOC: 20026S 25022S
TRACKING NO. COMREV05 DB98 KING2001 L02-7-1 L05-1-4
L2740 L3210 L3727 L4625 R0502-2
R109-31 R112-2 R26152 R2732 R3434
R9309
PRIORITY: MANDATORY
RATIONALE: TELLS KSC WHICH CIRCUITS TO PUT ON THE SYSTEM.

1. DESCRIPTION: KSC (CX39) TO DFRC AND SPECIFIED LOCAL DFRC COMM.
REQUIREMENTS.

REF - - - TIME SPAN - - -
1 PRELAUNCH THRU POST LANDING OPS (S0026)
-MSN COMM COORD (TECH SUPPORT) (KSC TO DFRC, VIA JSC)

CONTINUED

[PRD] DATABASE RECORD: 208463
ITEM NUMBER: K51GTX

2 PRELAUNCH THRU COMPLETE GRND OPS - (EST 10 DAYS)(S0026/S5022)
-LRD OIS 135 (KSC TO DFRC) (USED AS AN OPS B/U
CHANNEL AFTER ARRIVAL AT DSA. RECORD ONLY UPON REQUEST
AFTER ARRIVAL AT DSA)
-DFRC COOLING NET ACTIVE
-DFRC CONVOY CMDR NET ACTIVE
-DFRC PURGE NET ACTIVE
-OIS 161 (KSC/JSC TO DFRC)
-COOLING NET (LOCAL DFRC)

3 PRELAUNCH THRU ARRIVAL AT DSA (S0026)
-CONVOY CMDR NET (LOCAL DFRC)
-PURGE NET (LOCAL DFRC)
-A/G 1 L/L (KSC/JSC TO DFRC)
-ORB UHF L/L (KSC/JSC TO DFRC)

4 LAUNCH +45 MIN. THRU COMPLETE GRND. OPS - (S0026/S5022)
-COOLING NET (KSC/JSC TO DFRC VIA GSFC)

5 LAUNCH +45 MIN. THRU ARRIVAL AT DSA (S0026/S5022)
-PURGE NET (KSC/JSC TO DFRC)
-LFP1 (M) (JSC TO DFRC)
-LFP2 (M) (JSC TO DFRC)

6 CREW EXCHANGE THRU ARRIVAL AT DSA (S0026)

-ORB UHF (KSC/JSC TO DFRC) (MON)
-DFRC ORB UHF COMM NET ACTIVE

7 ARRIVAL AT DSA TO COMPLETE GROUND OPS (S5022)

-OIS 151 (KSC/JSC TO DFRC)
-OIS 245 (KSC/JSC TO DFRC)
-OIS 215 (KSC/JSC TO DFRC)
-OIS 152 (KSC/JSC TO DFRC)

PRIME: KSC/PH-L/DEAN SCHAAF/321 861-9311
TECHNICAL CONTACT: KSC/USK-426/MIKE KUTA/321 861-3980

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 208463
ITEM NUMBER: K51GTX

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/10/05
RESPONSE TRACKING: Z0505-3 Z112-7 Z26155 Z2732 Z2906
Z3210 Z3423 Z3729 Z4634 Z9311

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/08/05
RESPONSE TRACKING: Z112-2 Z26121 Z2758 Z3210 Z3423
Z3729 Z4634 Z9310

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/02/05
RESPONSE TRACKING: Z0502-1 Z113-7 Z26156 Z2695 Z2936
Z3210 Z3423 Z3729 Z4634 Z9311

[PRD] DATABASE RECORD: 194812 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/17/88
INITIAL DATE: 05/17/88
ITEM NUMBER: T52K DATE LAST CHANGED: 05/05/06
SECTION: 2700 TIME LAST CHANGED: 10:05:21

REQUESTER: JSC
SUBREQUESTER: JSC/CA4
TEST CODE: KSC STSALL SUPSIM

ASSOCIATED DOC: 20007S 20017S
TRACKING NO. COMREV05 KING2001 L03-1-1 R109-31 SHAW95
PRIORITY: REQUIRED
RATIONALE: FLIGHT CREW COMMUNICATIONS

1. DESCRIPTION: PROVIDE THREE (3) OIS UNITS WITH SPEAKERS IN THE FLIGHT CREW QUARTERS

CONTINUED

[PRD] DATABASE RECORD: 194812
ITEM NUMBER: T52K

LOCATED IN THE O&C BLDG. ROOMS 3267, 3277A AND 3277E. PROVIDE THE CAPABILITY TO PATCH THESE OIS UNITS INTO EITHER THE COMPLEX 39 OR THE INDUSTRIAL AREA OIS SYSTEM.

TECHNICAL CONTACT: JSC/CA4/ROBERT HANLEY/281-244-8654

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/08/88
RESPONSE TRACKING: Z26183

[PRD] DATABASE RECORD: 201044 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/15/02
INITIAL DATE: 05/17/88
ITEM NUMBER: KT56K DATE LAST CHANGED: 12/08/05
SECTION: 2700 TIME LAST CHANGED: 08:20:55

REQUESTER: KSC JSC
SUBREQUESTER: JSC/CA4 KSC/TA-F-A
TEST CODE: KSC SLF STSALL SUPSIM

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 DB98 KING2001 L2604 R109-31
R6522 SHAW94
PRIORITY: MANDATORY
RATIONALE: DIRECT COMMUNICATIONS LINK BETWEEN THE LACB AND THE TOWER AT THE SLF.

1. DESCRIPTION: POINT-TO-POINT: LACB TO SLF

PROVIDE A POINT-TO-POINT INTERCOM CAPABILITY FOR A DIRECT COMMUNICATION LINK BETWEEN THE LANDING AIDS CONTROL BUILDING (LACB) CONSOLE AND THE TOWER AT THE SHUTTLE LANDING FACILITY (SLF).

TECHNICAL CONTACT: RON FEILE/SGS-346/321 867-2100

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 201044
ITEM NUMBER: KT56K

ED TAFF/TA-F-F/321 867-2100.

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540
JSC/KEN JONES/281 483-7671

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/15/02
RESPONSE TRACKING: Z26183 Z6509

[PRD] DATABASE RECORD: 234477 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/19/89
INITIAL DATE: 06/19/89
ITEM NUMBER: K59X DATE LAST CHANGED: 03/20/07
SECTION: 2700 TIME LAST CHANGED: 08:06:56

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. COMREV05 DB98 KING2001 R109-31 R2863
PRIORITY: REQUIRED
RATIONALE: BACKUP EQUIPMENT

1. DESCRIPTION: SPECIAL COMMUNICATIONS EQUIPMENT - DFRC

PROVIDE:
1. FOUR NOISE SUPPRESSION HEADSETS FOR PORTABLE PURGE UNIT OPERATORS & DRIVERS.
2. FOUR NOISE SUPPRESSION HEADSETS FOR UNIVERSAL COOLING TRANSPORTER (UCT) OPERATORS & DRIVERS.
3. TWO NOISE SUPPRESSION HEADSETS FOR TOW VEHICLE OPERATORS.
4. TWO NOISE SUPPRESSION HEADSETS FOR CONTRACTOR TECH SUPERVISION.

PRIME: KSC/PH-L/DEAN SCHAAF/321 861-9311
TECHNICAL CONTACT: KSC/USK-426/MIKE KUTA/321 861-3980

CONTINUED

[PRD] DATABASE RECORD: 234477
ITEM NUMBER: K59X

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/19/89
RESPONSE TRACKING: Z2854

[PRD] DATABASE RECORD: 238132 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/14/89
INITIAL DATE: 07/14/89
ITEM NUMBER: K60KX DATE LAST CHANGED: 03/20/07
SECTION: 2700 TIME LAST CHANGED: 08:07:34

REQUESTER: KSC
SUBREQUESTER: KSC/IT-D2-A KSC/PH-L
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. COMREV05 DB98 KING2001 L2825 R109-31
R2863
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING SUPPORT OPERATIONS AT DFRC.

1. DESCRIPTION: SPECIAL COMMUNICATIONS EQUIPMENT - DFRC TOTAL
COMM EQUIPMENT

PROVIDE: INSTALLATION, OPERATIONS, FIELD MAINT & SERVICING OF
KSC PROVIDED COMM EQUIPMENT.

PRIME: KSC/PH-L/DEAN SCHAAF/321 861-9311

COMM CONTACT: KSC/IT-D2-A/WILLIAM MERRILL/321 867-2268
TECHNICAL CONTACT: KSC/USK-426/MIKE KUTA/321 861-3980
JAMES HUDSON/KICS-105/321 867-2289

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/14/89

CONTINUED

[PRD] DATABASE RECORD: 238132
ITEM NUMBER: K60KX

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/14/89
RESPONSE TRACKING: Z2854 Z2898

[PRD] DATABASE RECORD: 238533 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/19/89
INITIAL DATE: 06/19/89
ITEM NUMBER: K61X DATE LAST CHANGED: 03/20/07
SECTION: 2700 TIME LAST CHANGED: 08:08:10

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L
TEST CODE: DFRC EAFB S0026.100 S0026.200
S0026.300 S0026.500 STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. COMREV05 DB98 KING2001 R109-31 R2863
PRIORITY: MANDATORY
RATIONALE: BACKUP COMMUNICATIONS FOR MOBILE COMMAND POST.

1. DESCRIPTION: SPECIAL COMMUNICATIONS EQUIPMENT - DFRC

PROVIDE: MOBILE COMMAND POST (BACKUP COMM), 1 EACH.

PRIME: KSC/PH-L/DEAN SCHAAF/321 861-9311
TECHNICAL CONTACT: KSC/USK-426/MIKE KUTA/321 861-3980

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/19/89
RESPONSE TRACKING: Z2854

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 177343 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/21/95
INITIAL DATE: 05/17/88
ITEM NUMBER: T62K DATE LAST CHANGED: 05/05/06
SECTION: 2700 TIME LAST CHANGED: 10:09:45

REQUESTER: JSC
SUBREQUESTER: JSC/CA4
TEST CODE: KSC SLF STSALL SUPSIM

ASSOCIATED DOC: 20007S 20028S
TRACKING NO. COMREV05 KING2001 L2604 L507-5 R109-31
SHAW95
PRIORITY: REQUIRED
RATIONALE: MONITOR LANDING OPERATIONS.

1. DESCRIPTION: PROVIDE SPEAKERS IN THE SLF LACB FOR MONITOR OF
THE FLIGHT DIRECTOR AND AIR TO
GROUND-1 CIRCUITS.

TECH CONTACT: RON FEILE/SGS-346/321 867-2100
ED TAFF/TA-F-F/321 867-2100
JSC/CA4/ROBERT HANLEY/281 244-8654

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/28/95
RESPONSE TRACKING: Z26183 Z6936

[PRD] DATABASE RECORD: 340186 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/08/89
INITIAL DATE: 12/08/89
ITEM NUMBER: T63K DATE LAST CHANGED: 09/19/06
SECTION: 2700 TIME LAST CHANGED: 12:37:15

REQUESTER: JSC
SUBREQUESTER: JSC/CA4
TEST CODE: KSC STSALL SUPSIM

CONTINUED

[PRD] DATABASE RECORD: 340186
ITEM NUMBER: T63K

ASSOCIATED DOC: 20007S 20017S
TRACKING NO. KING2001 L2604 L3215 L507-5 R109-31
SHAW95

1. DESCRIPTION: TELECONFERENCE CAPABILITY

PROVIDE THE CREW QUARTERS AT KSC WITH A SHARE SYSTEM TELECONFERENCE CAPABILITY (MSFC TYPE) FOR PRE-LAUNCH (L-1 DAY) VEHICLE/CARGO SYSTEM BRIEFING.

KSC CONTACT: LAUREN LUNDE/CA4-A/321 867-2005

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A PH-M USK-350

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/08/89
RESPONSE TRACKING: Z3219

[PRD] DATABASE RECORD: 342218 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/19/02
INITIAL DATE: 02/21/90
ITEM NUMBER: T68.1X DATE LAST CHANGED: 03/20/07
SECTION: 2700 TIME LAST CHANGED: 08:09:04

REQUESTER: JSC
SUBREQUESTER: I-PH-B JSC/WS8
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20007S 20026S
TRACKING NO. COMREV05 KING2001 L002-1 L002-15 L02-7-1
L2733 L2825 L3631 L507-4 R109-31
R112-2 R3111 SHAW95

1. DESCRIPTION: AIRBORNE WEATHER UHF-DFRC

ESTABLISH UHF FREQ 279.0 TO BE THE DFRC AIRBORNE WEATHER FREQ. ALSO PROVIDE A TRANSMITTER/RECEIVER, LOCATED SUCH THAT CONTINUOUS WEATHER AIRCRAFT TWO-WAY COMMUNICATIONS CAN BE MAINTAINED WITH THE MCC (INTERFACE VIA LONGLINE) DURING END-OF-MISSION PHASES

CONTINUED

[PRD] DATABASE RECORD: 342218
ITEM NUMBER: T68.1X

INVOLVING DFRC.

REF: LLS SECT 2730 ITEM T3G DBR 333666 (FOR LONGLINE)

JSC MCC WILL HAVE THE CAPABILITY TO REMOTELY KEY THE DFRC AIRBORNE WEATHER TRANSMITTER VIA PUSH-TO-TALK HANDSET SIGNAL ORIGINATING FROM CAPCOM VOICE KEYSET.

JSC WILL BE PROVIDED CAPABILITY TO SELECT (VIA CAPCOM KEYSET SELECTION) BETWEEN DFRC AND KSC AIRBORNE WEATHER FREQUENCIES. IT IS REQUIRED THAT TWO AIRBORNE NETS (GEOGRAPHICALLY SEPARATED TRANSMITTERS) BE ACTIVE SIMULTANEOUSLY.

CAPCOM WILL MONITOR BOTH AIRBORNE WEATHER CHANNELS SIMULTANEOUSLY BUT WILL TALK ON ONLY ONE NET AT A TIME. WHEN CAPCOM TRANSMITS TO DFRC, NO KEYING OF THE KSC AIRBORNE SHOULD OCCUR, AND VICE VERSA. THERE IS NO REQM'T FOR CAPCOM TO TALK TO BOTH AIRCRAFT SIMULTANEOUSLY.

TECHNICAL CONTACTS: JSC/ZS8/WAYNE BAGGETT/281 483-2226
DFRC/GEORGE GRIMSHAW/661-276-3425

COMM CONTACT: JSC/KEN JONES/281 483-7671
KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/05/02
RESPONSE TRACKING: Z113-7 Z2753 Z2898 Z3111 Z6926

[PRD] DATABASE RECORD: 8872 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/22/96
INITIAL DATE: 06/14/89
ITEM NUMBER: K75D DATE LAST CHANGED: 05/30/07
SECTION: 2700 TIME LAST CHANGED: 10:33:00

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 8872
ITEM NUMBER: K75D

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L KSC/USK-426
TEST CODE: ELS STSALL
TRACKING NO. COMREV05 DB98 KING2001 L3846 L4428
L7702 R109-31 R2856 SCRUB06
PRIORITY: MANDATORY
RATIONALE: MANDATORY COMMUNICATIONS FROM ALS/ELS TO KSC.

1. DESCRIPTION: COMMUNICATIONS - ALL ELS TO KSC

PROVIDE A TWENTY FIVE CIRCUIT TELEPHONE COMMUNICATION SYSTEM FROM ALS/ ELS TO KSC TO SUPPORT ORBITER TURNAROUND. TO BE PROVIDED WITHIN THREE DAYS AFTER ORBITER LANDING.

NOTE 1: SEE NSTS 07700 VOL. X APPENDIX 10.17 FOR LANDING SITE LISTING AND LLS SECT. 3300, ITEM T1DEGKXZ, DBR 256702.

NOTE 2: POTENTIAL COST IMPACT IS 100K TO INITIATE COMM SYSTEM.

PRIME: KSC/PH-L/DENNY GAGEN/321-861-9301
(D) DDMS-O/JAY SUMMERS321 494-8581

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 09/03/96
RESPONSE: DOD WILL PROVIDE SUPPORT AS REQUESTED, HOWEVER,
THE POTENTIAL COST IMPACT IDENTIFIED IN NOTE 2 IS $300K, WORST CASE,
FOR A 120 DAY DEPLOYMENT.

RESPONSE TRACKING: Z2849 Z4503 Z5210 Z5221 Z7927

[PRD] DATABASE RECORD: 10315 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/06/05
INITIAL DATE: 10/26/88
ITEM NUMBER: T76DGK DATE LAST CHANGED: 05/30/07
SECTION: 2700 TIME LAST CHANGED: 10:33:01

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 10315
ITEM NUMBER: T76DGK

REQUESTER: JSC
SUBREQUESTER: JSC/DM4
TEST CODE: ALS ISTRES MORON STSALL
TAL ZARAGOZA

ASSOCIATED DOC: 20007S 20029S 20057S 20070S
TRACKING NO. COMREV05 KING2001 L114-3 L2733 L3846
L506-2 R109-31 R2622 R2635 SHAW95
PRIORITY: MANDATORY
RATIONALE: TAL SITE WEATHER EVALUATION

1. DESCRIPTION: TAL SITE DEDICATED COMMUNICATIONS REQUIREMENTS

PROVIDE DEDICATED REAL-TIME RECONNAISSANCE CAPABILITY FOR WEATHER PILOT REPORTS (PIREPS). THE DEDICATED AIRCRAFT TO BE UTILIZED AT TAL SITES (ZARAGOZA, MORON, ISTRES) MUST HAVE A COMMUNICATION LINK WHICH WILL ALLOW THE FLIGHT CREW REPRESENTATIVE ABOARD THE AIRCRAFT TO COMMUNICATE DIRECTLY WITH THE CAPCOM/LSO POSITION AT THE JSC MCC. THE COMMUNICATION LINK MUST BE COMPATIBLE WITH A REMOTE KEYING SYSTEM FOR A/G COMMUNICATIONS.

NOTE: 1. A SINGLE COMM LINK WILL BE PROVIDED FROM JSC TO THE WX AIRCRAFT AT THE TAL SITES AND VIA VHF 259.7 MHZ AND WILL BE SIMULTANEOUSLY ACTIVE TO ALL TAL WX AIRCRAFT.
2. THE REMOTE KEYING TO BE USED MUST CONFORM TO MOBILE INDUSTRY STANDARD TONE KEYING (MOTOROLA KEYING).

TECHNICAL CONTACT: GLEN LOCKWOOD/PH-L/321 861-9310
WILLIAM MERRILL/IT-D2/321 861-2268
(D) DDMS-O/321 494-5116

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON (ED) LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 09/08/05
RESPONSE: DOD WILL PROVIDE AIRCRAFT WITH CAPABILITY FOR UHF/VHF COMMUNICATIONS AT THE TAL SITE AS LONG AS RESOURCES/ASSETS ARE AVAILABLE.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 10315
ITEM NUMBER: T76DGK

RESPONSE TRACKING: Z0509-1 Z2753 Z6906

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/03/05

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/06/05
RESPONSE:

RESPONSE TRACKING: Z2753 Z6928

[PRD] DATABASE RECORD: 13802 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/06/05
INITIAL DATE: 09/20/91
ITEM NUMBER: KDT82DEK DATE LAST CHANGED: 05/30/07
SECTION: 2700 TIME LAST CHANGED: 10:33:03

REQUESTER:	KSC	HSFS	JSC	
SUBREQUESTER:	JSC/WS8	KSC/PH-L	KSC/USK-426	
TEST CODE:	ISTRES	KSC	MORON	STSALL
	SUPSIM	TAL	ZARAGOZA	

ASSOCIATED DOC:	20007S	20029S	20057S	20070S	
TRACKING NO.	COMREV05	KING2001	L02-7-1	L114-3	L2604
	L3846	L6522	L908-1	MK98	R109-31
	R112-2	R26178	R2656	R3224	R3438
	R4407	R9901			

PRIORITY: MANDATORY
RATIONALE: ALL THREE TAL CIRCUITS BACK UP EACH OTHER, ALSO BLACK PHONE BACKUP. USED BY DoD DURING CONTINGENCY OPS.

1. DESCRIPTION: VOICE/DATA CIRCUITS(L-4 DAYS)

THE COMMUNICATIONS CAPABILITIES LISTED BELOW ARE REQUIRED TO BE SUPPORTED SIMULTANEOUSLY AT THE THREE TAL SITES (ZARAGOZA, MORON,

CONTINUED

[PRD] DATABASE RECORD: 13802
ITEM NUMBER: KDT82DEK

ISTRES). CAPABILITIES ARE TO BE DEPLOYED AND OPERATIONAL FOUR DAYS PRIOR TO LAUNCH.

A. T1K A VOICE CIRCUIT TITLED "TAL LANDING FIELD" BETWEEN JSC AND THE LOCAL GROUND OPS MANAGER.

B. DT2DEK A VOICE CIRCUIT TITLED "TAL WEATHER OBSERVER" BETWEEN JSC, DOD SOC, CAPE WX & ON SITE GROUND WEATHER PERSONNEL.
NOTE: THIS CIRCUIT REQUIRES THE CAPABILITY TO HANDLE EITHER VOICE OR WEATHER DIGITAL DATA, SELECTABLE BY THE OBSERVER. WHEN USED FOR DATA, THE CIRCUIT WOULD FUNCTION AS A "DIAL UP" LINK FROM TAL TO JSC TELEPHONES THROUGH THE INMARSAT EARTH STATION IN SOUTHBURY, CT.

C. DT3DEK A VOICE CIRCUIT TITLED "TAL AIRCRAFT/ORB" BETWEEN JSC, DOD SOC (DDMS AIRCRAFT/ORB), CAPE WX AND LOCAL WEATHER AIRCRAFT, KEYING METHOD WILL BE "MOTOROLA TONE KEYING". NORMAL FREQUENCY USED WILL BE 259.7 MHZ, HOWEVER, THE ON SITE TRANSCEIVER MUST BE CAPABLE OF ACCESSING THE ENTIRE AIRCRAFT BANDWIDTH. ON SITE PERSONNEL, AS REQUIRED, MUST BE CAPABLE OF ACCESSING THIS UHF A/G LINK. (THIS CIRCUIT WILL REQUIRE AN EXTRA VOICE/KEYING CIRCUIT BETWEEN CCAFS & JSC). THE ER IS REQUIRED TO PROVIDE STANDARD MOTOROLA TONE KEYING ON THE CAPE.

D. KT4K A LOCAL COORDINATION CIRCUIT TITLED "GROUND OPS" BETWEEN FIXED COMMUNICATIONS UNITS WITH A T/R CAPABILITY TO LOCAL PORTABLE RADIOS SUPPLIED BY KSC.
NOTE: THIS COMM LINK MUST HAVE THE CAPABILITY OF BEING EXTENDED, POST LANDING, TO KSC USING CIRCUITRY NORMALLY ASSOCIATED WITH ITEM "B" ABOVE.

E. KT5K BACKUP TRANSCEIVERS FOR ITEM C & D ABOVE.

F. KT6K IN CASE OF POWER FAILURE, A BACKUP POWER SOURCE CAPABLE OF PROVIDING A MINIMUM OF 10 MINUTES OF UNINTERRUPTED POWER TO THE COMMUNICATION EQUIPMENT.

CONTINUED

[PRD] DATABASE RECORD: 13802
ITEM NUMBER: KDT82DEK

G. D8K AT EACH DOD SITE (ZARAGOZA, ISTRES AND MORON) PROVIDE 2 EACH HEADSETS COMPATABLE WITH THE IMARSAT COMMUNICATIONS PACKAGE. THESE ARE REQUIRED FOR THE ASCO AND THE DDMS LNO IN THE TOWER AT EACH SITE.

PRIME: KSC/PH-L/GLEN LOCKWOOD/321 861-9310
(D) DDMS-O/321 494-5116

NOTE: USE OF INMARSAT SATELLITE TERMINALS/SYSTEM IS ACCEPTABLE TO MEET THE CIRCUIT REQUIREMENTS OF A,B, & C. IT IS UNDERSTOOD THAT THIS SYSTEM WOULD PROVIDE THREE CIRCUITS FROM EACH OF THE THREE SITES (TOTAL OF 9) TO THE INMARSAT EARTH STATION IN SOUTHBURY, CT. THE INMARSAT EARTH STATION WOULD THEN BRIDGE THE CIRCUITS TO PROVIDE SUMMED FEEDS (ONE FOR TAL LANDING FIELD, ONE FOR TAL WX OBS. ONE FOR TAL AC/ORBITER) TO JSC VIA GSFC AND KSC.

POST LANDING TO RECOVERY OPS COMMUNICATIONS TRANSITION: POST LANDING AT A TAL/ELS/CLS SITE, KSC COMM WILL SHIP THE TRANSPORTABLE COMMUNICATION SYSTEM (TCS) AND ONE SET OF TAL/SATCOMM EQUIPMENT ON DAY 2 TO BE OPERATIONAL ON DAY 4. THE SATCOMM EQUIPMENT AT ALL NON-LANDING TAL SITES WILL BE DE-ACTIVATED. THE SATCOM EQUIPMENT WILL USE CONNECTION PARAMETERS BASED ON ONE OF THESE SETS. AT THE REQUEST OF THE LANDING SITE GOM, THE THREE SATCOMM CIRCUITS (NOTED IN A, C, AND D ABOVE) WILL TRANSITION FROM CIRCUITS A,C, AND D TO OIS-D CHANNELS 135, 151, AND 161, CONFERENCED AT SOUTHBURY.

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/08/05
RESPONSE TRACKING: Z0509-1 Z112-14 Z26120 Z2645 Z3225
Z3478 Z4405 Z6582

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

CONTINUED

[PRD] DATABASE RECORD: 13802
ITEM NUMBER: KDT82DEK

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/06/05
RESPONSE TRACKING: Z2686 Z3225 Z3484 Z4405 Z6582

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/06/05
RESPONSE TRACKING: Z112-5 Z26103 Z3216 Z3225 Z3314
Z3873 Z4405 Z6582

[PRD] DATABASE RECORD: 13801 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/06/05
INITIAL DATE: 05/17/88
ITEM NUMBER: KDT83DK DATE LAST CHANGED: 05/30/07
SECTION: 2700 TIME LAST CHANGED: 10:33:03

REQUESTER: KSC HSFS JSC
SUBREQUESTER: KSC/PH-L KSC/USK-426
TEST CODE: ISTRES KSC MORON STSALL
SUPSIM TAL ZARAGOZA

ASSOCIATED DOC: 20007S 20029S 20057S 20070S
TRACKING NO. COMREV05 DB98 KING2001 L04-5-1 L114-3
L2604 L3846 L5411 L5524 L6526
R0405-2 R109-31 R2656 R6304
PRIORITY: MANDATORY
RATIONALE: ALTERNATE COMMUNICATIONS SOURCES AVAILABLE. USED BY DoD DURING CONTINGENCY OPS.

1. DESCRIPTION: VOICE/DATA CIRCUITS

THE COMMUNICATIONS CAPABILITIES LISTED BELOW ARE REQUIRED TO BE SUPPORTED SIMULTANLOUSLY AT ALL THREE TAL SITES (ZARAGOZA, MORON, ISTRES).

REF	ITEM
DKT1K	USER COMM PANELS, ASSOCIATED WITH THE COMM CAPABILTIES IN LLS2700 ITEM DKT82DEK DBR 013802 AND CAPABLE OF ACCESSING UP

CONTINUED

[PRD] DATABASE RECORD: 13801
ITEM NUMBER: KDT83DK

TO FOUR CIRCUITS, ARE REQUIRED AT THE SITES.
EACH PANEL WILL REQUIRE THE FOLLOWING CAPABILITIES.

A. SIMULTANEOUS MONITOR OF UP TO FOUR CIRCUITS
APPEARING ON THE UNIT.

B. T/R CAPABILITY, SELECTABLE AT THE UNIT, ON ANY
ONE OF THE FOUR CHANNELS.

C. A HANDSET PERMANENTLY FIXED TO THE UNIT WITH
JACK ACCESS FOR A HEADSET.

DKT2DK QUANTITY/UTILIZATION/CHANNELIZATION OF PANELS IS AS FOLLOWS:

A. ZARAGOZA & MORON - TOTAL OF 5 PANELS PER SITE FOR USE BY:

1. NASA GOM (TOWER)
2. USA COMM TECH
3. TAL WX OBSERVER/TAL CAPCOM
4. DDMS (TOWER)
5. NASA/USA GROUND OPS MGRS

ALL PANELS REQUIRE ACCESS TO TAL LANDING FIELD (LFP-1),
TAL AIRCRAFT/ORBITER, TAL WEATHER OBSERVER, AND GROUND
OPS CIRCUITS. REF: LLS 2700, ITEM DKT82DEK, DBR 013802,
FOR DESCRIPTIONS OF CIRCUITS.

KT3K B. ISTRES - TOTAL OF FOUR (4) PANELS
FOR USE BY THE NASA GROUND OPS MANAGER (GOM), DOD WEATHER
OBSERVER, COMM TECH, AND DDMS REPRESENTATIVE. EACH PANEL
REQUIRES ACCESS TO TAL AC/ORB, TAL WX OBS, TAL LANDING
FIELD (LFP-1) AND GND OPS.

PRIME: KSC/PH-L/GLEN LOCKWOOD/321 861-9310
DDMS-O/321 494-5116

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/08/05

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 13801
ITEM NUMBER: KDT83DK

RESPONSE TRACKING: Z0406-5 Z0509-1 Z26120 Z2645 Z5414
Z5526

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 07/06/05
RESPONSE TRACKING: Z5414 Z5526 Z6305 Z6590

[PRD] DATABASE RECORD: 15258 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/25/88
INITIAL DATE: 04/25/88
ITEM NUMBER: K86E DATE LAST CHANGED: 06/05/07
SECTION: 2700 TIME LAST CHANGED: 12:25:39

REQUESTER: KSC
SUBREQUESTER: PAWSSH XA-E1
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 R109-31 R26156
PRIORITY: REQUIRED
RATIONALE: PAO REQUIREMENT NOT MANDATORY

1. DESCRIPTION: COMMUNICATIONS - PAO AT WSMR

IN THE EVENT OF A SHUTTLE LANDING AT WSMR THE FOLLOWING SUPPORT IS REQUIRED BY PAO NEWS OPERATIONS AT MAIN BASE, BLDG. 122:

A. ONE NASA SELECT AUDIO/VIDEO LINE.

NOTE: REQUIRED IN CONJUNCTION WITH THREE MONITORS AND PORTABLE DISH RECEIVER.

REFERENCE: LLS SECT. 2805, ITEM K35Z, DBR 015308

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: WSMR

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/18/88

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 15258
ITEM NUMBER: K86E

RESPONSE TRACKING: Z2686 Z2727

[PRD] DATABASE RECORD: 17707 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/08/05
INITIAL DATE: 02/08/05
ITEM NUMBER: T98K DATE LAST CHANGED: 09/19/06
SECTION: 2700 TIME LAST CHANGED: 12:40:36

REQUESTER: JSC
SUBREQUESTER: JSC/MV MER
TEST CODE: EAFB LANDNG LAUNCH PREFLT
STSALL

ASSOCIATED DOC: 20007S 20014S 20017S 20024S
20026S 20028S 20029S 20044S
TRACKING NO. COMREV05 KING2001 L05-1-1 L05-1-1A L105-1
L210-1 L2950 L4005 L411-4 L501-5
L5309 L601-1 L7204 R0501-2 R0502-1
R109-31 R6305 R7001

1. DESCRIPTION: NISN LAUNCH PROCESSING SYSTEM DATA LINK (NISN)
AND KSC DATA SUPPORT

KSC COMMUNICATIONS WILL UPGRADE THE 288 KB LPS PC GOAL DATA TO 772 KBPS ON THE NISN T-1 LINK FOR CONTINUOUS DATA FLOW TO JSC BLDG. 30S MER.

POC: MONIQUE MCLAMB/IT-D2-A/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/21/05
RESPONSE TRACKING: Z0502-2 Z2993 Z4040 Z5310 Z6306
Z7007 Z7604

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 18150 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/08/05
INITIAL DATE: 03/21/89
ITEM NUMBER: T100GKT DATE LAST CHANGED: 11/16/06
SECTION: 2700 TIME LAST CHANGED: 07:13:14

REQUESTER: JSC
SUBREQUESTER: JSC/B-NS
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20014S 20017S
TRACKING NO. A106-1 COMREV05 KING2001 L02-7-3 L05-1-4
L812-2 R0502-2 R109-31 R112-5 R3009
R9302

1. DESCRIPTION: BOEING COORD OIS-216

PROVIDE A DEDICATED VOICE COMMUNICATIONS LINK BETWEEN KSC LCC, JSC MISSION EVALUATION ROOM (MER) AND BOEING/HOUSTON BLDB. 91-14 (6TH FLOOR), TOWER II

REF: LLS2750 ITEM T204.2T DBR 018151

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/12/05
RESPONSE TRACKING: Z0505-3 Z112-7 Z3012 Z9303

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/21/05
RESPONSE TRACKING: Z0502-2 Z3012 Z9301

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/08/05

CONTINUED

[PRD] DATABASE RECORD: 18150
ITEM NUMBER: T100GKT

RESPONSE TRACKING: Z3012 Z9301

[PRD] DATABASE RECORD: 18505 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/19/04
INITIAL DATE: 05/17/89
ITEM NUMBER: K101EGT DATE LAST CHANGED: 01/16/07
SECTION: 2700 TIME LAST CHANGED: 07:55:19

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L KT-C (INFO)
TEST CODE: FULLTIME STSALL

ASSOCIATED DOC: 20007S 20044S
TRACKING NO. COMREV05 KING2001 L02-7-3 L04-8-2 MK98
R0408-1 R112-5 R112-7 R2801 R2816
SHAW95
PRIORITY: REQUIRED
RATIONALE: WEATHER CIRCUIT FROM JSC TO RANGE TO TALK WEATHER; BLACK PHONE BACKUP.

1. DESCRIPTION: PROVIDE VOICE CIRCUIT JSC/ER (SHUTTLE WX COORD.) (FULLTIME)

PROVIDE A VOICE CIRCUIT FROM THE ER RANGE OPERATION CONTROL CENTER (ROCC) TO JSC, BLDG 30M, RM 239, CONSOLES TAL/WINDS/CONUS, KEYSETS 7421/7423/7427, SPACEFLIGHT METEORLOGICAL GROUP (SMG).

PRIME: KSC/PH-L/TED MOSTELLER/321 861-9307
TECHNICAL CONTACT: KSC/KT-C/JOHN MADURA/321 867-0814
JSC/ZS8/KARL SILVERMAN/281 483-1047

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/19/04
RESPONSE TRACKING: Z2807

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 18505
ITEM NUMBER: K101EGT

RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/19/04
RESPONSE TRACKING: Z0505-3 Z112-7 Z2807 Z3039 Z3338

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
SUBSUPPLIER: JSC/ZS8
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/19/04
RESPONSE TRACKING: Z0408-2 Z112-9 Z2807 Z3048

[PRD] DATABASE RECORD: 19406 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/28/95
INITIAL DATE: 09/12/89
ITEM NUMBER: T102KT DATE LAST CHANGED: 12/09/05
SECTION: 2700 TIME LAST CHANGED: 10:47:49

REQUESTER: JSC
TEST CODE: STSALL

ASSOCIATED DOC: 20017S
TRACKING NO. COMREV05 KING2001 L506-2 L909-2 R109-31
R3457 SHAW95

1. DESCRIPTION: JOINT INTEGRATED SIMULATION (TCDT)

KSC IS REQUIRED TO SUPPORT INTEGRATED SIMULATIONS CONDUCTED DURING THE TCDT. VOICE CONFIGURATION SHALL BE AS DOCUMENTED IN THE OR/OD 20017S PRD/OR AND THE APPLICABLE PAYLOAD OR/OD(S).

JSC WILL PROVIDE SIMULATION INFO UPON REQUEST TO THE KSC SHUTTLE AND CARGO REP'S SUPPORTING THE JOINT INTEGRATION SIMULATION WORKING GROUP (JISWG) MEETING AT JSC. UNIQUE VOICE CIRCUITS AND KSC CONSOLE POSITIONS WILL BE AS DETERMINED BY THE JISWG AND DOCUMENTED IN THE APPLICABLE PRD/OR.

TECH CONTACT: JSC/DO411/USA/BOB GRILLI/281 244-0258

CONTINUED

[PRD] DATABASE RECORD: 19406
ITEM NUMBER: T102KT

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/18/95
RESPONSE TRACKING: Z3463 Z6928

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/28/95
RESPONSE TRACKING: Z3440 Z7013

[PRD] DATABASE RECORD: 20114 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/02/06
INITIAL DATE: 11/22/89
ITEM NUMBER: Y104GK DATE LAST CHANGED: 04/26/07
SECTION: 2700 TIME LAST CHANGED: 08:48:03

REQUESTER: NASA HQ
SUBREQUESTER: NASA HQ
TEST CODE: ISTRES MORON STSALL TAL
ZARAGOZA

ASSOCIATED DOC: 20029S 20057S 20070S
TRACKING NO. KING2001 L114-3 L3332

1. DESCRIPTION: TAL CONTINGENCY LANDING TELECONFERENCE

RESPONSIBLE AGENCY: GSFC

SHOULD THE ORBITER LAND AT A TAL SITE, A REQUIREMENT EXISTS TO ESTABLISH A 4-WIRE TELECON FROM A SINGLE LOCATION AT THE TAL SITE TO GSFC. GSFC VOICE CONTROL WILL THEN CONFERENCE THE TAL SITE CIRCUIT (UTILIZING THE TAL LANDING CIRCUIT PROVIDED) TO POSITIONS AT HQ, JSC, MSFC, AND KSC.

NOTE: MSFC DOES NOT HAVE THE TELECOFERENCING SWITCHBOARD CAPABILITY VIA THE KRMTS SYTEM. TO SUPPORT THIS REQUIREMENT GSFC

CONTINUED

[PRD] DATABASE RECORD: 20114
ITEM NUMBER: Y104GK

VOICE CONTROL HAS AGREED TO ESTABLISH THIS SUPPORT.

TECHNICAL CONTACT: ANTHONY WILLIAMS/301 805-3459

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/02/06

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/26/07
RESPONSE TRACKING: Z3346

[PRD] DATABASE RECORD: 20747 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/14/99
INITIAL DATE: 10/23/90
ITEM NUMBER: T108EGT DATE LAST CHANGED: 01/16/07
SECTION: 2700 TIME LAST CHANGED: 08:01:30

REQUESTER: JSC
SUBREQUESTER: JSC/MS4
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20017S

TRACKING NO.	COMREV05	KING2001	L001-10	L003-1	L003-9
	L02-7-3	L02-7-7	L05-1-4	L3805	L3851
	R0502-2	R109-31	R112-5	R112-9	R3119
	R3509	R4102	R9304		

1. DESCRIPTION: DOLILU DATA TRANSFER SYSTEM

GSFC TO PROVIDE TWO DIVERSELY ROUTED 2.4 KB/S COMMUNICATIONS LINES BETWEEN THE JSC MCC, AND CCAFS FOR THE DAY OF LAUNCH I-LOAD UPDATE (DOLILU) DATA TRANSFER SYSTEM.

NOTE 1: JSC MSOC PROVIDED MODEMS FOR JSC.

CONTINUED

[PRD] DATABASE RECORD: 20747
ITEM NUMBER: T108EGT

NOTE 2: ER PURCHASED MODEMS FOR ER WITH JSC/SSPO PROVIDING THE FUNDING.

REFERENCE: SECT 2734 ITEM T26EGT DBR 020748

TECH CONTACT: JSC/DV/KEN JONES/281 483-7671
GSFC/CODE 731/SEATON NORMAN/301 286-8676
ER/MIKE GAWEL/321 853-8118

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/14/99
RESPONSE TRACKING: Z3118 Z3546 Z3817 Z3841 Z3867
Z4103 Z4120 Z9304

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/14/99
RESPONSE TRACKING: GSFCREV06 Z112-7 Z3153 Z3504 Z3817
Z3867 Z9304

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/14/99
RESPONSE TRACKING: Z3118 Z3504 Z3817 Z3867 Z4101
Z9304

[PRD] DATABASE RECORD: 21102 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/30/90
INITIAL DATE: 03/30/90
ITEM NUMBER: T111K DATE LAST CHANGED: 12/09/05
SECTION: 2700 TIME LAST CHANGED: 10:50:23

REQUESTER: JSC
TEST CODE: STSALL
TRACKING NO. COMREV05 KING2001 L3119 L3130 L910-8

CONTINUED

[PRD] DATABASE RECORD: 21102
ITEM NUMBER: T111K

R109-31

1. DESCRIPTION: COMMUNICATIONS - SPF/KSC

A TYPE 3002 FULL DUPLEX 9.6 KB/S VOICE DATA CIRCUIT FOR DEVELOPMENT OF ORBITER ONBOARD SOFTWARE IS REQUIRED BETWEEN JSC, SPF AND KSC.

COMM CONTACT: JSC/KEN JONES/281 483-7671
KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/30/90
RESPONSE TRACKING: Z3141 Z3159

[PRD] DATABASE RECORD: 21097 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/28/95
INITIAL DATE: 03/20/90
ITEM NUMBER: T113EG DATE LAST CHANGED: 01/16/07
SECTION: 2700 TIME LAST CHANGED: 08:02:50

REQUESTER: JSC
TEST CODE: STSALL
TRACKING NO. COMREV05 KING2001 L3119 L506-2 L910-8
R109-31 SHAW95

1. DESCRIPTION: COMMUNICATIONS - R/S NETWORK TRAINING

JSC REQUIRES THE FOLLOWING PREFLIGHT COMMUNICATIONS INTERFACES IN SUPPORT OF RANGE SAFETY TRAINING VIA SIMULATED TELEMETRY/TRACKING DATA FLOW EXERCISES ONLY UPON REQUEST. RANGE SAFETY DATA WILL BE PROVIDED TO THE ER FROM JSC SIMULATOR VIA MIL. UPON RECEIPT OF THIS SIMULATED DATA OUTPUT, THE ER/CCC WILL PROCESS/RECORD THE DATA FOR JSC/RANGE SAFETY DATA SIMULATIONS. THE DATA RECORDED BY THE ER/CCC CAN THEN BE USED BY THE FCO FOR SUBSEQUENT TRAINING OF THE R/S NETWORK. THE FOLLOWING IS A LIST OF THE CIRCUITS AND CIRCUIT USAGE REQUIRED FOR THIS EXERCISE:

CONTINUED

[PRD] DATABASE RECORD: 21097
ITEM NUMBER: T113EG

1. JSC WILL PROVIDE SIMULATED OD DATA TO AN MDM OUTPUT TO GSFC. GSFC WILL VIA THE CLOSED IONET CIRCUITRY TO ROUTE ONLY TELEMETRY BLOCKS TO MILA; MILA SERIALIZES THE DATA UPON RECEIPT AND INPUTS THE DATA TO THE DECOMMUTATOR OUTPUTTING 2.4 KB/S OF RANGE SAFETY DATA TO THE ER/CCC.

2. CONCURRENTLY, ONE OF TWO EXISTING 7.2 KB/S CIRCUITS, PATCHED BY THE JSC/MCC, WILL BE UTILIZED FOR THE JSC SIMULATED LAUNCH AND LANDING TRACKING DATA TRANSMISSION TO THE ER/CCC.

COMM CONTACT: JSC/JAY LIPFORD/281 483-4455

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/25/95
RESPONSE TRACKING: Z3141 Z6929

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: I-MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/19/95
RESPONSE TRACKING: GSFCREV06 Z3141 Z6906

[PRD] DATABASE RECORD: 22347 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/18/03
INITIAL DATE: 10/04/90
ITEM NUMBER: TH114GHT DATE LAST CHANGED: 11/16/06
SECTION: 2700 TIME LAST CHANGED: 07:13:16

REQUESTER: JSC MSFC
SUBREQUESTER: JSC/MS4
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20017S

CONTINUED

[PRD] DATABASE RECORD: 22347
ITEM NUMBER: TH114GHT

TRACKING NO.	A106-1	COMREV05	KING2001	L005-10	L012-2
	L02-7-7	L03-8-3	L03-9-2	L04-2-1	L206-12
	L3827	L4602	L504-2	L504-2A	L6901
	L7003	R0402-1	R109-31	R112-9	R114-3
	R4002	R4003	R7111	R9802	RTF114-14
	RTF114-7				

PRIORITY: MANDATORY
RATIONALE: THIS LOOP IS NEEDED AT MSFC FOR LAUNCH COUNT DOWN SUPPORT, AS WELL AS FOR TESTING AND SIMULATION ACTIVITIES BETWEEN THE MSFC MIDDS GROUP AND THE JSC LOADS AND ANALYSIS GROUPS.

1. DESCRIPTION: LSEAT COORDINATION

PROVIDE R/T 2-WAY COMMUNICATIONS ON EXISTING VOICE CIRCUITS, BETWEEN THE JSC MER, B-NS/HOU AND THE MSFC HOSC FOR TERMINATION AND EXTENSION TO MSFC BLDG 4207.

NOTE: THIS VOICE COORDINATION IS REQUIRED FROM BEGINNING OF LAUNCH COUNTDOWN THROUGH LIFT-OFF + 1 HOUR TO BIMS AND IS REQUIRED FULL PERIOD TO MSFC.

COORDINATION: JSC/MV6/DAVID MOYER/281 483-0893
MSFC/EV13/RYAN DECKER/256 544-3068

COMM CONTACT: KEN JONES/281 483-7671

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/29/03

RESPONSE TRACKING:	Z114-12	Z3854	Z4001	Z4002	Z4604
	Z6918	Z7104	ZRTF114-6		

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: M. BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/18/03

CONTINUED

[PRD] DATABASE RECORD: 22347
ITEM NUMBER: TH114GHT

RESPONSE TRACKING: Z114-11 Z114-3 Z3587 Z3854 Z4119
Z4608 Z6935

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/18/03
RESPONSE TRACKING: Z114-11 Z3854 Z4001 Z4002 Z4602
Z7009 ZRTF114-3

[PRD] DATABASE RECORD: 24186 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/26/90
INITIAL DATE: 10/26/90
ITEM NUMBER: Y115GKT DATE LAST CHANGED: 01/16/07
SECTION: 2700 TIME LAST CHANGED: 08:05:09

REQUESTER: NASA HQ
SUBREQUESTER: HQ-MP JSC/DV14 KSC/MK-SIO
TEST CODE: STSALL

ASSOCIATED DOC: 20037S
TRACKING NO. KING2001 L02-7-7 L3854 R112-9

1. DESCRIPTION: COMM SUPPORT TO NASA HQ FOR SPECIAL TESTS

PROVIDE FOR EXTENSION OF VOICE COMM CIRCUITS FROM KSC OR JSC TO NASA HQ (ACTION CENTER), VIA GSFC VOICE CONTROL, FOR CERTAIN TESTS (i.e. ET TANKING TEST (S0037)).

OIS CHANNELS FOR THE TANKING TEST ARE AS FOLLOWS:

VOICE CKT		FROM	TO
OIS-161	(M)	KSC CDSC	NASA HQ (ACTION CENTER)
OIS-166	(M)	"	"
OIS-232	(M)	"	"
OIS-245	(M)	"	"
SSPO	(T)	JSC	"

NOTE 1: ANY CHANGES TO THE LISTED OIS CHANNELS SHOULD BE MADE AT LEAST

CONTINUED

[PRD] DATABASE RECORD: 24186
ITEM NUMBER: Y115GKT

THREE DAYS PRIOR TO THE BEGINNING OF THE APPLICABLE TEST.

NOTE 2: GSFC TO DESIGNATE THE LONGLINES TO BE USED PRIOR TO THE TEST.

CONTACT: GSFC/ANTHONY WILLIAMS/301 805-3459
KSC-COMM/IT-D2-A/MONIQUE MCLAMB/321 867-8540
GSFC/731/SEATON NORMAN/301 286-8676
JSC/DV/KEN JONES/281 483-7671

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/16/90
RESPONSE TRACKING: Z3599

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/08/90
RESPONSE TRACKING: Z3880

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/13/90

[PRD] DATABASE RECORD: 514579 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/27/03
INITIAL DATE: 04/18/91
ITEM NUMBER: T116K DATE LAST CHANGED: 06/06/06
SECTION: 2700 TIME LAST CHANGED: 11:05:23

REQUESTER: JSC
SUBREQUESTER: I-MIL JSC/DV
TEST CODE: STSALL TVPLAN

ASSOCIATED DOC: 20007S

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 514579
ITEM NUMBER: T116K

TRACKING NO. COMREV05 KING2001 L02-7-1 L03-8-5 L04-8-1
L105-2 L105-9 L302-3 L3964 L4030
L5517 L6201 R109-31 R112-2 RTF114-9
SHAW95

1. DESCRIPTION: AUDIO/TIMING FOR AMC-6 TRANSPONDER 5 AND
AMC-6 TRANSPONDER 17C

PROVIDE A FULL DUPLEX TIMING CIRCUIT (IRIG-B) FOR AMC-6 TRANSPONDER 5.

PROVIDE A FULL DUPLEX AUDIO CIRCUIT AND A FULL DUPLEX TIMING CIRCUIT (IRIG-B) FOR AMC-6 TRANSPONDER 17C.

DISTRIBUTION CRITERA FOR AUDIO/TIMING:
TX FROM LCC OR KSCNF OR MIL TO AMC-6 TRANSPONDER 17C, AS SCHEDULED.
RX AT KSCNF AND/OR LCC FROM AMC-6 TRANSPONDER 17C, AS SCHEDULED.

REF: LLS2766 T76K DBR 514580
REF: LLS2736 T16G DBR 013953

PRIME REQUESTER: JSC/DV/JOE AQUINO/281 483-4033

COMM CONTACT: KEN JONES/281 483-7671

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/24/03
RESPONSE TRACKING: Z0310-1 Z112-5 Z4033 Z5514 Z6201

[PRD] DATABASE RECORD: 514993 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/13/94
INITIAL DATE: 05/28/91
ITEM NUMBER: T118E DATE LAST CHANGED: 03/08/06
SECTION: 2700 TIME LAST CHANGED: 07:14:50

REQUESTER: JSC
SUBREQUESTER: JSC/DV
TEST CODE: STSALL

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 514993
ITEM NUMBER: T118E

ASSOCIATED DOC:	20007S	20026S	20027S		20028S
TRACKING NO.	KING2001	L02-7-7	L2733	L305-7	L4023
	L403-4	L4031	L407-1	L508-8	L5725
	L5913	L6801	L702-2	L804-2	MK98
	R109-31	R112-9	R26217	R26254	R26269
	R2733	R9102			

PRIORITY: REQUIRED
RATIONALE: PROVIDES BACKUP CAPABILITY TO GSFC/FDF TO GENERATE TRACKER ACQUISITION DATA FOR SHUTTLE SUPPORT.

1. DESCRIPTION: INTER-CENTER VECTOR TRANSMISSIONS

JSC REQUIRES THE CAPABILITY TO TRANSMIT ICV'S TO THE CCAFS/CCC VIA A 56 KBS CIRCUIT FOR:

1. PROVIDE BACKUP CAPABILITY TO THE GSFC/FDF DURING FDF DOWNTIMES.
2. PROVIDE LANDING SETS TO THE CCC ON KSC LANDINGS.
3. PROVIDE ICV VECTORS TO THE CCC FOR PRODUCING ACQUISITION DATA FOR SHUTTLE PAYLOADS.

REFERENCE: FLS2700 ITEM T29E DBR 015692
FLS2736 ITEM E13G DBR 009974

TECHNICAL CONTACT: JSC/DV/ROBERT FRAZIER/281 483-4444
COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/13/94

RESPONSE TRACKING:	Z26142	Z26166	Z2753	Z2807	Z4028
	Z4034	Z5732	Z6570	Z6803	

[PRD] DATABASE RECORD: 520567 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/29/92
INITIAL DATE: 07/29/92
ITEM NUMBER: T121G DATE LAST CHANGED: 01/16/07

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 520567
ITEM NUMBER: T121G

SECTION: 2700 TIME LAST CHANGED: 08:06:26

REQUESTER: JSC
SUBREQUESTER: JSC/MO3-USA
TEST CODE: STSALL TVPLAN
TRACKING NO. COMREV05 KING2001 L207-3 L4624 R109-31

1. DESCRIPTION: TELEVISION CIRCUITS

NISN SHALL PROVIDE TWO FULL-PERIOD TELEVISION TRANSPONDERS FOR SUPPORT OF SHUTTLE TELEVISION REQUIREMENTS.

ONE TRANSPONDER SHALL GENERALLY BE ASSIGNED TO SUPPORT SHUTTLE OPERATION REQUIREMENTS. THE OPERATIONAL TRANSPONDER SHALL ALSO BE CAPABLE OF PROCESSING 4.2 MHZ ANALOG DATA AND WIDEBAND DIGITAL DATA.

THE SECOND TRANSPONDER SHALL GENERALLY BE ASSIGNED TO SUPPORT THE PUBLIC RELEASE OF SHUTTLE TELEVISION INFORMATION. PRIORITIES AND CONFIGURATIONS OF THESE TRANSPONDERS FOR SHUTTLE SUPPORT SHALL BE DELEGATED BY THE AUTHORITY OF THE JSC FLIGHT DIRECTOR AS DELEGATED TO HOUSTON TV AND NISN FOR IMPLEMENTATION. SPECIFIC CONFIGURATIONS FOR SHUTTLE SUPPORT SHALL BE DOCUMENTED IN THE MISSION SPECIFIC TELEVISION PLAN.

TECHNICAL CONTACT: JSC/RAY BANKS/MO3-USA/281 280-6971
COMM CONTACT: JSC/KEN JONES/281 483-7671

REFERENCE: LLS2736 ITEM HT33G DBR 514040
FLS2700 ITEM T34G DBR 520565
FLT2736 ITEM HT26EG DBR 513735

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/29/92
RESPONSE TRACKING: Z4632

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 520722 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/06/05
INITIAL DATE: 08/12/92
ITEM NUMBER: TZ123GT DATE LAST CHANGED: 11/16/06
SECTION: 2700 TIME LAST CHANGED: 07:13:26

REQUESTER: JSC WSTF
SUBREQUESTER: JSC/MG
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. COMREV05 KING2001 L208-2 L506-2 R0501-1
R109-31 SHAW95

1. DESCRIPTION: MISSION CIRCUIT ASSIGNMENT PLAN FOR WSSH

FOR EACH MISSION, NISN IS REQUIRED TO SEND A MESSAGE (EITHER EMAIL OR FAX) DETAILING THE MISSION CIRCUITS TO BE EXTENDED TO WSSH, THE TIME THEY ARE TO BE EXTENDED, THE CIRCUIT ROUTING (AS APPROPRIATE), AND THE CIRCUIT NUMBER DESIGNATIONS FOR EACH CIRCUIT.

THE MESSAGE SHOULD BE SENT AT PLANNED LAUNCH MINUS 1 WEEK TO NISN DESIGNEES AS DESIRED, ROBERT MITCHELL (rmitchell@wstf.nasa.gov) and FURMAN SMITH (fsmith@wstf.nasa.gov) AT WSTF, LOU GARCIA (FAX 321 861-7648) AT KSC/CODE PH-L AND JOE AQUINO (FAX 281 483-5880) AT JSC/DV.

CHANGES TO THIS MESSAGE AFTER THE ORIGINAL SHOULD BE SENT BY FACSIMILE AS REQUIRED.

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/06/05
RESPONSE TRACKING: Z0501-1 Z4720 Z6906

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/06/05

CONTINUED

[PRD] DATABASE RECORD: 520722
ITEM NUMBER: TZ123GT

RESPONSE TRACKING: Z0501-1 Z4714 Z7013

[PRD] DATABASE RECORD: 522669
DOCUMENT ID: LLS
ITEM NUMBER: G124DEGHKT
SECTION: 2700

REQUIREMENT STATUS: APPROVED
APPROVAL DATE: 10/07/97
INITIAL DATE: 03/15/93
DATE LAST CHANGED: 05/30/07
TIME LAST CHANGED: 10:33:23

REQUESTER: GSFC
SUBREQUESTER: GSFCR1
TEST CODE: INFO STSALL
TRACKING NO. COMREV05 KING2001 L5540 L6713 L8108
R109-31 R8702

1. DESCRIPTION: NISN OVERVIEW

THE PRIMARY RESPONSIBILITY OF NASA INTEGRATED SERVICES (NISN) IS TO INTERCONNECT OVERSEAS AND DOMESTIC TRACKING AND TELEMETRY STATIONS AND SITES, LAUNCH AREAS, MISSION AND PROJECT/PAYLOAD OPERATIONS CONTROL CENTERS, SCIENCE DATA CAPTURE FACILITIES, AND NETWORK CONTROL CENTERS IN THE TRANSPORTING OF SPACECRAFT TELEMETERED DATA, AIR-TO-GROUND VOICE AND VIDEO FOR COMMAND, CONTROL, TRACKING, ORBIT DETERMINATION, AND DATA ACQUISITION. IN ORDER TO MEET THESE RESPONSIBILITIES THE FOLLOWING CIRCUIT PROVISIONING LEAD TIMES HAVE BEEN ESTABLISHED TO ASSIST IN THE PLANNING PROCESS FOR NISN SERVICES. THESE ARE "GUIDELINE" STATEMENTS ONLY, AS ALL REQUIREMENTS WILL NOT HAVE THE SAME LEAD TIMES.

LEAD TIME (MONTHS)	TYPE SERVICE
3	SERVICES VIA EXISTING RESOURCES BUT REQUIRING COORDINATION BETWEEN OTHER NASA CENTERS, FACILITIES, AND USERS.
4	SERVICES COMMONLY PROVIDED BY COMMERCIAL CARRIERS AND THAT DO NOT REQUIRE SPECIAL ENGINEERING; E.G., STANDARD VOICE AND DATA RATES UP TO 1.544 MBS (T-1).

CONTINUED

[PRD] DATABASE RECORD: 522669
ITEM NUMBER: G124DEGHKT

8	SERVICES PROVIDED BY COMMERCIAL CARRIERS AND THAT REQUIRE SPECIAL ENGINEERING AND/ OR CARRIER/NISN SPECIAL EQUIPMENT; E.G., NON-STANDARD MODEMS, BLOCKING/DEBLOCKING EQUIPMENT, OR 4-WIRE TERMINAL EQUIPMENT.
12	STANDARD INTERNATIONAL SERVICES.
18-24	SERVICES REQUIRING SPECIAL ENGINEERING AND/OR CONSTRUCTION OF NEW FACILITIES; E.G., NEW EARTH STATIONS OR FACILITIES INTO REMOTE AREAS, INCLUDING DATA RATES IN EXCESS OF 1.544 MBS (T-1).

TECH CONTACT: GSFC/MIKE ALLEN/410 312-1427

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON (ED) LEVKA/321 494-2143

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 10/15/97
RESPONSE TRACKING: Z8134 Z8708

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 10/08/97
RESPONSE TRACKING: Z8134 Z8703

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 10/07/97
RESPONSE TRACKING: Z8134 Z8703

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: M. BLUM/256 544-5102

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 10/15/97

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 522669
ITEM NUMBER: G124DEGHKT

RESPONSE TRACKING: Z8134 Z8708

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 I-IT-D2-B KICS-105
KICS-109 NE-E PH-I
PH-L

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 10/07/97
RESPONSE TRACKING: Z8134

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 10/07/97
RESPONSE TRACKING: Z8134 Z8703

[PRD] DATABASE RECORD: 522903 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/15/95
INITIAL DATE: 04/15/93
ITEM NUMBER: KY125HK DATE LAST CHANGED: 09/19/06
SECTION: 2700 TIME LAST CHANGED: 12:46:42

REQUESTER: KSC NASA HQ
SUBREQUESTER: KSC/MK-SIO KSC/PH-I KSC/VA-E USK-028
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 DB98 KING2001 L5553 L5701
L5720 L6708 R109-31 RSRRMS157
PRIORITY: REQUIRED
RATIONALE: PRE-LAUNCH MISSION BRIEFING - BACK UP BLACK PHONE.

1. DESCRIPTION: AUDIO SUPPORT FOR MMT BRIEFINGS

PROVIDE AUDIO SUPPORT (INCLUDING NISN FOR SHURE 6000) TO THE OSB II ROOM 5109 FOR ALL MISSION MANAGEMENT TEAM (MMT) BRIEFINGS, INCLUDING FRR (FLIGHT READINESS REVIEW), LRR (LAUNCH READINESS REVIEW), FLIGHT CRE

BRIEFINGS, ORBITER ROLLOUT REVIEW, PRR (PAYLOAD READINESS REVIEW), GOR (GROUND OPERATIONS REVIEW), L-1 DAY AND L-2 DAY BRIEFINGS.

CONTINUED

[PRD] DATABASE RECORD: 522903
ITEM NUMBER: KY125HK

KSC PHONE NUMBER: (321) 867-4769
CONTACT FOR NISN IS JOHN LEVITT/PSC-01/321 867-7726

CONTACTS: RANDALL SEGERT FOR: FRR, ORBITER ROLLOUT REVIEW, L-1 DAY
MK 321 867 5250 AND L-2 DAY BRIEFINGS.

CHARLIE ABNER FOR: FLIGHT CREW BRIEFING
PH/321 861-3800

JOHN TALONE FOR: PRR AND GOR
UB/321 867-6153

RENEE CURRY FOR: LRR
USK-500/321 867-9462

GENEVA NEELY FOR: LRR
USK-500/321-861-9461

BRENT SEALE LSP FRR, LRR
VA-E/321 867-4782

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/24/95
RESPONSE TRACKING: Z5736 Z6935

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/13/95
RESPONSE TRACKING: Z5726 Z6705

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 522925 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/20/04
INITIAL DATE: 04/22/93
ITEM NUMBER: T126T DATE LAST CHANGED: 11/07/06
SECTION: 2700 TIME LAST CHANGED: 08:25:21

REQUESTER: JSC
SUBREQUESTER: B-NS/HOU JSC/DM44 JSC/MS4 MER
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20017S
TRACKING NO. KING2001 L02-7-7 L04-2-1 L06-11-2 L304-7
L304-7A L508-1 L702-2 L711-2 L812-2
R0402-1 R112-9 SHAW95

1. DESCRIPTION: DOLILU DATA TRANSFER SYSTEM TO B-NS HOUSTON,
TOWER II

JSC TO PROVIDE TWO DIVERSELY ROUTED 56 KB/S COMMUNICATIONS LINES/
MODEMS BETWEEN THE JSC MCC, AND B-NS HOUSTON, BLDG 91-41 (TOWER II)
FOR THE DAY OF LAUNCH I-LOAD UPDATE (DOLILU) DATA TRANSFER SYSTEM.

TECHNICAL CONTACTS: JSC/DV/ROBERT FRAZIER/281 483-4444
B-NS/HOU/SHELIA GONZALEZ/281 226-5546
B-NS/HOU/STEPHEN W. PRICE/281 244-3226

COORDINATION: B-NS/HOU/GAIL HARGROVE/281 226-5575
JSC/DM44/HENRY CORDOVA/281 483-6197

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/20/04
RESPONSE TRACKING: Z0402-2 Z5801 Z5802 Z7921 Z9301

[PRD] DATABASE RECORD: 527960 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/30/94
INITIAL DATE: 03/30/94
ITEM NUMBER: T128G DATE LAST CHANGED: 01/16/07
SECTION: 2700 TIME LAST CHANGED: 08:07:23

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 527960
ITEM NUMBER: T128G

REQUESTER: JSC
SUBREQUESTER: JSC/DV
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20017S
TRACKING NO. COMREV05 KING2001 L408-6 L602-1 L6411
R109-31

1. DESCRIPTION: LAUNCH UPLINK REDUNDANCY

JSC REQUIRES TWO (2) DIVERSELY ROUTED 224 KBS CIRCUITS FOR THE FORWARD LINK TO THE SSO VIA MILA/PDL FOR CRITICAL COMMAND/VOICE. CURRENT REQUIREMENTS PROVIDE ONE (1) 224 KBS I/F MILA/PDL. THE SECOND I/F SHOULD BE SCHEDULED FROM L-6 HOURS TERMINAL COUNT TIME THROUGH LAUNCH WINDOW PLUS 1 HOUR.

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: I-PDL MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/06/94
RESPONSE TRACKING: GSFCREV06 Z6414

[PRD] DATABASE RECORD: 528794 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/07/05
INITIAL DATE: 12/05/94
ITEM NUMBER: D129K DATE LAST CHANGED: 05/31/07
SECTION: 2700 TIME LAST CHANGED: 09:45:41

REQUESTER: HSFS
TEST CODE: ISTRES MORON STSALL ZARAGOZA

ASSOCIATED DOC: 20029S 20057S 20070S
TRACKING NO. KING2001 L114-3 R109-31 R6304
PRIORITY: REQUIRED
RATIONALE: REQUIRED TO COORDINATE DoD CONTINGENCY TAL SUPPORT

CONTINUED

[PRD] DATABASE RECORD: 528794
ITEM NUMBER: D129K

1. DESCRIPTION: HAND-HELD RADIOS FOR DOD AT TAL SITES

DOD/HSFS OPERATIONS PERSONNEL DEPLOYED TO ACTIVE TAL SITES REQUIRE HAND-HELD RADIO COMMUNICATIONS AS OUTLINED BELOW. DEDICATED GROUND COMMUNICATIONS CAPABILITY ON THE TAL GROUND OPERATIONS NET IS REQUIRED BETWEEN DDMS AND THE C-130 PARKING LOCATIONS, DOD FLIGHT SURGEONS AT THE RUNWAY TRIAGE SITE, DOD SECURITY AND F/C/R PERSONNEL AT ZARAGOZA AB,

AND THE SPANISH AF LIASON (SAFLO) AT ZARAGOZA AB. ADDITIONALLY, RADIOS ARE REQUIRED FOR WEATHER PERSONNEL FOR TASS/HANDAR OPERATIONS AND AIRFIELD TOWER COORDINATION.

REQUEST THE FOLLOWING ALLOCATIONS:

	DDMS	C-130	WX	MED	SEC	F/C/R	SAFLO	TOTAL
ZARAGOZA	1	1	2	2	2	6	1	15
MORON AB	1	1	1	1				4
ISTRES	1	1	1	2				5
TOTAL								24

POC: WILLIAM MERRILL/IT-D2/321 861-2268
TECH CONTACT: (D) HSFS-O/321 494-5116

NOTE: KSC WILL SUPPORT THE ABOVE, EXCEPT MEDICAL, AS HARD REQUIREMENTS. MEDICAL PERSONNEL WILL BE SUPPORTED WITH SPARE RADIOS, ON AN AS-AVAILABLE BASIS (NORMALLY THREE (3) SPARE RADIOS ARE AVAILABLE AT EACH SITE).

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: PH-L

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/07/05
RESPONSE TRACKING: Z6305

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 528850 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/20/95
INITIAL DATE: 12/16/94
ITEM NUMBER: K130EGK DATE LAST CHANGED: 11/16/06
SECTION: 2700 TIME LAST CHANGED: 07:13:27

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
TRACKING NO. COMREV05 ER9501 KING2001 L6701 L6712
MK98 R109-31 R6306
PRIORITY: REQUIRED
RATIONALE: LEAD RANGE CONCEPT, EASTERN RANGE NOT INVOLVED DIRECTLY IN SUPPORT.

1. DESCRIPTION: LRD COMMUNICATION CAPABILITY ON ALS CONVOY COMMAND NET

PROVIDE THE KSC LANDING RECOVERY DIRECTOR (LRD) THE CAPABILITY TO INDEPENDENTLY COMMUNICATE WITH THE KSC AND DFRC/WSSH CONVOY COMMANDERS ON COMMAND NETS FROM CALL TO STATION THROUGH LANDING SITE COMMIT.

PRIME: KSC/PH-L/DON HAMMEL/321 861-9315
TECHNICAL CONATACT: KSC/USK-426/MIKE KUTA/321 861-3980
COMM CONTACT: WILLIAM MERRILL/IT-D2-A/321 861-2268

NOTE: SEE LLS 2750, ITEM NUMBERS GK217.1K, K217.2G, DBR 529164, 529165.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB ER WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 03/02/95
RESPONSE:
THIS FREQUENCY MUST BE SCHEDULED THROUGH EAFB RANGE SCHEDULING.

RESPONSE TRACKING: Z7312

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/01/95

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 528850
ITEM NUMBER: K130EGK

RESPONSE TRACKING: Z6918

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/28/95
RESPONSE TRACKING: Z6936

[PRD] DATABASE RECORD: 561496 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/14/02
INITIAL DATE: 01/14/02
ITEM NUMBER: H131K DATE LAST CHANGED: 11/15/05
SECTION: 2700 TIME LAST CHANGED: 07:31:28

REQUESTER: MSFC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 KING2001 R109-2
PRIORITY: REQUIRED
RATIONALE: SSC IS REQUIRED TO MONITOR THESE LOOPS AS PART OF THE TEAM NECESSARY TO PROVIDE A RESPONSE IN THE EVENT OF AN INCIDENT.

1. DESCRIPTION: SSC LAUNCH SUPPORT

PROVIDE STENNIS SPACE CENTER (SSC) PROPULSION TEST DIRECTORATE ENGINEERS AND SAFETY ENGINEERS WITH THE CAPABILITY TO MONITOR THE FOLLOWING KSC VOICE LOOPS DURING SHUTTLE LAUNCH SUPPORT. THE REQUIRED PERIOD IS FROM LAUNCH -9 HOURS THROUGH MECO +1 HOUR.

OIS-146	M
SRM&QA COORD	T/M
PAO CUE	T/M
PAO COORD	T/M

THESE LOOPS SHALL BE ROUTED FROM THE KSC CD&SC BUILDING TO THE CENTER OPS CONFERENCE ROOM (BLDG 1100, ROOM 3027) AT SSC.

POC: KSC/MONIQUE MCLAMB/321 867-8540

CONTINUED

[PRD] DATABASE RECORD: 561496
ITEM NUMBER: H131K

SSC/LES RIDAUGHT/228 688-2741

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/14/02

[PRD] DATABASE RECORD: 579883 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/31/05
INITIAL DATE: 01/31/05
ITEM NUMBER: T132Z DATE LAST CHANGED: 04/04/07
SECTION: 2700 TIME LAST CHANGED: 07:16:01

REQUESTER: JSC
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. COMREV05 R0501-1

1. DESCRIPTION: SYSTEM MANAGEMENT TERMINAL

RESPONSIBLE AGENCY: WSTF

PROVIDE A SYSTEM MANAGEMENT TERMINAL IN THE WSSH COMM CENTER.
THIS TERMINAL SHALL HAVE THE CAPACITY TO COMMUNICATE TO THE ZONE
CONTROLLER TO CHANGE PRIORITIES AND DIRECT TALK GROUPS TO SPECIFIC
SITES AS NEEDED DURING MISSIONS.

COMM CONTACT: WSTF/ZIGGY ZAPEN/505 524-5556

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 527-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/31/05

[PRD] DATABASE RECORD: 579884 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/07/05
INITIAL DATE: 03/07/05
ITEM NUMBER: KT133Z DATE LAST CHANGED: 10/14/05
SECTION: 2700 TIME LAST CHANGED: 13:49:38

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 579884
ITEM NUMBER: KT133Z

REQUESTER: KSC JSC
SUBREQUESTER: KSC/PH-L
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. COMREV05 R0501-1

1. DESCRIPTION: CREW TRANSPORTATION VEHICLE

RESPONSIBLE AGENCY: WSTF

PROVIDE AN ASTRO VAN TO TRANSPORT THE ORBITER CREW. THIS VEHICLE WILL BE EQUIPPED WITH A MOBILE TRUNKING RADIO TO INTERFACE WITH THE REQUIRED SHUTTLE VOICE CONFERENCES (EMS COORD, AIRFIELD, COMMAND, AND NASA/DOD).

PRIME: KSC/PH-L/LOU GARCIA/321 861-6196
TECH CONTACT: WSTF/RC1/ROBERT MITCHELL/505 524-5774

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/07/05

[PRD] DATABASE RECORD: 579885 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/07/05
INITIAL DATE: 03/07/05
ITEM NUMBER: KT134Z DATE LAST CHANGED: 05/31/07
SECTION: 2700 TIME LAST CHANGED: 10:16:35

REQUESTER: KSC JSC
SUBREQUESTER: KSC/PH-L
TEST CODE: S0027.001 STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. COMREV05 R0501-1

1. DESCRIPTION: MOBILE TRANSCEIVERS IN THE CONVOY COMMANDER VEHICLE

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 579885
ITEM NUMBER: KT134Z

RESPONSIBLE AGENCY: WSTF

PROVIDE 8 UHF TRUNKING TRANCEIVERS IN THE CONVOY COMMAND VEHICLE. THESE TRANCEIVERS WILL BE PROGRAMMED TO SPECIFIC TALK GROUPS (SEE LIST BELOW). THE RADIO WILL BE INTERFACED TO AN AUDIO MATRIX FOR DISTRIBUTION TO SPECIFIED CONSOLES.

NASA/DOD (TALK GROUP 800609)
WSMR SECURITY (TALK GROUP 802428)
PURGE (TALK GROUP 800603)
COOLING (TALK GROUP 800605)
HSFS COORD (TALK GROUP 800514)
AIRFIELD (TALK GROUP 800581)
GROUND OPERATIONS (TALK GROUP 800611)
COMMAND (TALK GROUP 800607)
EMS COORD (TALK GROUP 800599)

PRIME: KSC/PH-L/LOU GARCIA/321 861-6196
TECHNICAL CONTACT: WSTF/ZIGGY ZAPEN/505 524-5556

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/07/05

[PRD] DATABASE RECORD: 579886 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/07/05
INITIAL DATE: 03/07/05
ITEM NUMBER: KT135Z DATE LAST CHANGED: 04/04/07
SECTION: 2700 TIME LAST CHANGED: 07:17:00

REQUESTER: KSC JSC
SUBREQUESTER: KSC/PH-L
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. COMREV05 R0501-1

1. DESCRIPTION: CONVOY COMMAND VEHICLE CONSOLES

CONTINUED

[PRD] DATABASE RECORD: 579886
ITEM NUMBER: KT135Z

RESPONSIBLE AGENCY: WSTF

PROVIDE FOUR CONSOLES IN THE CONVOY COMMAND VEHICLE FOR THE FOLLOWING POSITIONS: DOD ON-SCENE COMMANDER (OSC), NASA CONVOY COMMANDER, DOD SUPPORT PERSONNEL, AND KSC OPERATIONS. THESE CONSOLES WILL HAVE AT LEAST 10 CHANNELS TO BE CONFIGURED TO THE REQUIRED CONFERENCES. A REMOTE SPEAKER WILL BE DISABLED AND ADDITIONAL HEADSETS WILL BE SUPPLIED.

PRIME: KSC/PH-L/LOU GARCIA/321 861-6196
TECHNICAL CONTACT: WSTF/ZIGGY ZAPEN/505 524-5556

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/07/05

[PRD] DATABASE RECORD: 579897 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/21/05
INITIAL DATE: 02/21/05
ITEM NUMBER: KT136Z DATE LAST CHANGED: 05/31/07
SECTION: 2700 TIME LAST CHANGED: 10:17:04

REQUESTER: KSC JSC
SUBREQUESTER: KSC/PH-L
TEST CODE: S0027.100 STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. COMREV05 R0501-1 R0501-1A

1. DESCRIPTION: CONVOY COMMAND VEHICLE CAPABILITIES

RESPONSIBLE AGENCY: WSTF

THE CONVOY COMMAND VEHICLE CONSOLES SHALL HAVE THE ABILITY TO COMMUNICATE ON ANY OF THE FOLLOWING CHANNELS VIA THE AUDIO PATCH PANEL.

CONTINUED

[PRD] DATABASE RECORD: 579897
ITEM NUMBER: KT136Z

A/G UHF (259.7)
A/G UHF (296.8)
VHF A/G (126.5)
HSFS COORD
COMMAND
AIRFIELD
WSMR SECURITY
NASA/DOD
GROUND OPERATIONS
COOLING
PURGE
EMS COORD

PRIME: KSC/PH-L/LOU GARCIA/321 861-6196
TECHINCAL CONTACT: WSTF/FURMAH SMITH/505 524-5394

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/21/05

[PRD] DATABASE RECORD: 579917 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/21/05
INITIAL DATE: 02/21/05
ITEM NUMBER: T137Z DATE LAST CHANGED: 05/31/07
SECTION: 2700 TIME LAST CHANGED: 10:17:56

REQUESTER: JSC
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. COMREV05 R0501-1 R0501-1A

1. DESCRIPTION: TRUNKING CONTROL STATIONS OIS-B

RESPONSIBLE AGENCY: WSTF

CONTINUED

[PRD] DATABASE RECORD: 579917
ITEM NUMBER: T137Z

PROVIDE 12 TRUNKING CONTROL STATIONS IN THE WSSH COMMUNICATIONS CENTER. THE RADIO BASE STATION WILL BE INTERFACED TO THE OIS-D ALLOWING LONG LINE AND MULTIPLE LOCAL CONTROL POINTS. KEYING WILL BE ACCOMPLISHED BY USING VOICE RECOGNITION.

EACH CONTROL STATION SHALL BE PROGRAMMED WITH ALL THE FOLLOWING TALK GROUPS. THE DESIGNATED BASE STATIONS WILL BE PROGRAMMED WITH ITS RESPECTIVE HOME TALK GROUP. REFERENCE DOCUMENT OMI D3012.

FUNCTION	TALK GROUP
AIRFIELD OPERATIONS	800581
GROUND OPERATIONS	800611
NASA/DOD	800609
CONVOY COMMAND	800607
COOLING	800605
HSFS COORD/EPDC	800585/800514
HAFB SECURITY/WSMR SECURITY	803435/802369
MPS	800673
PURGE	800603
TPE	800559
EMS COORD/PRSD	803435/800675
LF-1/CRANE OPS	800557/FREQ. 412.6500 MHZ

TECHNICAL CONTACT: ZIGGY ZAPEN/505 524-5556

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/21/05

[PRD] DATABASE RECORD: 579918
DOCUMENT ID: LLS
ITEM NUMBER: T138Z
SECTION: 2700

REQUIREMENT STATUS: APPROVED
APPROVAL DATE: 02/01/05
INITIAL DATE: 02/01/05
DATE LAST CHANGED: 04/04/07
TIME LAST CHANGED: 07:18:50

CONTINUED

[PRD] DATABASE RECORD: 579918
ITEM NUMBER: T138Z

REQUESTER: JSC
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. COMREV05 R0501-1

1. DESCRIPTION: RADIO TRUNKING INFRASTRUCTURE

RESPONSIBLE AGENCY: WSTF

PROVIDE AT LEAST SIX VOICE CHANNELS WITHIN THE SMARTZONE RADIO TRUNKING SYSTEM TO BE USED DURING LANDING AND TURNAROUND OPERATIONS. SYSTEM SHALL ALLOW SIMULTANEOUS USE OF SIX CHANNELS (TALK GROUPS).

TECHNICAL CONTACT: WSTF/ZIGGY ZAPEN/505 524-5556

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/01/05

[PRD] DATABASE RECORD: 579937 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/01/05
INITIAL DATE: 02/01/05
ITEM NUMBER: T139Z DATE LAST CHANGED: 04/04/07
SECTION: 2700 TIME LAST CHANGED: 07:20:47

REQUESTER: JSC
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. COMREV05 R0501-1

1. DESCRIPTION: ORBITER AIR-TO-GROUND UHF CIRCUIT

RESPONSIBLE AGENCY: WSTF

PROVIDE ORBITER AIR-TO-GROUND UHF CIRCUIT. EXTEND ORBITER A/G TO THE WSSH OIS FOR DISTRIBUTION TO THE LOCAL UHF TRACKING STATION

CONTINUED

[PRD] DATABASE RECORD: 579937
ITEM NUMBER: T139Z

AND A LOCAL BACKUP UHF RADIO (ARC-164). THIS WILL ALLOW THE MCC AND THE WSSH GOM TO COMMUNICATE WITH EACH OTHER AND THE ORBITER. THE REQUIRED WSSH CONSOLE WILL HAVE THE SAME UHF A/G CAPABILITY AS THE MCC CONSOLE. THIS CIRCUIT AND EQUIPMENT WILL BE VALIDATED NOT MORE THAN SEVEN (7) DAYS BEFORE THE SCHEDULED LAUNCH PER OMI-D3012.

POC: WSTF/ZIGGY ZAPEN/505 524-5556

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/01/05

[PRD] DATABASE RECORD: 579938 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/07/05
INITIAL DATE: 03/07/05
ITEM NUMBER: KT140Z DATE LAST CHANGED: 04/04/07
SECTION: 2700 TIME LAST CHANGED: 07:21:16

REQUESTER: KSC JSC
SUBREQUESTER: KSC/PH-L
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. COMREV05 R0501-1

1. DESCRIPTION: SYSTEM ENGINEER (LEVEL 2 REPRESENTATIVE) CONSOLE

RESPONSIBLE AGENCY: WSTF

PROVIDE LEVEL 2 REPRESENTATIVE CONSOLE IN THE WOCC WITH TEN CHANNEL CAPABILITY.

PRIME: KSC/PH-L/LOU GARCIA/321 861-6196
TECHNICAL CONTACT: WSTF/ZIGGY ZAPEN/505 524-5556

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

CONTINUED

[PRD] DATABASE RECORD: 579938
ITEM NUMBER: KT140Z

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/07/05

[PRD] DATABASE RECORD: 579957
DOCUMENT ID: LLS
ITEM NUMBER: T142Z
SECTION: 2700

REQUIREMENT STATUS: APPROVED
APPROVAL DATE: 03/07/05
INITIAL DATE: 03/07/05
DATE LAST CHANGED: 04/04/07
TIME LAST CHANGED: 07:22:24

REQUESTER: JSC
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. COMREV05 R0501-1

1. DESCRIPTION: CRANE OPS CIRCUIT

RESPONSIBLE AGENCY: WSTF

PROVIDE CRANE OPS CIRCUIT. THE NET WILL OPERATE ON A CONVENTIONAL FREQUENCY OF 412.6500 WITH A DCS OF 244. CRANE OPS WILL ACTIVATE AT L+24 HOURS AND REMAIN ACTIVE UNTIL SCA LIFTOFF. CIRCUIT AND EQUIPMENT WILL BE VALIDATED NOT MORE THAN SEVEN DAYS BEFORE THE SCHEDULED LAUNCH PER OMI-D3012.

TECHNICAL CONTACT: WSTF/ZIGGY ZAPEN/505 524-5556

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/07/05

[PRD] DATABASE RECORD: 579958
DOCUMENT ID: LLS
ITEM NUMBER: KT143Z
SECTION: 2700

REQUIREMENT STATUS: APPROVED
APPROVAL DATE: 03/07/05
INITIAL DATE: 03/07/05
DATE LAST CHANGED: 04/04/07
TIME LAST CHANGED: 07:23:17

REQUESTER: KSC JSC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 579958
ITEM NUMBER: KT143Z

SUBREQUESTER: KSC/PH-L
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. R0501-1

1. DESCRIPTION: COOLING CIRCUIT

RESPONSIBLE AGENCY: WSTF

PROVIDE COOLING CIRCUIT. EXTEND COOLING CIRCUIT TO THE WSSH OIS FOR DISTRIBUTION TO SPECIFIED CONSOLES IN THE WOCC. THE NET WILL OPERATE ON TALK GROUP 800605. CIRCUIT AND EQUIPMENT WILL BE VALIDATED NOT MORE THAN SEVEN DAYS BEFORE THE SCHEDULED LAUNCH PER OMI-D3012.

TECHNICAL CONTACT: WSTF/ZIGGY ZAPEN/505 524-5556
KSC/LOU GARCIA/321 867-6196

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/07/05

[PRD] DATABASE RECORD: 579977 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/01/05
INITIAL DATE: 02/01/05
ITEM NUMBER: T144Z DATE LAST CHANGED: 04/04/07
SECTION: 2700 TIME LAST CHANGED: 07:23:54

REQUESTER: JSC
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S 25044S
TRACKING NO. COMREV05 R0501-1

1. DESCRIPTION: MSFC/GSFC COORD CIRCUIT

CONTINUED

[PRD] DATABASE RECORD: 579977
ITEM NUMBER: T144Z

RESPONSIBLE AGENCY: WSTF

PROVIDE GSFC/MSFC COORD CIRCUIT. EXTEND GSFC/MSFC COORD CIRCUIT TO THE WSSH OIS FOR DISTRIBUTION TO UHF TRACKING CONSOLE IN THE WSSH COMM CENTER. CIRCUIT AND EQUIPMENT WILL BE VALIDATED NOT MORE THAN SEVEN DAYS BEFORE THE SCHEDULED LAUNCH PER OMI-D3012.

COMM CONTACT: WSTF/ZIGGY ZAPEN/505 524-5556

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/01/05

[PRD] DATABASE RECORD: 579997 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/21/05
INITIAL DATE: 02/21/05
ITEM NUMBER: KT145Z DATE LAST CHANGED: 04/04/07
SECTION: 2700 TIME LAST CHANGED: 07:24:32

REQUESTER: KSC JSC
SUBREQUESTER: KSC/PH-L
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S 25044S
TRACKING NO. COMREV05 R0501-1 R0501-1A

1. DESCRIPTION: POWER REACTANT STORAGE & DISTRIBUTION (PRSD) (OIS-153)

RESPONSIBLE AGENCY: WSTF

PROVIDE PRSD CIRCUIT. EXTEND PRSD CIRCUIT TO THE WSSH OIS FOR DISTRIBUTION TO SPECIFIED CONSOLES FOR MISSION SUPPORT. WILL OPERATE ON TALK GROUP 800675. SHARED CIRCUIT WITH LANDING FIELD 2. THIS CIRCUIT WILL ACTIVATE AT HANDOVER AND REMAIN ACTIVE UNTIL SCA LIFTOFF. CIRCUIT AND EQUIPMENT WILL BE VALIDATED NOT MORE THAN SEVEN DAYS BEFORE THE SCHEDULED LAUNCH PER OMI-D3012.

CONTINUED

[PRD] DATABASE RECORD: 579997
ITEM NUMBER: KT145Z

PRIME: KSC/PH-L/LOU GARCIA/321 861-6196
WSTF/ZIGGY ZAPEN/505 524-5556

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/21/05

[PRD] DATABASE RECORD: 580258 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/01/05
INITIAL DATE: 02/01/05
ITEM NUMBER: T146Z DATE LAST CHANGED: 05/16/05
SECTION: 2700 TIME LAST CHANGED: 09:20:38

REQUESTER: JSC
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. R0501-1

1. DESCRIPTION: AIR-TO-GROUND-2 (A/G-2) CIRCUIT

REPONSIBLE AGENCY: WSTF

PROVIDE AIR-TO-GROUND (A/G-2) CIRCUIT. EXTEND A/G-2 TO THE WSSH OIS FOR DISTRIBUTION TO SPECIFIED CONSOLES. CIRCUIT AND EQUIPMENT WILL BE VALIDATED NOT MORE THAN SEVEN DAYS BEFORE THE SCHEDULED LAUNCH PER OMI D-3012.

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/01/05

[PRD] DATABASE RECORD: 580277 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/14/05
INITIAL DATE: 02/01/05
ITEM NUMBER: T147Z DATE LAST CHANGED: 05/31/07
SECTION: 2700 TIME LAST CHANGED: 10:18:41

REQUESTER: JSC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 580277
ITEM NUMBER: T147Z

TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. COMREV05 R0501-1 R0504-8

1. DESCRIPTION: HSFS COORD CIRCUIT

RESPONSIBLE AGENCY: WSTF

PROVIDE DDMS COORD CIRCUIT. EXTEND DDMS COORD TO THE WSSH OIS FOR DISTRIBUTION TO SPECIFIED CONSOLES. WILL OPERATE ON TALK GROUP 80514. THIS CIRCUIT IS SHARED WITH EPDC. HSFS COORD WILL ACTIVATE AT DE-ORBIT BURN AND REMAIN ACTIVE UNTIL L+6 HOURS. OMI-D3012 CIRCUIT AND EQUIPMENT WILL BE VALIDATED NOT MORE THAN SEVEN DAYS BEFORE THE SCHEDULED LAUNCH PER OMI-D3012.

COMM CONTACT: WSTF/ZIGGY ZAPEN/505 524-5556
JSC/KEN JONES/281 483-7671

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/14/05
RESPONSE TRACKING: Z0504-5

[PRD] DATABASE RECORD: 580278 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/21/05
INITIAL DATE: 02/21/05
ITEM NUMBER: KT148Z DATE LAST CHANGED: 04/04/07
SECTION: 2700 TIME LAST CHANGED: 07:26:18

REQUESTER: KSC JSC
SUBREQUESTER: KSC/PH-L
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S 25044S
TRACKING NO. COMREV05 R0501-1 R0501-1A R0504-8

1. DESCRIPTION: LANDING & RECOVERY DIRECTOR (LRD) CIRCUIT

CONTINUED

[PRD] DATABASE RECORD: 580278
ITEM NUMBER: KT148Z

(OIS-135)

RESPONSIBLE AGENCY: WSTF

PROVIDE LANDING & RECOVERY DIRECTOR (LRD) CIRCUIT. EXTEND LRD TO THE WSSH OIS FOR DISTRIBUTION TO SPECIFIED CONSOLES. OMI-D3012 CIRCUIT A ND EQUIPMENT WILL BE VALIDATED NOT MORE THAN SEVEN DAYS BEFORE THE SCHED ULED LAUNCH PER OMI-D3012.

PRIME: KSC/PH-L/LOU GARCIA/321 861-6196

COMM CONTACT: WSTF/ZIGGY ZAPEN/505 524-5556
JSC/KEN JONES/281 483-7671

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/14/05
RESPONSE TRACKING: Z0504-5

[PRD] DATABASE RECORD: 580279 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/14/05
INITIAL DATE: 02/21/05
ITEM NUMBER: KT149Z DATE LAST CHANGED: 04/04/07
SECTION: 2700 TIME LAST CHANGED: 07:26:50

REQUESTER: KSC JSC
SUBREQUESTER: KSC/PH-L
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S 25044S
TRACKING NO. COMREV05 R0501-1 R0501-1A R0504-8

1. DESCRIPTION: MAIN PROPULSION SYSTEM (MPS)

RESPONSIBLE AGENCY: WSTF

PROVIDE A MAIN PROPULSION SYSTEM (MPS) CIRCUIT. EXTEND MPS TO THE WSSH OIS FOR DISTRIBUTION TO SPECIFIED CONSOLES. WILL

CONTINUED

[PRD] DATABASE RECORD: 580279
ITEM NUMBER: KT149Z

OPERATE ON TALK GROUP 800673. THIS IS A SHARED CIRCUIT WITH
TRACK COORD. MPS WILL ACTIVATE AT WHEEL STOP AND REMAIN ACTIVE
UNTIL SCA LIFTOFF. CIRCUIT AND EQUIPMENT WILL BE VALIDATED NOT MORE THA
N SEVEN DAYS BEFORE THE SCHEDULED LAUNCH PER OMI-D3012.

PRIME: KSC/PH-L/LOU GARCIA/321 861-6196

TECHNICAL CONTACT: WSTF/ZIGGY ZAPEN/505 524-5556
KSC/MARK PAXTON/321 861-7699

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/14/05
RESPONSE TRACKING: Z0504-5

[PRD] DATABASE RECORD: 581477 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/05/05
INITIAL DATE: 04/05/05
ITEM NUMBER: K150HKT DATE LAST CHANGED: 07/14/05
SECTION: 2700 TIME LAST CHANGED: 08:50:41

REQUESTER: KSC
SUBREQUESTER: EA
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20017S 20026S 20028S
TRACKING NO. R0504-2

1. DESCRIPTION: INDEPENDENT TECHNICAL AUTHORITY COORD (ITA)
(OIS CH 6020)

THIS CHANNEL IS USED BETWEEN ITA'S LOCATED AT MSFC, JSC
AND KSC. TOGETHER THEY WORK ON REAL TIME ISSUES AND THEY
PROVIDE INTEGRATED SOLUTIONS TO THE SHUTTLE MANAGEMENT TEAM.

POINT OF CONTACT: OSCAR TOLEDO/EA/321-867-1460

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 581477
ITEM NUMBER: K150HKT

PAUL SHACK/EA42/281 483-1428
PAUL MUNAFO/DA01/256 544-5877

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/05/05
RESPONSE TRACKING: Z0504-2

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-B KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/05/05

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/11/05
RESPONSE TRACKING: Z0505-2

[PRD] DATABASE RECORD: 582318 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/09/05
INITIAL DATE: 05/09/05
ITEM NUMBER: T151HKT DATE LAST CHANGED: 12/14/05
SECTION: 2700 TIME LAST CHANGED: 07:09:42

REQUESTER: JSC
SUBREQUESTER: JSC/DV
TEST CODE: ALPHSE LAEORB PREFLT STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 L05-4-1 R0505-1

1. DESCRIPTION: SHUTTLE SYSTEMS ENGINEERING AND INTEGRATION OFFICE

SIX VOICE LOOPS ARE NEEDED TO SUPPORT SE&I BETWEEN JSC, KSC, AND MSFC. KENNEDY SPACE CENTER BRINGS UP THE LOOPS AT APPROXIMATELY LAUNCH -3 DAYS, AND JOHNSON SPACE CENTER BRINGS UP THE LOOPS AT APPROXIMATELY LAUNCH -30 HOURS. THESE LOOPS SHOULD REMAIN INTER-

CONTINUED

[PRD] DATABASE RECORD: 582318
ITEM NUMBER: T151HKT

CONNECTED BETWEEN JSC, KSC, AND MSFC FOR THE DURATION OF THE MISSION.

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/09/05
RESPONSE TRACKING: Z0505-1

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/09/05

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/09/05

[PRD] DATABASE RECORD: 583417 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/16/05
INITIAL DATE: 06/16/05
ITEM NUMBER: T152GZ DATE LAST CHANGED: 11/16/06
SECTION: 2700 TIME LAST CHANGED: 07:13:29

REQUESTER: JSC
SUBREQUESTER: JSC/DV
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20017S 20027S
TRACKING NO. COMREV05 L05-6-1 R0506-2
PRIORITY: MANDATORY
RATIONALE: VOICE COMMUNICATIONS

1. DESCRIPTION: UPLINK S-BAND/UHF DELAY MEASUREMENT CAPABILITY

AT LANDING AT WSSH, SIMULTANEOUS S-BAND AND UHF ARE UPLINKED TO THE

CONTINUED

[PRD] DATABASE RECORD: 583417
ITEM NUMBER: T152GZ

ORBITER. IN ORDER TO KEEP THE UHF AND S-BAND IN SYNC (NO ECHO), THE WSSH UHF VERIFICATION RECEIVER AND S-BAND WSC/STGT S-BAND VOICE PROCESSING EQUIPMENT MUST BE USED TO EXTRACT THE SIMO ANALOG VOICE AND ROUTE THIS VOICE (VIA TWO IDENTICALLY ROUTED LONGLINES) TO JSC FOR DELAY CORRECTION.

POC: JSC GC/BILL FOSTER/281 483-0640

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/22/05
RESPONSE TRACKING: Z0506-2

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/30/05

[PRD] DATABASE RECORD: 583480 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/09/05
INITIAL DATE: 03/09/05
ITEM NUMBER: KTY153EK DATE LAST CHANGED: 12/14/05
SECTION: 2700 TIME LAST CHANGED: 07:53:48

REQUESTER: KSC JSC NASA HQ
SUBREQUESTER: PH
TEST CODE: LAUNCH PREFLT STSALL TVPLAN

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05

1. DESCRIPTION: VOICE REQUIREMENTS FOR ET TV VIDEO SUPPORT

RESPONSIBLE AGENCY: KSC

KSC WILL BE RESPONSIBLE FOR PROVIDING ACCESS TO THE MISSION

CONTINUED

[PRD] DATABASE RECORD: 583480
ITEM NUMBER: KTY153EK

AUDIO (M) AND TV CONFERENCE T/L TO ER/JDMTA FOR COORDINATION
OF ET TV VIDEO SUPPORT.

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540
JSC/KEN JONES/281 483-7671

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/24/05

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/09/05

[PRD] DATABASE RECORD: 589299 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/14/06
INITIAL DATE: 09/14/06
ITEM NUMBER: BHT155HKT DATE LAST CHANGED: 11/15/06
SECTION: 2700 TIME LAST CHANGED: 13:18:54

REQUESTER: GRC MSFC JSC
TEST CODE: LAUNCH MMT

ASSOCIATED DOC: 20007S
TRACKING NO. L06-8-3 R0609-3

1. DESCRIPTION: GRC VOICE REQUIREMENT FOR MMT SUPPORT

RESPONSIBLE AGENCY: JSC/MSFC/KSC

VOICE LOOPS WILL BE CONFIGURED ON EXISTING CIRCUITS FROM L-24 HOURS
THROUGH EOM FOR SHUTTLE SUPPORT.

CONFIGURATION FROM JSC TO GRC

NAME	CAP	NOTE	FROM	TO

CONTINUED

[PRD] DATABASE RECORD: 589299
ITEM NUMBER: BHT155HKT

STAFF ENG	M	1	JSC	GRC VIA HOSC
FD 1	M	1	JSC	GRC VIA HOSC
A/G 1	M	1	JSC	GRC VIA HOSC
A/G 2	M	1	JSC	GRC VIA HOSC
SSPO	M	1	JSC	GRC VIA HOSC

CONFIGURATION FROM KSC TO GRC

NAME	CAP	NOTE	FROM	TO
OIS 161	M	1	KSC	GRC VIA HOSC

NOTE 1: MSFC WILL EXTEND THE CIRCUITS TO GRC IN SUPPORT OF MMT CONTINGENCY SIMS AND FOR STS LAUNCH AND FLIGHT SUPPORT.

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/14/06

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-A
RESPONDER: ROD THORNTON/321 867-2241

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/14/06

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/14/06

[PRD] DATABASE RECORD: 589899 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/02/06
INITIAL DATE: 11/02/06
ITEM NUMBER: KT156EK DATE LAST CHANGED: 02/26/07
SECTION: 2700 TIME LAST CHANGED: 11:30:19

REQUESTER: KSC JSC
SUBREQUESTER: JSC/MS KSC/PH-B

CONTINUED

[PRD] DATABASE RECORD: 589899
ITEM NUMBER: KT156EK

TEST CODE: INFO S0007.100

ASSOCIATED DOC: 20007S
TRACKING NO. R0611-2 R0611-5

1. DESCRIPTION: DEBRIS RADAR

PROVIDE COMMUNICATIONS SERVICES FOR THE NASA DEBRIS RADAR (NDR) SYSTEM AT THE NDR-1 SITE NEAR HAULOVER CANAL ON KENNEDY SPACE CENTER. PROVIDE FOR CONNECTIVITY TO OTHER NDR SITES BY EXTENDING SPECIFIC COMMUNICATIONS SERVICES TO DEFINED INTERFACES, AND SUPPORT END TO END TESTING AND PROBLEM RESOLUTION.

PROVIDE ADMINISTRATIVE TELEPHONES

- PROVIDE 4 TELEPHONE LINES IN THE NDROC AND 2 TELEPHONE LINES IN THE RCB (ALL WITH INDIVIDUAL PHONE NUMBERS)
- PROVIDE 2 TELEPHONES IN THE CONFERENCE ROOM AND THE SINGLE TELEPHONE AT THE DRO CONSOLE SHALL BE CONFIGURABLE FOR SPEAKERPHONE/TELECON SUPPORT.

PROVIDE DATA CIRCUITS (LTAS DATA) REF. DBR 589957

- PROVIDE TRANSMISSION OF LAUNCH TRAJECTORY ACQUISITION SYSTEM (LTAS) DATA TO NDR-1 IN RS-530 SYNCHRONOUS FORMAT AT 2.4 KBS.

PROVIDE RADAR OPERATIONS NETWORK

PROVIDE RADAR OPERATIONS NETWORK (RON) CAPABLE OF TRANSMITTING TCP/IP AND UDP/IP BROADCAST DATA.

- DESIGN, INSTALL, AND CONFIGURE TRANSMISSION EQUIPMENT NEEDED TO ESTABLISH NDR-1 AS A RON NODE.
- PROVIDE RON TRANSMISSION TO AND FROM A CUSTOMER-OWNED SWITCH WHICH CONTROLS A CUSTOMER OWNED AND MAINTAINED NETWORK (COAM) AT THE SITE.
- TRANSMIT RON TRAFFIC TO AND FROM NDR-1 VIA THE EXISTING SONET LINK BETWEEN THE SITE AND THE CDSC.

CONTINUED

[PRD] DATABASE RECORD: 589899
ITEM NUMBER: KT156EK

NDR-3 AND NDR-4 (REF DBR 589959)
- FOR EACH SITE, DESIGN, INSTALL AND CONFIGURE EQUIPMENT AND CABLING AT CDSC TO ENABLE RON TRANSMISSION OVER ISDN. ROUTE THE TWO ISDN CIRCUITS TO THE KSC ADMINISTRATIVE TELEPHONE SWITCH FOR CONNECTION TO THE PUBLIC SWITCHED TELEPHONE NETWORK. PROVIDE KSC TELEPHONE NUMBERS FOR SITE PERSONNEL TO DIAL IN ORDER TO CONNECT TO THE RON.
- TRANSMISSION OF THESE TWO ISDN LINKS TO THE SHIPS WILL BE VIA A "SHIP-TO-SHORE" TELEPHONE CALL VIA AN INMARSAT SATELLITE. TRANSMISSION FROM THE KSC TELEPHONE SWITCH TO THE SHIPS, AND CONFIGURE OF EQUIPMENT ONBOARD THE SHIPS, ARE THE RESPONSIBILITY OF THE COMMERCIAL PROVIDER AND SITE PERSONNEL. KICS SHALL COORDINATE WITH THESE PARTIES AS NEEDED FOR END-TO-END CONFIGURATION, TESTING AND TROUBLESHOOTING.
- THERE WILL BE NO CONNECTION BETWEEN THE RON AND THE KSC INSTITUTIONAL NETWORK (KNET).
- THE NETWORK DESIGH AND OPERATION SHALL COMPLY WITH KSC NETWORK SECURITY REQUIREMENTS.

PROVIDE INSTITUTIONAL NETWORK
- PROVIDE CONNECTIVITY TO THE KENNEDY INSTITUTIONAL NETWORK (KNET) AT NDR-1.

PROVIDE MISSION VOICE (REF. DBR 588918)
PROVIDE THE FOLLOWING MISSION VOICE LOOPS TO EACH NDROC EI:
- IPC NET (2MPC111) ACTIVE/MONITOR
- RADAR SYSTEM (FP) ACTIVE/MONITOR
- STAFF ENG (FP) (2ICM501) ACTIVE/MONITOR
- IMAGERY INTEGRATION (FP) ACTIVE/MONITOR
- ICOM (NDR-1 INTERNAL COMM) ACTIVE/MONITOR
- SHUTTLE WX COORD (KSC/CCAFS) ACTIVE/MONITOR
- NTD (OIS CH 232) MONITOR ONLY

PROVIDE THE FOLLOWING MISSION VOICE LOOPS AT EACH RADAR CONTROL BLDG (RCB) EI:
- IPC NET (2MPC111) ACTIVE/MONITOR
- RADAR SYS (FP) ACTIVE/MONITOR
- STAFF ENG (FP) (2ICM501) ACTIVE/MONITOR
- IMAGERY INTEGRATION (FP) ACTIVE/MONITOR
- ICOM (NDR-1 INTERNAL COMM) ACTIVE/MONITOR

CONTINUED

[PRD] DATABASE RECORD: 589899
ITEM NUMBER: KT156EK

NDR-3 AND NDR-4
- MISSION VOICE CONNECTIVITY FOR NDR-3 AND NDR-4 WILL BE ACCOMPLISHED BY AIR FORCE PERSONNEL VIA A RECURRING PROCEDURE.

PROVIDE PAGING
- STANDARD SINGLE STRING KSC PAGING SHALL BE PROVIDED INTO ALL BUILDINGS OF THE NDR SITE.

PROVIDE VIDEO
NDR-1
- TWO RGB VIDEO SIGNALS SHALL BE ROUTED FROM THE RADAR CONTROL BUILDING TO THE NDROC.
- A VIDEO SWITCH SHALL BE PROVIDED IN THE NDROC, WHICH WILL ACCEPT A MINIMUM OF 8 VIDEO INPUTS.
- THE VIDEO SWITCH SHALL PROVIDE RGB VIDEO TO NINE CONSOLES WITHIN THE NDROC.
- THE VIDEO SWITCH SHALL PROVIDE RGB VIDEO TO THREE PROJECTORS WITHIN THE NDROC. THE THIRD PROJECTOR WILL RECEIVE S-VIDEO FROM THE VIDEO SWITCH. EACH OF THE PROJECTORS SHALL BE CAPABLE OF DISPLAYING 1600 X 1200 VIDEO RESOLUTION WITH A MINIMUM OF 2000 ANSI LUMENS.
- THE VIDEO SWITCHER SHALL SUPPORT REMOTE SWITCHING/CONTROL FROM THE ETO CONSOLE IN THE NDROC.
- NASA SELECT VIDEO AND AUDIO SHALL BE PROVIDED IN THE NDROC VIA A PREVIOUSLY INSTALLED DIRECT TV FEED.

PROVIDE TIMING AND COUNTDOWN (REF. DBR 589958)
NDR-1
- PROVIDE GMT WITH DISPLAY IN THE NDROC AND RADAR CONTROL BUILDING. THE GMT DISPLAY SHALL HAVE A VISIBLE TIME LABEL.
- PROVIDE KSC SHUTTLE COUNTDOWN/MET WITH DISPLAY IS REQUIRED AT THE NDROC AND RADAR CONTROL BUILDING.
- PROVIDE FIRST MOTION AT THE NDROC AND THE RADAR CONTROL BUILDING.
- IF COST EFFECTIVE, THE DISTRIBUTION OF THESE SIGNALS MAY BE MULTIPLEXED.

NDR-3 AND NDR-4
- THE ONLY KICS SUPPORT CAN BE PROVIDED FOR NDR-3 AND NDR-4 IS TRANSMITTING THE SIGNALS TO A DEFINED INTERFACE.

CONTINUED

[PRD] DATABASE RECORD: 589899
ITEM NUMBER: KT156EK

POC: JSC/MS/TONY GRIFFITH/281 244-5813
KSC/PH-B/JOHN CREECH/321 867-4395

TECH CONTACT: KSC/MONIQUE MCLAMB/321 867-8540
KSC/KICS/ROD THORNTON/321 867-2241
ER/MIKE GAWEL/321 853-8118

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/02/06

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/02/06

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2710 - AIR/GROUND VOICE COMMUNICATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 253583 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/18/97
INITIAL DATE: 06/14/89
ITEM NUMBER: K1G DATE LAST CHANGED: 11/16/06
SECTION: 2710 TIME LAST CHANGED: 07:13:21

REQUESTER: KSC
SUBREQUESTER: KSC/IT-D2-A KSC/PH-L
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20009S 20017S
TRACKING NO. COMREV05 DB98 KING2001 L5216 R109-80
R2855 R8303
PRIORITY: MANDATORY
RATIONALE: ORBITER COMMUNICATION WITH GROUND

1. DESCRIPTION: ASTRO-COMM UPLINK. MILA IS REQUIRED TO TRANSMIT VOICE AS RECEIVED BY HARDLINE FROM THE KSC LCC UHF AND S-BAND VOICE INTERFACE VIA UHF AND S-BAND RF (A/G-1 AND A/G-2) TO THE ORBITER.

PRIME: KSC/PH-L/JEFF SPAULDING/321 861-9306
COMM CONTACT: KSC/IT-D2-A/MONIQUE MCLAMB/321 867-8540

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/18/97
RESPONSE TRACKING: GSFCREV06 Z2848 Z5217 Z8304

[PRD] DATABASE RECORD: 255833 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/18/97
INITIAL DATE: 06/14/89
ITEM NUMBER: K2G DATE LAST CHANGED: 11/16/06
SECTION: 2710 TIME LAST CHANGED: 07:13:21

REQUESTER: KSC
SUBREQUESTER: KSC/IT-D2-A KSC/PH-L
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20009S 20017S
TRACKING NO. COMREV05 DB98 KING2001 L5216 R109-80
R2855 R8303
PRIORITY: MANDATORY

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2710 - AIR/GROUND VOICE COMMUNICATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 255833
ITEM NUMBER: K2G

RATIONALE: ORBITER COMMUNICATION WITH GROUND

1. DESCRIPTION: ASTRO-COMM DOWNLINK. MILA IS REQUIRED TO TRANSMIT VOICE FROM THE ORBITER UHF AND S-BAND RF (A/G-1 AND A/G-2) TO THE KSC LCC UHF AND S-BAND VOICE INTERFACE NETWORK.

PRIME: KSC/PH-L/JEFF SPAULDING/321 861-9306

COMM CONTACT: KSC/PH-L/MONIQUE MCLAMB/IT-D2-A/321 867-8540

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/18/97
RESPONSE TRACKING: GSFCREV06 Z2848 Z5217 Z8304

[PRD] DATABASE RECORD: 265299 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/28/05
INITIAL DATE: 01/29/90
ITEM NUMBER: D8XZ DATE LAST CHANGED: 05/30/07
SECTION: 2710 TIME LAST CHANGED: 10:47:39

REQUESTER: HSFS
TEST CODE: EAFB S0027.001 STSALL WSSH

ASSOCIATED DOC: 20026S 20027S
TRACKING NO. COMREV05 KING2001 L3615 R0501-1 R0504-8
R109-80 R2809
PRIORITY: MANDATORY
RATIONALE: ORBITER COMMUNICATION WITH GROUND

1. DESCRIPTION: DOD SUPPORT AIRCRAFT; AIR-TO-GROUND (A/G) COMMUNICATIONS

PROVIDE A VHF/AM TUNEABLE TRANCEIVER IN THE WSSH CCV CAPABLE OF COMMUNICATION WITH AIRCRAFT ON 118.0 TO 139.9MHZ. RADIO TO BE INTERFACED TO AN AUDIO MATRIX FOR DISTRIBUTION TO SPECIFIED CONSOLES.

CONTINUED

[PRD] DATABASE RECORD: 265299
ITEM NUMBER: D8XZ

AT WSSH PROVIDE TWO UHF/AM TUNEABLE TRANCEIVERS IN THE WSSH CCV CAPABLE OF COMUNICATING WITH AIRCRAFT ON 218.0 TO 390.1MHZ. PROVIDE ONE TUNEABLE VHF TRANSCEIVER CAPABLE OF 138.450 AND 126.5 FREQUENCIES. THESE RADIOS WILL INTERFACE TO A AUDIO MATRIX FOR DISTRIBUTION TO SPECIFIED CONSOLES. THESE CAPABILITIES WILL BE DUPLICATED IN THE BACKUP VEHICLE.

ONE TUNEABLE VHF/AM TRANSCEIVER AND ONE TUNEABLE UHF/AM TRANSCEIVER ARE REQUIRED IN THE CONVOY COMMAND VEHICLES AT DFRC FOR THE DOD ON-SCENE COMMANDER (DOD OSC) TO COMMUNICATE WITH DOD SUPPORT AIRCRAFT.

POC: KSC/PH-L/LOU GARCIA/321 861-6196
HSFS-O/321 494-5116
WSTF/ZIGGY ZAPEN/505 524-5556

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/02/05
RESPONSE TRACKING: Z3612

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/14/05
RESPONSE TRACKING: Z0504-5 Z26146 Z3612

[PRD] DATABASE RECORD: 194871 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/14/89
INITIAL DATE: 06/14/89
ITEM NUMBER: K9G DATE LAST CHANGED: 11/16/06
SECTION: 2710 TIME LAST CHANGED: 07:13:17

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L
TEST CODE: STSALL
TRACKING NO. COMREV05 DB98 KING2001 R109-80 R2855
PRIORITY: MANDATORY

CONTINUED

[PRD] DATABASE RECORD: 194871
ITEM NUMBER: K9G

RATIONALE: FLT CREW SAFETY

1. DESCRIPTION: MILA IS REQUIRED TO PROVIDE THE CAPABILITY FOR THE LCC CONTROL ROOMS TO MONITOR ORBITER AIR-TO-GROUND VOICE COMMUNICATIONS GSFC GCN-1 (OIS CHANNEL 217) AND GSFC GCN-2 (OIS CHANNEL 218).

PRIME: KSC/PH-L/JEFF SPAULDING/321 861-9306
MILA OPS SUPV/321 867-1068

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/14/89
RESPONSE TRACKING: GSFCREV06 Z2848

[PRD] DATABASE RECORD: 198024 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/18/97
INITIAL DATE: 10/26/88
ITEM NUMBER: T10GK DATE LAST CHANGED: 01/23/07
SECTION: 2710 TIME LAST CHANGED: 08:17:37

REQUESTER: JSC
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20007S 20014S 20017S
TRACKING NO. COMREV05 KING2001 L2733 R109-80 R8303
PRIORITY: MANDATORY
RATIONALE: PRIMARY COMMUNICATION LINK - VOICE LOOP

1. DESCRIPTION: KSC IS REQUIRED TO EXTEND OIS-212 VIA ASTRO-COMM PANEL AG 1 TO MIL. GSFC IS REQUIRED TO EXTEND AG-1 FROM MIL TO JSC.

POC: KSC/PETE NICKOLENKO/PH-L/321 861-9317
JSC/DA8/MICHAEL SARAFIN/281 483-4775

COMM CONTACT: JSC/KEN JONES/281 483-7671
KSC/MONIQUE MCLAMB/321 867-8540

CONTINUED

[PRD] DATABASE RECORD: 198024
ITEM NUMBER: T10GK

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/18/97
RESPONSE TRACKING: Z2753 Z8304

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 KICS-105
RESPONDER: ELLEN HILL/321 861-2381

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/18/97
RESPONSE TRACKING: Z2753 Z8304

[PRD] DATABASE RECORD: 200211 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/18/97
INITIAL DATE: 10/26/88
ITEM NUMBER: T11G DATE LAST CHANGED: 01/23/07
SECTION: 2710 TIME LAST CHANGED: 08:18:37

REQUESTER: JSC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20017S
TRACKING NO. COMREV05 KING2001 L211-1 L2733 L5308
R109-80 R8303
PRIORITY: MANDATORY
RATIONALE: MANDATORY FOR VOICE COMMUNICATION

1. DESCRIPTION: JSC REQUIRES MILA/PDL A/G VOICE SUPPORT BOTH UHF AND S-BAND. PDL UHF WILL BE USED FOR PLUME ATTENUATION.

POC: JSC/DA8/MICHAEL SARAFIN/ 281 483-4775

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2710 - AIR/GROUND VOICE COMMUNICATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 200211
ITEM NUMBER: T11G

SUBSUPPLIER: I-PDL MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/18/97
RESPONSE TRACKING: GSFCREV06 Z2753 Z5308 Z8304

[PRD] DATABASE RECORD: 201116 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/18/97
INITIAL DATE: 04/23/91
ITEM NUMBER: T12G DATE LAST CHANGED: 11/16/06
SECTION: 2710 TIME LAST CHANGED: 07:13:18

REQUESTER: JSC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20017S
TRACKING NO. COMREV05 KING2001 L005-6 L102-2 L2733
L3530 L3902 L3960 L5216 L908-7
R109-80 R3422 R8303
PRIORITY: MANDATORY
RATIONALE: MANDATORY FOR VOICE COMMUNICATIONS

1. DESCRIPTION: REAL-TIME A/G VOICE (MILA)

A. MILA IS REQUIRED TO RECEIVE, RECORD AND REMOTE TO JSC DOWNLINKED VOICE FROM THE SSO. THE DOWNLINKED VOICE WILL BE IN A DIGITIZED FORMAT OF TWO CHANNELS OF 32 KB/S (HDR MODE) OR ONE CHANNEL OF 24 KB/S (LDR MODE). AT MILA THE DOWNLINK VOICE WILL BE DEMODULATED, CONVERTED TO AN ANALOG SIGNAL AND THE VOICE IS MONITORED AT THE STATION.

THE VOICE IS TIME-DIVISION-MULTIPLEXED ONBOARD WITH 128 KB/S OR 64 KB/S TELEMETRY, FORMING EITHER 192 KB/S HDR OR 96 KB/S LDR COMPOSITE BIT STREAM. MIL WILL TRANSMIT THE COMPOSITE DOWNLINK TO JSC, WHERE IT WILL BE DEMODULATED AND DISTRIBUTED.

B. THE UPLINK A/G VOICE (2-32 KB/S) CHANNELS FOR HIGH DATA RATE, OR 1-24 KB/S FOR LOW DATA RATE IS DIGITIZED AND MULTIPLEXED WITH COMMAND AND SYNC DATA (8 KB/S) AND ENCRYPTED AT JSC FOR TRANS-MISSION TO MILA IN A SINGLE 72 KB/S (HDR) OR 32 KB/S (LDR) STREAM

CONTINUED

[PRD] DATABASE RECORD: 201116
ITEM NUMBER: T12G

FOR ENCODING AND UPLINK TO THE SSO. AT MILA THE UPLINK IS MONITORED BY A VERIFICATION RECEIVER, DEMODULATED, CONVERTED TO AN ANALOG SIGNAL AND THE VOICE IS MONITORED AT THE STATION. A STATION COMM TECH IS REQUIRED IN SUPPORT OF JSC TO ANALYZE THE VOICE QUALITY AND TO PROVIDE EMERGENCY COMMUNICATION WITH THE ORBITER CREW IN THE EVENT THE JSC BECOMES INOPERABLE.

TECHNICAL CONTACTS: JSC/WAYNE HALE/281 483-0693
MILA/OPS SUPPORT/321 867-1068

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/18/97
RESPONSE TRACKING: GSFCREV06 Z2753 Z3476 Z3533 Z3541
Z39104 Z3941 Z5217 Z8304

[PRD] DATABASE RECORD: 372016 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/14/06
INITIAL DATE: 06/30/89
ITEM NUMBER: T14K DATE LAST CHANGED: 03/23/07
SECTION: 2710 TIME LAST CHANGED: 07:30:12

REQUESTER: JSC
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20028S
TRACKING NO. COMREV05 KING2001 L906-8 R109-80 R2809
R2886 SCRUB06
PRIORITY: MANDATORY
RATIONALE: FLT CREW SAFETY

1. DESCRIPTION: COMM BETWEEN RESCUE HELO'S AND HOSPITAL

PROVIDE INFLIGHT COMMUNICATIONS BETWEEN THE 4 DOD RESCUE HELICOPTERS AND THE SHANDS TEACHING HOSPITAL (DMCF).

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2710 - AIR/GROUND VOICE COMMUNICATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 372016
ITEM NUMBER: T14K

POC: KSC/DON DOERR/TA-C/321 867-6387

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/14/06
RESPONSE TRACKING: Z2869

[PRD] DATABASE RECORD: 520970 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/18/97
INITIAL DATE: 09/17/92
ITEM NUMBER: T16G DATE LAST CHANGED: 01/23/07
SECTION: 2710 TIME LAST CHANGED: 08:19:33

REQUESTER: JSC
SUBREQUESTER: JSC/DV
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20017S 20028S
TRACKING NO. COMREV05 KING2001 L209-3 L5202 L5216
R109-80 R8303
PRIORITY: MANDATORY
RATIONALE: VOICE COMMUNICATIONS

1. DESCRIPTION: UPLINK S-BAND/UHF DELAY MEASUREMENT CAPABILITY

AT PRELAUNCH, LAUNCH AND LANDING AT KSC, SIMULTANEOUS S-BAND AND UHF ARE

UPLINKED TO THE ORBITER. IN ORDER TO KEEP THE UHF AND S-BAND IN SYNC (NO ECHO), THE MILA UHF VERIFICATION RECEIVERS AND S-BAND DELTA MODULATION EQUIPMENT MUST BE USED TO EXTRACT THE SIMO ANALOG VOICE AND ROUTE THIS VOICE (VIA TWO IDENTICALLY ROUTED LONGLINES WITH E & M SIGNALLING) TO JSC FOR DELAY CORRECTION.

POC: JSC/DA8/MICHAEL SARAFIN/281 483-4775
MILA/OPS MGR/321 867-1068

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2710 - AIR/GROUND VOICE COMMUNICATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 520970
ITEM NUMBER: T16G

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/18/97
RESPONSE TRACKING: GSFCREV06 Z5215 Z5217 Z8304

[PRD] DATABASE RECORD: 589317 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/15/06
INITIAL DATE: 09/15/06
ITEM NUMBER: T17GX DATE LAST CHANGED: 03/20/07
SECTION: 2710 TIME LAST CHANGED: 08:13:29

REQUESTER: JSC
TEST CODE: DFRC STSALL

ASSOCIATED DOC: 20026S 20027S
TRACKING NO. R0609-7

1. DESCRIPTION: BACKUP AIR-TO-GROUND UHF

GSFC/GN AND DFRC ARE TO PROVIDE A BACKUP UHF CIRCUIT WITH KEYING CAPABLILITY FOR LAUNCH AND LANDING.

POC: GSFC/AL DUANY/301 286-2721

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/21/06

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/27/06

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2730 - VOICE NETWORK TRANSMISSION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 292988 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/18/97
INITIAL DATE: 06/14/89
ITEM NUMBER: K1G DATE LAST CHANGED: 11/16/06
SECTION: 2730 TIME LAST CHANGED: 07:13:22

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L
TEST CODE: JSC KSC STSALL
TRACKING NO. DB98 KING2001 L5216 R109-8 R2865
R8303
PRIORITY: MANDATORY
RATIONALE: ASTRONAUT PRE-FLIGHT COMMUNICATION. BACKUP TO AIR TO GROUND.

1. DESCRIPTION: PROVIDE LONGLINES FOR TRANSMISSION OF ICOM-A (OIS-214) & ICOM-B (OIS-215) FROM KSC TO JSC (REF FLT PRD).

PRIME: KSC/PH-L/JEFF SPAULDING/321 861-9306

COMM CONTACT: KSC/IT-D2-A/MONIQUE MCLAMB/321 867-8540

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/18/97
RESPONSE TRACKING: Z2856 Z5217 Z8304

[PRD] DATABASE RECORD: 306717 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/01/02
INITIAL DATE: 06/14/89
ITEM NUMBER: K2G DATE LAST CHANGED: 11/16/06
SECTION: 2730 TIME LAST CHANGED: 07:13:22

REQUESTER: KSC
SUBREQUESTER: I-MIL KSC/PH-L
TEST CODE: JSC KSC STSALL
TRACKING NO. COMREV05 DB98 KING2001 L113-2 L5216
R109-8 R2865 R8303
PRIORITY: MANDATORY
RATIONALE: ASTRONAUT AIR TO GROUND COMMUNICATIONS.

1. DESCRIPTION: PROVIDE LONGLINE FOR TRANSMISSION OF ORB UHF FROM KSC TO JSC VIA GSFC (REF FLT PRD).

CONTINUED

[PRD] DATABASE RECORD: 306717
ITEM NUMBER: K2G

PRIME: KSC/PH-L/JEFF SPAULDING/321 861-9306
COMM CONTACT: KSC/IT-D2-A/MONIQUE MCLAMB/321 867-8540

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/01/02
RESPONSE TRACKING: Z113-6 Z2856 Z5217 Z8304

[PRD] DATABASE RECORD: 333666 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/20/90
INITIAL DATE: 05/01/90
ITEM NUMBER: T3G DATE LAST CHANGED: 11/16/06
SECTION: 2730 TIME LAST CHANGED: 07:13:24

REQUESTER: JSC
SUBREQUESTER: I-PH-B JSC/DM JSC/WS8
TEST CODE: DFRC EAFB JSC STSALL

ASSOCIATED DOC: 20007S 20026S
TRACKING NO. COMREV05 KING2001 L2733 L3521 L507-4
SHAW95
PRIORITY: REQUIRED
RATIONALE: BECOMES MANDATORY IF LANDING AT DFRC.

1. DESCRIPTION: AIRBORNE WEATHER UHF-DFRC

A LONGLINE IS REQUIRED (MCC/DFRC) TO CARRY AIRBORNE
WEATHER UHF VOICE DURING END-OF-MISSION PHASES
INVOLVING DFRC.

POC: JSC/DM/MARTY LINDE/281 483-1943

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2730 - VOICE NETWORK TRANSMISSION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 333666
ITEM NUMBER: T3G

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/01/95
RESPONSE TRACKING: Z2753 Z3563 Z6918

[PRD] DATABASE RECORD:	13803	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	LLS	APPROVAL DATE:	07/07/05
		INITIAL DATE:	09/20/91
ITEM NUMBER:	DK5G	DATE LAST CHANGED:	11/16/06
SECTION:	2730	TIME LAST CHANGED:	07:13:12

REQUESTER:	HSFS	KSC			
SUBREQUESTER:	I-PH-B	KSC/PH-L			
TEST CODE:	ISTRES	KSC	MORON	STSALL	
	TAL	ZARAGOZA			
ASSOCIATED DOC:	20007S	20029S	20057S	20070S	
TRACKING NO.	COMREV05	DB98	KING2001	L04-5-1	L114-3
	L2707	L2726	L3846	R0405-2	R109-8
	R2656	R4407			
PRIORITY:	MANDATORY				
RATIONALE:	REQUIRED FOR COMMUNICATIONS TO OVERSEAS THROUGH THE INMARSAT.				

1. DESCRIPTION: VOICE/DATA CIRCUITS

A. KSC REQUIRES 6 EACH 4 WIRE FULL DUPLEX CIRCUITS FROM THE INMARSAT EARTH STATION IN SOUTHBURY, CT TO GSFC. THREE OF THESE CIRCUITS WILL BE USED TO PROVIDE THREE EACH COMM LINKS TO/FROM ALL THREE OF THE TAL SITES (ZARAGOZA, MORON, ISTRES) USING THE "INMARSAT" SATELLITE SYSTEM.

TITLES OF THE CIRCUITS ARE:

1. TAL A LANDING FIELD
2. TAL A WEATHER OBSERVER
3. TAL A AIRCRAFT/ORBITER
4. TAL B LANDING FIELD
5. TAL B WEATHER OBSERVER
6. TAL B AIRCRAFT/ORBITER
7. TAL C LANDING FIELD
8. TAL C WEATHER OBSERVER
9. TAL C AIRCRAFT/ORBITER
10. INMARSAT COORD. (REQUIRES SIGNALING CAPABILITY)
11. SPARE
12. STATUS LINK

CONTINUED

[PRD] DATABASE RECORD: 13803
ITEM NUMBER: DK5G

B. KSC REQUIRES 6 EACH 4 WIRE FULL DUPLEX CIRCUITS FROM GSFC TO KSC.

CIRCUIT #1 IS TO BE A BRIDGED (AT INMARSAT EARTH STATION) FEED OF ITEMS 1,4 & 7 ABOVE AND WILL BE TITLED "TAL LANDING FIELD".
CIRCUIT #2 IS TO BE A BRIDGED (AT INMARSAT EARTH STATION) FEED OF ITEMS 2,5 & 8 ABOVE AND WILL BE TITLED "TAL WEATHER OBSERVER".

CIRCUIT #3 IS TO BE A BRIDGED (AT INMARSAT EARTH STATION) FEED OF ITEMS 3,6 & 9 ABOVE AND WILL BE TITLED "TAL AIRCRAFT/ ORBITER".

CIRCUIT #4 WILL BE AN EXTENSION OF ITEM #10 ABOVE. TITLE IS INMARSAT COORD.

CIRCUIT #5 IS TO BE A SPARE,IN CASE ONE OF THE ABOVE CIRCUITS FAILS.

CIRCUIT #6 IS A STATUS LINK.

C. KSC REQUIRES 3 EACH 4 WIRE FULL DUPLEX CIRCUITS FROM KSC TO JSC. CIRCUIT TITLES/FUNCTIONS ARE THE SAME AS CIRCUITS 1-3 IN ITEM B.

D. DOD REQUIRES 1 EACH 4 WIRE FULL DUPLEX CIRCUIT FROM JSC TO ER. CIRCUIT TITLE IS "DDMS AIRCRAFT/ORB" (REF SECT 2750 ITEM DT179.3T, DBR #013789) SEE NOTE.

NOTE: THIS IS AN EXTENSION OF TAL AIRCRAFT/ORB CIRCUIT FROM JSC TO ER. THE NAME CHANGE REQUESTED BY JSC TO PROVIDE KEYING CONTROL AT JSC.

PRIME: KSC/PH-L/GLEN LOCKWOOD/321 861-9310

TECHNICAL CONTACT: WILLIAM MERRILL/IT-D2-A/321 861-2268
DDMS-O/321 494-2143

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2730 - VOICE NETWORK TRANSMISSION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 13803
ITEM NUMBER: DK5G

RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/03/05
RESPONSE TRACKING: Z2647 Z2750 Z4413

[PRD] DATABASE RECORD: 14617 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/06/05
INITIAL DATE: 03/13/91
ITEM NUMBER: T8G DATE LAST CHANGED: 01/16/07
SECTION: 2730 TIME LAST CHANGED: 09:30:35

REQUESTER: JSC
SUBREQUESTER: JSC/AP JSC/MG
TEST CODE: EAFB JSC KSC RTLS
STSALL SUPSIM TVPLAN WSSH

ASSOCIATED DOC: 20007S 20014S 20017S 20026S
20027S 20028S
TRACKING NO. COMREV05 KING2001 L02-7-4 L04-3-4 L04-8-1
L2604 L2733 L3714 L3902 L6201
R0403-6 R0501-1 R109-18 R109-8 R112-6
R26121 R26173 R26242
PRIORITY: REQUIRED
RATIONALE: MISSION BRIEFING/INFO

1. DESCRIPTION: MISSION AUDIO VIA SATELLITE

RESPONSIBLE AGENCY: GSFC

PROVIDE AN UNPROTECTED, HALF-DUPLEX, 15KHZ POINT-TO-MULTIPOINT BROADCAST QUALITY AMERICAN GOVERMENT SERVICES (AGS) SATELLITE TRANSMISSION FOR MISSION AUDIO. THIS REQUIREMENT IS FOR CONTINUOUS (24 HOUR/DAY) SERVICE WITH ORIGIN AT JSC AND RECEIVE ONLY CAPABILITY AT GSFC, KSC, MSFC, DFRC, AND JPL. RECEIVE-BACK MONITOR IS REQUIRED AT JSC.

DOWNLINK SERVICES FOR WSSH/WSMR IS EXTENDED FROM GSFC TO WSC.

POC: JSC/MO3-USA/RAY BANKS/281 280-6971

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2730 - VOICE NETWORK TRANSMISSION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 14617
ITEM NUMBER: T8G

JSC/AP/JOHN STOLL/281 483-0769

COMM CONTACT: JSC/KEN JONES/281 483-7671
GSFC/AL DUANY/301 286-2721

REFERENCE: LLS 2750, ITEM T98.1T, DBR 209413

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/06/05
RESPONSE TRACKING: 26152 Z0404-2 Z0501-1 Z109-8 Z112-11
Z2647 Z2697 Z2753 Z3713 Z3941
Z6201

[PRD] DATABASE RECORD: 16951 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/14/05
INITIAL DATE: 12/08/88
ITEM NUMBER: T12EGT DATE LAST CHANGED: 12/18/06
SECTION: 2730 TIME LAST CHANGED: 09:36:28

REQUESTER: JSC
SUBREQUESTER: JSC/DV JSC/MG
TEST CODE: S0027.001 STSALL WSSH

ASSOCIATED DOC: 20007S 20027S
TRACKING NO. COMREV05 KING2001 L02-7-4 R0501-1 R0504-8
R109-8 R112-6 R2901
PRIORITY: REQUIRED
RATIONALE: BECOMES MANDATORY IF LANDING AS WSSH.

1. DESCRIPTION: WEATHER AIR/GROUND CIRCUIT FROM JSC TO WSC/WSSH

A FOUR-WIRE VOICE CIRCUIT IS REQUIRED BETWEEN THE MCC WEATHER CAPCOM CONSOLE AND WSSH FOR CONVERSATIONS WITH THE WEATHER AIRCRAFT. THE WEATHER AIR/GROUND VHF CIRCUIT WILL BE CONFIGURED TO 126.5 MHZ. THIS IS A SHARED CIRCUIT WITH AIR BOSS (138.450). WEHATER A/G WILL ACITIVATE AT DAY OF LAUNCH AND REMAIN ACTIVE UNTIL WHEEL STOP. GSFC IS REQUESTED TO PROVIDE A SEPARATE CIRCUIT FOR THIS PURPOSE FROM JSC TO WSC/WSSH VIA GSFC.

CONTINUED

[PRD] DATABASE RECORD: 16951
ITEM NUMBER: T12EGT

TECHNICAL CONTACT: JSC/DV/JOE AQUINO/281 483-4033

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/09/05
RESPONSE TRACKING: Z2950

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: WSTF/WSSH
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/14/05
RESPONSE TRACKING: Z0501-1 Z112-11 Z2961

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/19/05
RESPONSE TRACKING: Z0501-1 Z112-6 Z2901 Z2931 Z2934
Z2972

[PRD] DATABASE RECORD: 21805 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/07/03
INITIAL DATE: 04/23/90
ITEM NUMBER: H13G DATE LAST CHANGED: 11/16/06
SECTION: 2730 TIME LAST CHANGED: 07:13:16

REQUESTER: MSFC
SUBREQUESTER: MS089 MS140 MS142 MS208
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 KING2001 L3141 L4406 L5502
L5523 ML009-90 R03-04-3 R109-5 R109-8
R7006

CONTINUED

[PRD] DATABASE RECORD: 21805
ITEM NUMBER: H13G

PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: 56KB VOICE CIRCUITS, MSFC TO ROCKETDYNE
CANOGA PARK, CA

PROVIDE THREE (3) FULLTIME 56KB CIRCUITS (FOR VOICE COMM) FROM MSFC
TO ROCKETDYNE OPERATIONS SUPPORT CENTER, BUILDING 43.

TECH CONTACTS: MSFC/TDB
ROCKETDYNE/BRAD ELIAS/818 586-4970

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/18/05
RESPONSE TRACKING: Z035-1 Z0501-3 Z109-8 Z3575 Z3854
Z3927 Z4438 Z5501 Z5524 Z7104
Z7105

[PRD] DATABASE RECORD: 517462 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/19/93
INITIAL DATE: 11/11/91
ITEM NUMBER: H13.2G DATE LAST CHANGED: 01/16/07
SECTION: 2730 TIME LAST CHANGED: 09:34:27

REQUESTER: MSFC
SUBREQUESTER: MS092 MS100 MS130 MS140
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 KING2001 L4415 L4609 L5502
R109-8 R4215
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: 56KB VOICE CIRCUIT,MSFC TO THIOKOL BRIGHAM CITY UTAH

PROVIDE A FULLTIME 56KB CIRCUIT (FOR VOICE COMM) FROM MSFC
TO THIOKOL, UTAH MIC (MGT INFO CENTER) #1, BLDG A2.

CONTINUED

[PRD] DATABASE RECORD: 517462
ITEM NUMBER: H13.2G

CONTACTS: MSFC/PHILIP CAUTHEN/256 544-4204
GSFC/731/SEATON NORMAN/301 286-8676
THI/BRIGHAM CITY/SYD HENDERSON/435 863-3261

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/19/93
RESPONSE TRACKING: Z4205 Z4222 Z4459 Z4612 Z5501

[PRD] DATABASE RECORD: 518860 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/19/93
INITIAL DATE: 02/27/92
ITEM NUMBER: H13.5G DATE LAST CHANGED: 01/16/07
SECTION: 2730 TIME LAST CHANGED: 09:35:17

REQUESTER: MSFC
SUBREQUESTER: MS140
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 KING2001 L5502 R109-8 R4509
RSRR108
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: 56KB VOICE CIRCUIT - MSFC TO USA BLDG

PROVIDE A FULL-TIME 56KB CIRCUIT (FOR VOICE COMM)
FROM MSFC TO USA BLDG. RM 128A
555 DISCOVERY DRIVE, HUNTSVILLE, AL.

TECH CONTACT: MSFC/PHILIP CAUTHEN/256 544-4202
GSFC/731/SEATON NORMAN/301 286-8676
MSFC/USA/RUDY HAYES/256-971-2678

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)

CONTINUED

[PRD] DATABASE RECORD: 518860
ITEM NUMBER: H13.5G

RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/19/93
RESPONSE TRACKING: Z4521 Z5501

[PRD] DATABASE RECORD: 22681 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/12/95
INITIAL DATE: 07/18/90
ITEM NUMBER: T14G DATE LAST CHANGED: 11/16/06
SECTION: 2730 TIME LAST CHANGED: 07:13:16

REQUESTER: JSC
SUBREQUESTER: JSC/CA4
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 KING2001 L006-5 L3823 L501-1
L6301 L6710 R109-8 SHAW95
PRIORITY: REQUIRED
RATIONALE: FCOD SUPPORT

1. DESCRIPTION: FCOD OPS COMMUNICATION

GSFC TO PROVIDE A CIRCUIT FROM KSC TO JSC/MCC FOR FCOD OPS.

REF: SECT 2750 ITEM T148.1K & T148.2T DBR 022421 & 022422

TECH CONTACT: KSC/KICS-105/ROD THORNTON/321 867-2241
JSC/CA4/ROBERT HANLY/281 244-8654

COMM CONTACT: JSC/DV/KEN JONES/281 483-7671

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/28/95
RESPONSE TRACKING: Z3839 Z6715

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2730 - VOICE NETWORK TRANSMISSION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 528059 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/07/94
INITIAL DATE: 09/07/94
ITEM NUMBER: EK15G DATE LAST CHANGED: 01/16/07
SECTION: 2730 TIME LAST CHANGED: 09:40:58

REQUESTER: ER KSC
SUBREQUESTER: ER TA-E
TEST CODE: ALPHSE KSC ORBIT STSALL

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
TRACKING NO. COMREV05 DB98 KING2001 L6824 R109-8
R8402
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR COORDINATING NETWORK REQUIREMENTS BETWEEN ER AND GSFC.

1. DESCRIPTION: LEAD RANGE COORD NET (LRC)

A VOICE CIRCUIT IS REQUIRED (ER/GSFC) FOR COORDINATING NETWORK REQUIREMENTS/TRACKING/ STATUS/RELEASE.

REFERENCE: LLS2750 ITEM EGK64.4EG DBR 184684

CONTACTS: ER: ALEX CARAZO/321 853-8650
KSC: WILLIAM HAASE/321-494-9163
GSFC: AL DUANY/301 286-2721

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/07/94
RESPONSE TRACKING: Z6825

[PRD] DATABASE RECORD: 530538 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/14/05
INITIAL DATE: 07/28/95
ITEM NUMBER: KT16EGKZ DATE LAST CHANGED: 05/31/07
SECTION: 2730 TIME LAST CHANGED: 09:56:23

REQUESTER: KSC JSC
SUBREQUESTER: JSC/MG KSC/PH-L

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2730 - VOICE NETWORK TRANSMISSION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 530538
ITEM NUMBER: KT16EGKZ

TEST CODE: INFO STSALL WSSH

ASSOCIATED DOC: 20027S 25044S
TRACKING NO. COMREV05 KING2001 L02-7-4 L507-2 L8108
R0501-1 R0501-1A R0504-8 R109-8 R112-6
PRIORITY: MANDATORY
RATIONALE: LANDING FIELD COMMAND & CONTROL. HEAVILY USED & DEDICATED.

1. DESCRIPTION: WSSH VOICE REQUIREMENTS

NISN WILL MAKE THE FOLLOWING GENERAL SET OF CIRCUITRY AVAILABLE BETWEEN KSC/JSC via GSFC AND WHITE SANDS SPACE HARBOR AND WHITE SAND MISSILE RANGE COMM WSMR FROM LAUNCH MINUS 18 HOURS THROUGH ANY REQUIRED LANDING/DESERVICE SUPPORT.

THERE ARE 19 CIRCUITS AVAILABLE AND CIRCUIT ASSIGNMENT MAY VARY DEPENDING ON THE SPECIFIC MISSION REQUIREMENTS.

VOICE CONFIGURATION	NOTE
A/G 1	
A/G 2	
A/G UHF	
A/G UHF (BACKUP)	
MISSION COMM COORD/WSMR COMM COORD	
CONVOY COMMANDER	
COOLING NET	
HSFS COORD	1
FLIGHT DIRECTOR	2
GSFC/MSFC COORD	
LANDING FIELD PRIME 1	3
LANDING FIELD PRIME 2	4
LANDING RECOVERY DIRECTOR (LRD)	
MISSION AUDIO	
PURGE NET	
SITE COORD	
SURGEON	
TRACK COORD	5

CONTINUED

[PRD] DATABASE RECORD: 530538
ITEM NUMBER: KT16EGKZ

VHF (AIRBORNE) WEATHER NET 6

NOTE: THE FOLLOWING CONFIGURATION IS WSSH RESPONSIBILITY.
1. AT LANDING +6 HOURS SWITCH TO EPDC VOICE LOOP.
2. AT VEHICLE HANDOVER SWITCH TO TPE VOICE LOOP.
3. AT LANDING +24 HOURS SWITCH TO CRANE OPS VOICE LOOP.
4. AT HANDOVER SWITCH TO PRSD VOICE LOOP.
5. AT HANDOVER SWITCH TO MPS VOICE LOOP.
6. AT WHEEL STOP -1 HOUR SWITCH TO EMS COORD.

PRIME: KSC/PH-L/LOU GARCIA/321 861-6196
TECHNICAL POINT OF CONTACT: WSTF/ZIGGY ZAPEN/505 524-5556

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540
JSC/KEN JONES/281 483-7671

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 04/14/05
RESPONSE TRACKING: Z0501-1 Z112-6 Z7312 Z8134

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: WSTF/WSSH
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 04/14/05
RESPONSE TRACKING: Z0501-1 Z112-6 Z8134

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-B KICS-105
RESPONDER: ELLEN HILL/321 861-2381

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 04/14/05
RESPONSE TRACKING: Z0501-1 Z112-6 Z8134

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)

CONTINUED

[PRD] DATABASE RECORD: 530538
ITEM NUMBER: KT16EGKZ

RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 04/14/05
RESPONSE TRACKING: Z0504-5

[PRD] DATABASE RECORD: 531101 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/08/95
INITIAL DATE: 11/08/95
ITEM NUMBER: H17G DATE LAST CHANGED: 11/16/06
SECTION: 2730 TIME LAST CHANGED: 07:13:27

REQUESTER: MSFC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 KING2001 L7304 L7406 R109-8
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: 56KB VOICE CIRCUIT MSFC TO PRATT & WHITNEY

PROVIDE A FULLTIME 56KB CIRCUIT (FOR VOICE COMM) FROM MSFC
TO THE PRATT-WHITNEY LAUNCH MONITORING ROOM AT 17900 BEELINE HWY.,
JUPITER, FL. 33478, ADMINISTRATION BLDG. ROOM 136.

TECHNICAL CONTACTS: MSFC/EO60/PHILIP CAUTHEN/256 544-4204
GSFC/731/SEATON NORMAN/301 286-8676
P&W/DAN GULSINGER/321 796-4223

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/08/95
RESPONSE TRACKING: GSFCREV06 Z7411

[PRD] DATABASE RECORD: 533521 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/29/96
INITIAL DATE: 06/17/96
ITEM NUMBER: H18G DATE LAST CHANGED: 11/16/06
SECTION: 2730 TIME LAST CHANGED: 07:13:27

CONTINUED

[PRD] DATABASE RECORD: 533521
ITEM NUMBER: H18G

REQUESTER: MSFC
SUBREQUESTER: MS245 MS246
TEST CODE: STSALL
TRACKING NO. COMREV05 KING2001 L7805 R109-8
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: 56 KB VOICE CIRCUIT FOR HVODS FROM MSFC TO MICHOUD, LA.

PROVIDE A FULLTIME 56 KB CIRCUIT (FOR VOICE) FROM MSFC
TO MICHOUD, LA., BLDG. 101, 2ND FLOOR, COL. EC34.

NOTE: 56KB CIRCUIT SUPPORTS 2 HVODS UNITS IN THE MISSION SUPPORT ROOM.
APPROVED BY ET PROJECT OFFICE TO REMAIN FOLLOWING IMPLEMENTATION/

ACCEPTANCE OF ITEM H20G HEREIN.

TECH CONTACTS: MSFC/EO60/PHILIP CAUTHEN/256 544-4204
MICHOUD/RALPH STEPHAN/504-257-4771

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/13/97
RESPONSE TRACKING: Z9415

[PRD] DATABASE RECORD: 539429 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/14/97
INITIAL DATE: 07/14/97
ITEM NUMBER: H19G DATE LAST CHANGED: 01/16/07
SECTION: 2730 TIME LAST CHANGED: 09:41:40

REQUESTER: MSFC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. COMREV05 KING2001 L8501 M070602 R109-8
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2730 - VOICE NETWORK TRANSMISSION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 539429
ITEM NUMBER: H19G

1. DESCRIPTION: 56KB VOICE CIRCUIT MSFC TO HONEYWELL CORP.

PROVIDE A 56KB VOICE CIRCUIT FROM MSFC TO HONEYWELL CORP., CLEARWATER, FL BEAM K-8.

TECH CONTACT: MSFC/EO60/PHILIP CAUTHEN/256 544-5774
HONEYWELL ROCKETDYNE RESIDENT/TOM KILIONSKI/727-539-2602

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/22/97
RESPONSE TRACKING: Z8504

[PRD] DATABASE RECORD: 554132 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/13/00
INITIAL DATE: 01/13/00
ITEM NUMBER: H20G DATE LAST CHANGED: 11/16/06
SECTION: 2730 TIME LAST CHANGED: 07:13:27

REQUESTER: MSFC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20008S 20009S 20017S
20024S 25009S
TRACKING NO. KING2001 L9904 R109-8
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION:
A CHANNELIZED T1 IS REQUIRED FROM MSFC TO THE MICHOUD MISSION SUPPORT ROOM (MSR).

TERMINATION POINTS:
MSFC: DSX PATCH PANEL AT MSFC NISN POINT OF PRESENCE (POP)

POC: MSFC/EO60/PHILIP CAUTHEN/256 544-4204

CONTINUED

[PRD] DATABASE RECORD: 554132
ITEM NUMBER: H20G

MICHOUD: BUILDING 102, SECOND FLOOR, ROOM Y8,
13800 OLD GENTILLY RD.
NEW ORLEANS, LA 70129

POC: DEBORAH GAUDIN/504-257-1019

NOTE: T1 CIRCUIT SUPPORTS COMPUNETIX VOICE SWITCH. 56 KB VOICE CIRCUIT TO REMAIN TO SUPPORT HVODS UNITS IN THE MSR.

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/19/00
RESPONSE TRACKING: Z9909

[PRD] DATABASE RECORD: 554222 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/21/00
INITIAL DATE: 01/21/00
ITEM NUMBER: H21G DATE LAST CHANGED: 12/01/05
SECTION: 2730 TIME LAST CHANGED: 08:42:02

REQUESTER: MSFC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20008S 20009S 20017S
20024S 25009S
TRACKING NO. COMREV05 HSTSLL02 KING2001 L9905 R109-8
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: HOSC/MICHOUD STS COUNTDOWN TIME

A 19.2 KBPS SYNCHRONOUS CIRCUIT IS REQUIRED FOR THE TRANSMISSION OF COUNTDOWN TIME FROM THE MSFC HOSC TO MICHOUD.

TERMINATION POINTS:

POC: MSFC/EO60/PHILIP CAUTHEN/256 544-4204

MICHOUD: BUILDING 102, 2ND FLOOR, ROOM Y8

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2730 - VOICE NETWORK TRANSMISSION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 554222
ITEM NUMBER: H21G

13800 OLD GENTILLY RD
NEW ORLEANS, LA 70129

POC: DEBORAH GAUDIN/504-257-1019

SUPPLIER: GSFC AGENCY: GSFC/450.3 (G - GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/31/00
RESPONSE TRACKING: Z9911

[PRD] DATABASE RECORD: 560936 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/09/03
INITIAL DATE: 10/22/01
ITEM NUMBER: HK22G DATE LAST CHANGED: 11/16/06
SECTION: 2730 TIME LAST CHANGED: 07:13:27

REQUESTER: MSFC KSC
SUBREQUESTER: JSC/MV USA-HQ
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20017S 20037S
TRACKING NO. COMREV05 KING2001 L02-7-4 R0312-1 R108-7
R112-6
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: SPACE FLIGHT OPERATIONS CONTRACT MANAGEMENT COORD.

GSFC TO PROVIDE A CIRCUIT FROM KSC TO MSFC/HOSC FOR
SFOC MANAGEMENT COORD. MSFC HOSC WILL PROVIDE ROUTING TO JSC.

REFERENCE: SECTION 2750, ITEM T219KT, DBR 560934
SECTION 2750, ITEM T219.1KT, DBR 560935
SECTION 2750, ITEM T219.2HKT, DBR 560937

POINT OF CONTACT: MSFC/EO60/PHILIP CAUTHEN/256-544-4204

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2730 - VOICE NETWORK TRANSMISSION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 560936
ITEM NUMBER: HK22G

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/12/03
RESPONSE TRACKING: Z0312-4 Z112-11

[PRD] DATABASE RECORD: 580765 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/09/05
INITIAL DATE: 03/09/05
ITEM NUMBER: KTY24E DATE LAST CHANGED: 12/14/05
SECTION: 2730 TIME LAST CHANGED: 09:18:27

REQUESTER: KSC JSC NASA HQ
SUBREQUESTER: JSC PH
TEST CODE: LAUNCH PREFLT STSALL TVPLAN

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 R0504-7

1. DESCRIPTION: VOICE REQUIREMENTS FOR ET TV VIDEO SUPPORT

REPONSIBLE AGENCY: ER

THE ER IS RESPONSIBLE FOR EXTENDING OF THE TV CONFERENCE (T/L) AND MISSION AUDIO IN THE MONITOR MODE TO JDMTA.

TECHNICAL CONTACT: ER/MIKE GAWEL/321 853-8118

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/14/05

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2734 - VIDEO/DATA NETWORK TRANSMISSION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 211260 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/19/97
INITIAL DATE: 10/26/88
ITEM NUMBER: T1G DATE LAST CHANGED: 11/16/06
SECTION: 2734 TIME LAST CHANGED: 07:13:18

REQUESTER: JSC
TEST CODE: EAFB GSFC STSALL

ASSOCIATED DOC: 20007S 20014S 20017S 20026S
20028S
TRACKING NO. COMREV05 KING2001 L2733 R109-29 R8304
PRIORITY: MANDATORY
RATIONALE: MISSION SUCCESS

1. DESCRIPTION: COMMAND AND TLM SUPPORT - GSFC TO MILA

PROVIDE TWO 224 KB/S LONGLINES, GSFC TO MILA,
FOR COMMAND AND TLM SUPPORT (REF FLT PRD).

POC: JSC/JAY LIPFORD/281 483-4455
KSC/MILA OPS MGR/321 867-1068

REFERENCE: FLS 2200, ITEM T1G, DBR 353724
FLS 2300, ITEM T22G, DBR 227549

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/19/97
RESPONSE TRACKING: GSFCREV06 Z2753 Z8305

[PRD] DATABASE RECORD: 212876 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/23/07
INITIAL DATE: 08/08/89
ITEM NUMBER: T2G DATE LAST CHANGED: 02/13/07
SECTION: 2734 TIME LAST CHANGED: 12:44:29

REQUESTER: JSC
TEST CODE: EAFB GSFC JSC STSALL
T1

ASSOCIATED DOC: 20007S 20014S 20017S 20026S

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2734 - VIDEO/DATA NETWORK TRANSMISSION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 212876
ITEM NUMBER: T2G

	20028S				
TRACKING NO.	COMREV05	KING2001	L07-1-1	L210-1	L2733
	L5309	L908-7	R0701-6	R109-29	R114-2
	R3411	R8304			

PRIORITY: MANDATORY
RATIONALE: MISSION SUCCESS

1. DESCRIPTION: PROVIDE SUFFICIENT BANDWIDTH FOR GSFC TO JSC AND JSC TO GSFC FOR COMMAND AND TELEMETRY SUPPORT.

COMM CONTACT: JSC/DV/JAMES LIPFORD/281 483-4455

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/13/07
RESPONSE:

RESPONSE TRACKING:	Z0505-3	Z2753	Z3431	Z5310	Z8305

[PRD] DATABASE RECORD: 316519 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/02/90
INITIAL DATE: 05/02/90
ITEM NUMBER: K4G DATE LAST CHANGED: 03/22/07
SECTION: 2734 TIME LAST CHANGED: 09:17:27

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L
TEST CODE: EAFB KSC STSALL

ASSOCIATED DOC:	20026S				
TRACKING NO.	COMREV05	DB98	KING2001	L3514	R109-29
	R2865				

PRIORITY: MANDATORY
RATIONALE: ENGINEERING SUPPORT FROM KSC

1. DESCRIPTION: S-BAND TELEMETRY DFRC TO KSC

PROVIDE A T1 DATA CIRCUIT FOR TRANSMISSION OF TELEMETRY DATA

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2734 - VIDEO/DATA NETWORK TRANSMISSION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 316519
ITEM NUMBER: K4G

AS INDICATED BELOW DURING TURNAROUND ACTIVITIES (LANDING) AT DFRC (S5002).

REF	TYPE OF SERVICE	FROM	TO	REMARKS
K4.1	TLM DATA	DFRC	KSC	VIA GSFC/MILA

PRIME: KSC/PH-L/DEAN SCHAAF/321 861-9311

TECHNICAL CONTACT: KSC/USK-426/MIKE KUTA/321 861-3980
DFRC/GEORGE GRIMSHAW/661 276-3425

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/02/90
RESPONSE TRACKING: GSFCREV06 Z2856 Z3524

[PRD] DATABASE RECORD: 3533 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/10/94
INITIAL DATE: 06/01/83
ITEM NUMBER: T7G DATE LAST CHANGED: 11/16/06
SECTION: 2734 TIME LAST CHANGED: 07:13:10

REQUESTER: JSC
TEST CODE: EAFB JSC KSC STSALL
SUPSIM TVPLAN

ASSOCIATED DOC: 20007S 20014S 20017S 20026S
20028S

TRACKING NO.	COMREV05	KING2001	L102-2	L111-17	L111-5
	L212-1	L2604	L2733	L2930	L3902
	L406-1	L4413	L4435	L5409	L6201
	L6505	L902-3	L908-7	R109-29	R26122
	R26173	R3411			

PRIORITY: MANDATORY
RATIONALE: MISSION SUCCESS

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2734 - VIDEO/DATA NETWORK TRANSMISSION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 3533
ITEM NUMBER: T7G

1. DESCRIPTION: TELEVISION SATELLITE SERVICE

PROVIDE A SATELLITE POINT-TO-MULTIPOINT TELEVISION CIRCUIT FOR DISTRIBUTION OF NASA SELECT TELEVISION OF LAUNCHES AND LANDINGS AT KSC AND LANDINGS AT EDWARDS AFB.

EVENT	TRANSMIT SITE	RECEIVE SITES
KSC LAUNCH/LANDING	KSC	JSC, MSFC, DFRC, GSFC, AND NASA HQ.
EDWARDS AFB LANDING	DFRC	JSC, KSC, MSFC, GSFC, AND NASA HQ.

TECH CONTACT: JSC/RAY BANKS/MO3-USA/281 280-6971

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/23/94
RESPONSE TRACKING: Z26110 Z2647 Z2697 Z2753 Z29104
Z3405 Z3941 Z4446 Z4466 Z5412
Z6201 Z6579

[PRD] DATABASE RECORD: 9890 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/18/06
INITIAL DATE: 07/15/88
ITEM NUMBER: T9EGKT DATE LAST CHANGED: 11/16/06
SECTION: 2734 TIME LAST CHANGED: 07:13:09

REQUESTER: JSC
SUBREQUESTER: I-PH-B JSC/WS8
TEST CODE: EAFB JSC S61E18 STSALL
WSSH WX

ASSOCIATED DOC:	20007S	20017S	20026S	20027S	
TRACKING NO.	COMREV05	KING2001	L004-10	L005-3	L01-5-2
	L01-8-1	L02-4-1	L04-7-1	L06-6-4	L203-2
	L203-22	L203-4	L2603	L2623	L2733
	L2927	L302-4	L307-1	L312-5	L3504

CONTINUED

[PRD] DATABASE RECORD: 9890
ITEM NUMBER: T9EGKT

L3535	L3837	L507-4	L510-1	L612-2
L703-4A	L703-4B	L711-4	L7404	L805-1
L8101	L8313	L901-8	R0407-1	R0607-5
R105-2	R108-1	R109-29	R111-1	R111-4
R2628	R2641	R2645	R2650	R2670
R2927	R3007	R3912	R3915	R5804
R6006	R8112	R8404	R8901	R9304
SHAW95				

PRIORITY: MANDATORY
RATIONALE: PRIORITY & RATIONALE ARE BROKEN DOWN SEE BELOW.

1. DESCRIPTION: METEOROLOGICAL DATA CIRCUITS FOR MIDDS

PROVIDE THE FOLLOWING DATA CIRCUITS TO SUPPORT OPERATIONAL METEOROLOGICAL INTERACTIVE DATA DISPLAY SYSTEM (MIDDS).

REF	TYPE OF SERVICE	FROM	TO	REMARKS
1. KEGT	224KBS DUPLEX	CCAFS,ROCC BLDG 81900 RM 140	JSC,BLDG 30 RM 116	FULL TERM. MIDDS I/ MIDDS II COMPUTER NET-WORKING.
2. EGKT	T1 DUPLEX	CCAFS/RSA RM. 127	JSC, BLDG 30 RM. 127	FULL TERM. MIDDS I/II COMPUTER NETWORKING
3. GT	1.2MBS SIMPLEX	WALLOPS CDA STATION, OPS BLDG, GOES OPS AREA, RACK 12A6	JSC, BLDG 30 RM 116	METEOSAT SECOND GENERATION HRIT DATA EUMETSAT MSG 8 SATELLITE IMAGERY DATA RELAY THROUGH WALLOPS NOAA TO JSC MIDDS
4. EGKT	T1 DUPLEX	SILVER SPRINGS METRO CENTER 2 (SSMC2) 1325 E. WEST HWY RM. 6390	JSC,BLDG 30 RM. 127	NATIONAL CENTER FOR ENVIRONMENTAL PREDICTION - OSO COMPUTER (NMC) NUMERICAL MODEL OUTPUT. SERIAL TCP/IP POINT TO POINT ROUTER

CONTINUED

[PRD] DATABASE RECORD: 9890
ITEM NUMBER: T9EGKT

				CONNECTION (NASCOM 2000).
5. EGT	9.6 KBPS 2-WIRE LAND LINE,C1 CONDIT-IONING, ASYNCH-RONOUS	WSMR, HP1000 COMPUTER C-STATION-MESONET DATA-INCLUDING WSSH AUTO WX STATION	JSC,BLDG 30 RM 112	WSMR AND SURROUNDING AREA MESONET WX DATA TO JSC. WSSH TOWER TO RECEIVE WSSH AUTO WX DATA ALSO. USER WILL PROVIDE MODEMS, RJ11C JACK REQUIRED.
6. KEGT	9.6KBS 2-WIRE LAND LINE CI CONDITIONING ASYNCHRONOUS	CCAFS WEATHER STATION BLDG. 1383	BLDG 30 5TH 30S	FOR TRANSMISSION OF RAWINSONDE WIND DATA. DATA IS LAUNCH CRITICAL DIVERSE ROUTING IS REQUESTED. REQUESTER WILL PROVIDE MODEMS.
7. EGT	9.6 KBPS 2-WIRE LAND LINE C1 CONDI-TIONING, ASYNCHRONOUS	EDWARDS 3520, RM2	JSC,BLDG 30 RM 112	EDWARDS UPPER WINDS DATA LINK. REQUESTER WILL PROVIDE MODEMS, RJ11C JACK REQUIRED.
8. ET	2400 BAUD 2-WIRE LAND LINE UNCONDITIONAL, ASYNCHRONOUS	WSSH TOWER AREA	WSMR C-STATION (TO) JSC,BLDG 30 RM 112	WSMR VASALA DATA LINK. REQUESTER WILL PROVIDE MODEMS, RJ11C JACK REQUIRED.
9. EK	2.4KBS	KSC DOPPLER RADAR WIND PROFILER SITE	CCAS MIDDS ROCC	DOPPLER RADAR WIND PROFILER DATA LINK.
10.	4800	OFFUTT	JSC,BLDG 30	RJ11C JACKS ON BOTH ENDS.

CONTINUED

[PRD] DATABASE RECORD: 9890
ITEM NUMBER: T9EGKT

EGT	FULL DUPLEX ASYN- CHRONOUS C1 CON- DITIONED 2-WIRE ODB TRANSMIT -16DB RECEIVE CIRCUIT	AFB, NE BLDG 3001G RM 104 CONTACT: MSGT LOWMAN 402 294-5933	RM 127 CONTACT: FRANK BRODY 281 483-5639

COORDINATION: GSFC/291.0/SEATON NORMAN/301 286-8676
JSC/ZS8/DORIS ROTZOLL/281 483-1041
JSC/L1J/HOWARD MEYERS/281 853-2180
ER/HAL HERRING/321 853-8211
KSC/KICS-105/ROD THORNTON/321 867-2241

PRIORITY/RATIONALE BROKEN DOWN AS FOLLOWS: (M)

TIME NEEDED	PRIORITY	RATIONALE
24 HRS DAILY	R	DAILY FORECAST PROFICIENCY TRAINING, MCC SIMULATIONS
L-36 HRS THRU L-6 HRS	R	RTLS/AOA/1ST DAY PLS FORECAST PREPARATION
L-6 HRS THRU 1ST DAY PLS	M	RTLS/AOA/1ST DAY PLS WEATHER ANALYSIS AND EVALUATION (*)
1ST DAY PLS THRU TD-6 HRS	R	DAILY PLS WEATHER EVALUATION, EOM FORECAST PREPARATION
TD-6 HRS THRU EOM	M	LANDING SITE WEATHER ANALYSIS AND EVALUATION

(*) - ACCEPTING "NO GO" FOR 1ST DAY PLS INCREASES TAL EXPOSURE BY

CONTINUED

[PRD] DATABASE RECORD: 9890
ITEM NUMBER: T9EGKT

10 TO 12 SECONDS.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB ER WSMR
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/18/06
RESPONSE: WILCO ITEM #1 AND #6 ONLY.

RESPONSE TRACKING: Z0407-2 Z108-6 Z26108 Z2641 Z2715
Z2753 Z3009 Z3539 Z3545 Z3553
Z3918 Z4115 Z4372 Z4912 Z5515
Z5810 Z6010 Z6206 Z7704 Z8121
Z8128 Z8407 Z8903 Z9304

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/18/06
RESPONSE:

RESPONSE TRACKING: Z0407-2 Z0505-3 Z26108 Z2647 Z2753
Z3009 Z3539 Z3545 Z3818 Z3854
Z3914 Z3918 Z4115 Z4520 Z4907
Z4912 Z5117 Z5515 Z5810 Z5811
Z6010 Z6206 Z6918 Z7203 Z8209
Z8406 Z8902 Z9304

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 07/18/06
RESPONSE:
WILL COMPLY UPON COMPLETION

RESPONSE TRACKING: Z108-6 Z26108 Z2753 Z3009 Z3511
Z3539 Z3914 Z3918 Z4520 Z4707
Z5515 Z5804 Z6010 Z6206 Z6936

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2734 - VIDEO/DATA NETWORK TRANSMISSION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 9890
ITEM NUMBER: T9EGKT

Z8127 Z8326 Z8402 Z8409 Z8901
Z9304

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/18/06
RESPONSE TRACKING: Z0407-1 Z105-2 Z108-1 Z26108 Z2753
Z3009 Z3511 Z3539 Z3854 Z3914
Z3918 Z4519 Z4520 Z4912 Z5515
Z5810 Z6010 Z6206 Z6903 Z7201
Z8118 Z8122 Z8304 Z8326 Z8901
Z9304

[PRD] DATABASE RECORD: 561501 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/20/01
INITIAL DATE: 12/20/01
ITEM NUMBER: H9.1EGK DATE LAST CHANGED: 01/16/07
SECTION: 2734 TIME LAST CHANGED: 09:44:17

REQUESTER: MSFC
TEST CODE: STSALL WX

ASSOCIATED DOC: 20007S 20017S 20026S 20027S
TRACKING NO. COMREV05 KING2001 R109-9
PRIORITY: MANDATORY
RATIONALE: PRIORITY & RATIONALE ARE BROKEN DOWN SEE BELOW.

1. DESCRIPTION: METEOROLOGICAL DATA CIRCUITS FOR MIDDS

PROVIDE THE FOLLOWING DATA CIRCUITS TO SUPPORT OPERATIONAL METEOROLOGICAL INTERACTIVE DATA DISPLAY SYSTEM (MIDDS).

REF	TYPE OF SERVICE	FROM	TO	REMARKS
1	56KBS DUPLEX	CCAFS, ROCC BLDG 81900 RM. 140	MSFC, BLDG 4663, RM B113 NETWORKING	FULL TERM, MIDDS I/MSFC MIDDS COMPUTER.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2734 - VIDEO/DATA NETWORK TRANSMISSION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 561501
ITEM NUMBER: H9.1EGK

COORDINATION: GSFC/731/SEATON NORMAN/301 286-8676
MSFC/EV13/RYAN DECKER/256 544-3068
ER/HAL HERRING/321 853-8211

TECH CONTACT: KSC/KICS-105/ROD THORNTON/321 867-2241
MSFC/GARY DEMPSEY/256 544-5113

PRIORITY/RATIONALE BROKEN DOWN AS FOLLOWS (M)

TIME NEEDED	PRIORITY	REMARKS
24 HRS DAILY	R	DAILY FORECAST PROFICIENCY TRAINING, MCC SIMULATIONS
L-36 HRS TO L-7 HRS	R	RTLS/AOA/1ST DAY PLS FORECAST PREPARATION
L-7 HRS THRU 1ST DAY PLS	M	RTLS/AOA/1ST DAY PLS WEATHER ANALYSIS AND EVALUATION.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/07/02
RESPONSE TRACKING: Z109-11

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/14/02
RESPONSE TRACKING: Z109-7

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/20/01
RESPONSE TRACKING: Z109-5

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2734 - VIDEO/DATA NETWORK TRANSMISSION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD:	13072	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	LLS	APPROVAL DATE:	01/12/05
		INITIAL DATE:	09/21/88
ITEM NUMBER:	T13GK	DATE LAST CHANGED:	11/16/06
SECTION:	2734	TIME LAST CHANGED:	07:13:11

REQUESTER:	JSC			
SUBREQUESTER:	JSC/MV	MER		
TEST CODE:	LANDNG	LAUNCH	NTR	PREFLT
	STS114+	STSALL	SUPSIM	V1043
	V1045	V1103	V1117	V1216

ASSOCIATED DOC:	20007S	20014S	20017S	20026S	
	20027S	20028S	20029S		
TRACKING NO.	COMREV05	KING2001	L001-2	L010-1	L05-1-1
	L102-2	L105-13	L206-12	L2658	L2950
	L3508	L3531	L3902	L3960	L411-4
	L4602	L501-5	L6003	L601-1	L701-4
	L703-1	L7204	L8208	L8302	L8306
	L901-2	L905-2	L907-1	L9305	L9604
	R0501-2	R109-29	R26155	R26245	R3520
	R6305	R7001	R9310		
PRIORITY:	REQUIRED				
RATIONALE:	MISSION SUPPORT				

1. DESCRIPTION: NISN LAUNCH PROCESSING SYSTEM DATA LINK AND KSC DATA SUPPORT

A. GSFC TO PROVIDE:
NISN WILL PROVIDE THE LAUNCH PROCESSING SYSTEM A T-1 DATA LINK FROM KSC TO JSC. INFO ONLY: THIS LINK WILL BE USED TO TRANSMIT LPS DATA FOR THE FOLLOWING ACTIVITIES.

B. KSC TO PROVIDE:
KSC LPS PERSONNEL, RESIDENT AT KSC, WILL SUPPLY AND MAINTAIN THE SOFTWARE AND SOFTWARE MODULES REQUIRED FOR PC GOAL OPERATIONS AND ALLOW ACCESS TO ALL FEATURES OF THE PC GOAL SYSTEM.

KSC GROUND TESTS - TO BE MONITORED IN THE MER ON THE LPS PC GOAL, AND THE VEHICLE (128/192KBPS) DATA FOR NORMAL SUPPORT OPERATIONS.

CONTINUED

[PRD] DATABASE RECORD: 13072
ITEM NUMBER: T13GK

- O EMU INSTALLATION AND CHECKOUT - V1103

- O LAUNCH COUNTDOWN (S0007) - FROM T-6 HRS THRU L+20 MIN.
  TO SUPPORT S0007 (VL1, VL2, AND VL3)

- O MISSION LANDING - LANDING MINUS TWO HOURS THRU LANDING PLUS ONE
  HOUR.
  S0026 CONVOY, EAFB
  S0027 CONVOY, WSSH/EOM
  S0028 CONVOY, KSC
  S0029 CONVOY, CLS

- O HYPERGOLIC LOADING (LPS DATA) V1045 VL1-9 - OMS/RCS HYPERGOLIC
  SERVICING

- O EDO CRYO CONFIDENCE RUN TEST

- O IMU CALIBRATION (LPS DATA) V1043

- O APU CONFIDENCE RUN V1216

- O COMMUNICATION ACTIVATION (LPS DATA) V1117 - COMMUNICATION LAUNCH
  CONFIGURATION C/O

- O FLIGHT READINESS FIRINGS - S0014 VL1, VL2, VL3, VL4

- O TERMINAL COUNT DEMO S0017 - TERMINAL COUNT DEMONSTRATION TEST (TCDT)

- O SELECTED SIMULATIONS
  SUPSIM - SHUTTLE FINAL C/D PHASE SIMULATION (SUPER SIM)
  WET & DRY CDDT'S

- O OTHER ACTIVITIES/TIMES BY REQUEST FOR CONTINGENCY SUPPORT.

- O PAYLOAD IVT - DURING PAYLOAD INTERFACE VERIFICATION TESTS (IVT)
  AT CITE, OPF, OR PAD, DATA WILL BE TRANSMITTED FROM KSC TO JSC
  FOR DATA REVIEW BY THE PAYLOAD COMMUNITY. IF A CONFLICT SHOULD
  OCCUR BETWEEN VEHICLE AND PAYLOAD TESTING, THE VEHICLE TESTING
  HAS FIRST PRIORITY AND THE PAYLOAD DATA CAN BE PLAYED BACK AT

CONTINUED

[PRD] DATABASE RECORD: 13072
ITEM NUMBER: T13GK

A LATER TIME.

NOTE: 1. PROVIDE REALTIME MONITORING OF THE FOLLOWING ACTIVITY (T-24HRS): COMMUNICATION ACTIVATION, TCDT, AND FRF.

2. MISSION LANDING PLUS TWO HRS WILL BE USED FOR MISSION ANOMALY INVESTIGATIONS AS REQUIRED.

3. JSC WILL GIVE KSC 72 HRS NOTIFICATION OF CHANGE IN SUPPORT DEFINED IN THE TWO PREVIOUS NOTES.

4. SUPPORT FOR TESTS WITH NO FORMAL OR/OD E.G., V1043, V1045, V1103, V1117, V1216 ETC, WILL BE ENTERED ON THE 'KICS' SCHEDULE.

REFERENCE: LLS2700 ITEM T98K DBR 017707
LLS2736 ITEM T14GKT DBR 013959
LLS2766 ITEM T42K DBR 013779

PRIME REQUESTER: JSC/MV/KENNETH BROWN/281 483-3891

COORDINATION: JSC/MV/KENNETH BROWN/281 483-3891

TECH CONTACT: RICHARD HARTUNG/USK-607/321-861-6752
RENEE HART/USK-669/321-861-0988

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/12/05

RESPONSE TRACKING:	GSFCREV6	Z0505-3	Z26155	Z26202	Z2647
	Z3516	Z3530	Z3534	Z3598	Z3808
	Z39104	Z3941	Z4604	Z6018	Z7104
	Z7901	Z8216	Z8317	Z9317	Z9325

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 RPS USK-607
RESPONDER: ELLEN HILL/321 861-2381

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2734 - VIDEO/DATA NETWORK TRANSMISSION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 13072
ITEM NUMBER: T13GK

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/18/05

RESPONSE TRACKING:	Z26202	Z2736	Z2809	Z3041	Z3516
	Z3534	Z3598	Z3878	Z39104	Z3941
	Z4611	Z6018	Z6912	Z8216	Z8317
	Z9323	Z9607			

[PRD] DATABASE RECORD: 13959 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/12/05
INITIAL DATE: 08/17/90
ITEM NUMBER: T14GKT DATE LAST CHANGED: 01/23/07
SECTION: 2734 TIME LAST CHANGED: 08:03:53

REQUESTER: JSC
SUBREQUESTER: JSC/MV JSC/MV6 MER
TEST CODE: STS114+ STSALL SUPSIM T1

ASSOCIATED DOC: 20007S 20017S 20026S 20027S 20028S

TRACKING NO.	COMREV05	KING2001	L001-3	L002-4	L008-4
	L04-2-1	L05-1-1	L0701-3	L102-2	L102-5
	L107-9	L109-2	L109-5	L109-9	L208-6
	L3009	L3026	L305-4	L3139	L3567
	L3902	L3926	L411-4	L4341	L4824
	L501-5	L502-1	L504-4	L506-2	L508-1
	L5516	L5711	L5718	L601-1	L605-3
	L6705	L7001	L710-2	L7204	L8709
	L901-2	L903-1	L904-9	L907-1	L908-7
	L909-13	L912-6	L9305	R0402-1	R0501-2
	R0701-7	R109-29	R2674	R2683	R3411
	R3504	R3506	R3701	R3702	R3703
	R3705	R3708	R4406	R4413	R6305
	R7001	R7801	R9310	R9601	SHAW95

PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: KSC - JSC MER/LPS DATA CIRCUIT

GSFC: PROVIDE A T-1 LINK FROM KSC TO JSC BLDG. 30,

CONTINUED

[PRD] DATABASE RECORD: 13959
ITEM NUMBER: T14GKT

ROOM 112, FOR SENDING LAUNCH PROCESSING SYSTEM (LPS) DATA TO THE MER, THE JSC ORBITER DATA REDUCTION COMPLEX (ODRC), AND THE SHUTTLE AVIONICS INTERGRATION LABORATORY (SAIL). AT KSC, THE CIRCUIT WILL INTERFACE WITH THE LCC/LPS.

KSC: THE FOLLOWING DATA STREAMS WILL BE MULTIPLEXED ONTO THE NISN T-1 LINK:

REF	DATA RATE	DESCRIPTION/REMARKS
1	128 KBPS	T-0 UMBILICAL/192 KPS ORBITER DOWNLINK (ALL MISSIONS) FROM THE: PAD/OPF/VAB (SEE NOTE 2)
2	60 KBPS	SSME 1 (ALL MISSIONS)
3	60 KBPS	SSME 2 (ALL MISSIONS)
4	60 KBPS	SSME 3 (ALL MISSIONS)
5	2.4 KBPS	VIDEO SWITCH (OTV)
6	56 KBPS	SAIL TO KSC SDC CCMS
7	32 KBPS	ORDER WIRE (MCC)
8	60 KBPS	SSME DUMP/PLAYBACK (ALL MISSIONS)

NOTE 1: THE SSME DUMP PLAYBACK WILL BE TRANSMITTED FROM KSC LPS RPS AT 60 KBPS (1:1 RATE), ALL ENGINES SIMULTANEOUSLY (SSME 1, 2, & 3) IN A FORWARD DIRECTION, AND IN A NON-INVERTED MODE. ALL 3 SSME PLAYBACK DATA STREAMS WILL BE TRANSMITTED SERIALLY TO JSC ON THE KSC-JSC MER/LPS DATA LINK SSME 1 DATA CIRCUIT.

NOTE 2: THE 128 KBPS UMBILICAL DATA STREAM WILL BE SWITCHED AT KSC TO THE 192 KBPS ORBITER DATA STREAM AT T-45 MIN. THESE DATA STREAMS WILL NOT BE TRANSMITTED CONCURRENTLY.

JSC: WILL PROVIDE A COMMUNICATIONS PATCH JSC/BLDG. 30 TO TRANSMIT SHUTTLE DATA TO BLDG. 16 (SAIL) AND TO THE ODRC.

PRIME REQUESTER: JSC/MV6/DAVID MOYER/281 483-0893

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2734 - VIDEO/DATA NETWORK TRANSMISSION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 13959
ITEM NUMBER: T14GKT

TECH CONTACTS: JSC/MV6/DAVID MOYER/281 483-0893
JSC/SAIL TEST CONDUCTOR/281 483-1732
JSC/EV151/BILL RITZ/281 483-1574
KSC/LPS/TEST CONDUCTOR/321 867-7730
KSC/USK-607/DICK HARTUNG/321 861-6752
KSC/USK-669/RENEE HART/321 861-0988

REFERENCES: ITEM T13GK LLS2736 DBR 013072
ITEM T82KT LLS2200 DBR 016363

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/12/05
RESPONSE:

RESPONSE TRACKING: GSFCREV06 Z0505-3 Z3022 Z3033 Z3177
Z3301 Z3431 Z3585 Z3703 Z3941
Z3961 Z4368 Z4404 Z4410 Z4828
Z5513 Z5713 Z5730 Z6906 Z7011
Z7104 Z7302 Z7805 Z8722 Z9325
Z9603

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 PH-K3 USK-607
USK-669

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/18/05
RESPONSE TRACKING: Z3171 Z3177 Z3585 Z3633 Z3703
Z3808 Z3940 Z3941 Z3961 Z4019
Z4306 Z4338 Z4368 Z4404 Z4410
Z4828 Z5513 Z5713 Z5724 Z6928
Z7106 Z7903 Z8722 Z9323 Z9602

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

CONTINUED

[PRD] DATABASE RECORD: 13959
ITEM NUMBER: T14GKT

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/12/05

RESPONSE TRACKING:	Z0501-2	Z3468	Z3961	Z4404	Z4410
	Z4828	Z5513	Z5713	Z5724	Z6306
	Z6924	Z7002	Z7008	Z7013	Z7209
	Z7801	Z8722	Z9312	Z9323	Z9602

[PRD] DATABASE RECORD: 13834 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/13/04
INITIAL DATE: 08/06/91
ITEM NUMBER: T15EGK DATE LAST CHANGED: 11/16/06
SECTION: 2734 TIME LAST CHANGED: 07:13:12

REQUESTER: JSC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S

TRACKING NO.	COMREV05	KING2001	L04-5-1	L06-3-2	L108-1
	L2733	R0405-2	R109-29	R2665	R2671
	R4802				

PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: 300 BAUD CIRCUIT - JSC TO ER

PROVIDE ONE 300 BAUD CIRCUIT BETWEEN JSC GNC CONSOLE AND THE FCO CONSOLE AT THE ROCC. THIS CIRCUIT IS REQUIRED TO TRANSMIT SIGNALING INFORMATION IN THE EVENT OF A SHUTTLE TRAJECTORY ANOMALY. TERMINATE THE CIRCUIT IN ROOM 112 F107 IN COMM CONTROL.

TECH CONTACT: KSC/MIKE GAWEL/321 853-8118
JSC/DF611/DAVID GRUBER/281 483-0709

REFERENCE: SECT 2766 ITEM T43E DBR 013833

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/13/04

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2734 - VIDEO/DATA NETWORK TRANSMISSION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 13834
ITEM NUMBER: T15EGK

RESPONSE TRACKING: Z2718 Z2753 Z4802

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/13/04
RESPONSE TRACKING: Z2753 Z4802

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/13/04

[PRD] DATABASE RECORD: 13953 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/27/03
INITIAL DATE: 03/09/89
ITEM NUMBER: T16G DATE LAST CHANGED: 11/16/06
SECTION: 2734 TIME LAST CHANGED: 07:13:12

REQUESTER: JSC
SUBREQUESTER: JSC/MO3
TEST CODE: EAFB KSC STSALL SUPSIM
TVPLAN

ASSOCIATED DOC: 20007S 20026S 20028S
TRACKING NO. KING2001 L01-10-1 L03-8-5 L04-8-1 L06-10-1
L204-12 L2604 L2721 L2732 L2969
L406-1 L4939 L6201 R0610-2 R108-5
R109-29 R26173 R2670 R2907 R2923
RTF114-9
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: TIME CODE WITH SATELLITE TELEVISION

PROVIDE A SECOND 15 KHZ AUDIO CHANNEL IN THE SATELLITE TELEVISION SERVICE. THE TRANSMISSION PATH TIME DELAY MUST BE THE SAME FOR THE TIME CODE AND THE VIDEO. THESE CHANNELS SHALL BE CAPABLE OF PASSING IRIG-B TIME CODE WITHOUT INTERFERENCE TO NASA SELECT VIDEO OR AUDIO AMC-6 TRANSPONDER 17C

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2734 - VIDEO/DATA NETWORK TRANSMISSION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 13953
ITEM NUMBER: T16G

CAPABILITY FOR THIS CHANNEL IS REQUIRED AS FOLLOWS:

LOCATION	CAPABILITY
KSC	TRANSMIT AND RECEIVE
DRYDEN	TRANSMIT-ONLY
JSC	RECEIVE -ONLY
MSFC	RECEIVE -ONLY

REFERENCE: SECT 2766 ITEM T44EGHKTX DBR 013952
SECT 2805 ITEM HT28.6EKT DBR 016832
SECT 2700 ITEM T116K DBR 514579

COORDINATION: JSC/M03-USA/RAY BANKS/USH 700E/281 280-6971

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/03/03
RESPONSE TRACKING: Z26110 Z2752 Z2910 Z2961 Z3002
Z4942 Z6201 ZRTF11-6

[PRD] DATABASE RECORD: 20748 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/14/99
INITIAL DATE: 06/29/90
ITEM NUMBER: T26EGKT DATE LAST CHANGED: 11/16/06
SECTION: 2734 TIME LAST CHANGED: 07:13:15

REQUESTER: JSC
SUBREQUESTER: JSC/MS4
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20017S
TRACKING NO. COMREV05 KING2001 L001-10 L003-1 L003-9
L3526 L3805 L7601 R109-29 R3119
R3509 R4102 R9304
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

CONTINUED

[PRD] DATABASE RECORD: 20748
ITEM NUMBER: T26EGKT

1. DESCRIPTION: DOLILU DATA TRANSFER SYSTEM

GSFC TO PROVIDE TWO DIVERSELY ASSIGNED 2.4 KB/S COMMUNICATIONS LINES BETWEEN THE JSC MCC, AND CCAFS.

REF	TYPE OF SERVICE	FROM	TO	REMARKS
T1	2.4 KB/S DUPLEX	JSC MCC ROOM 127A	CCAFS 1641 (X-Y BLDG.)	4 ATT ANALOG MODEMS (2 FOR JSC MCC AND 2 FOR CCAFS, JSC AND ER TO PROVIDE THE MODEMS)

REFERENCE: SECT 2700 ITEM T108EGT DBR 020747

TECH CONTACTS: JSC/DV/KEN JONES/281 483-7671
GSFC/NASA/SEATON NORMAN/301 286-8676
ER/MIKE GAWEL/321 853-8118

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/14/99
RESPONSE TRACKING: Z3118 Z3546 Z3817 Z3841 Z3867
Z4103 Z4120 Z7705 Z9304

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/14/99
RESPONSE TRACKING: Z3153 Z3504 Z3530 Z3817 Z7601
Z9304

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-A KICS-105

CONTINUED

[PRD] DATABASE RECORD: 20748
ITEM NUMBER: T26EGKT

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/19/05

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/14/99
RESPONSE TRACKING: Z3118 Z3504 Z3530 Z3817 Z4101
Z7709 Z9304

[PRD] DATABASE RECORD: 21099 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/23/97
INITIAL DATE: 05/13/91
ITEM NUMBER: E29G DATE LAST CHANGED: 11/16/06
SECTION: 2734 TIME LAST CHANGED: 07:13:16

REQUESTER: ER
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 KING2001 L3119 L3526 L4026
L6202 L8212 L8703 L910-8 R109-29
R3930 R8308
PRIORITY: MANDATORY
RATIONALE: MISSION SUCCESS

1. DESCRIPTION: HIGH-SPEED DATA CIRCUITS

PROVIDE-HIGH SPEED DATA CIRCUITS AS OUTLINED BELOW:

REF	TYPE OF SERVICE	FROM	TO	REMARKS
E.1	2.4 KBPS HALF DUPLEX 3 CKTS	MILA	ER	RANGE SAFETY, TELEMETRY. BACKUP CIRCUIT USED FOR RANGE SAFETY, TRACKING OR TELEMETRY DATA.

POC: (ER) MIKE GAWEL/321 853-8118
(MILA) GARY MORSE/321 867-3514

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)

CONTINUED

[PRD] DATABASE RECORD: 21099
ITEM NUMBER: E29G

SUBSUPPLIER: I-MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/23/97
RESPONSE TRACKING: GSFCREV06 Z3141 Z3530 Z3932 Z4029
Z6202 Z8310 Z8716 Z9409

[PRD] DATABASE RECORD: 514040 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/25/06
INITIAL DATE: 02/25/91
ITEM NUMBER: HT33G DATE LAST CHANGED: 11/20/06
SECTION: 2734 TIME LAST CHANGED: 12:49:17

REQUESTER: MSFC JSC
SUBREQUESTER: JSC/MO3 MS098
TEST CODE: STSALL TVPLAN XP

ASSOCIATED DOC: 20007S 20028S
TRACKING NO. COMREV05 GSFCREV06 KING2001 L03-8-5 L04-8-1
L06-10-1 L102-7 L104-2 L109-2 L110-4
L111-17 L112-1 L204-12B L206-10 L207-3
L3711 L3734 L3930 L4416 L4430
L4435 L4608 L4624 L4824 L4944
L5016 L6201 L801-1 R0610-2 R109-29
R4217 R8902 RTF114-9
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: TELEVISION TRANSPONDER SUPPORT FOR SHUTTLE FLIGHTS

CONTROL AND SCHEDULING OF AMC-6 TRANSPONDER 5 AND AMC-6 TRANSPONDER 17C ARE A FUNCTION OF NISN. DURING SHUTTLE FLIGHTS, OPERATIONAL CONTROL OF THESE TRANSPONDERS IS DELEGATED TO HOUSTON TV WHO ACTS ON BEHALF OF THE FLIGHT DIRECTOR.

GENERAL USE OF THESE TRANSPONDERS IS AS FOLLOWS:

LAUNCH:

AMC-6 TRANSPONDER 5 - MULTIPLEXED VIDEO FROM KSC TO SUPPORT

CONTINUED

[PRD] DATABASE RECORD: 514040
ITEM NUMBER: HT33G

OPERATIONAL NEEDS OF THE MARSHALL ICE TEAM AND THE JSC MER.

AMC-6 TRANSPONDER 17C- SUPPORT OF LAUNCH COVERAGE FOR PUBLIC AFFAIRS OFFICE (PAO) AND OPERATIONS AS NASA SELECT. ALSO USED FOR TRANSMISSION OF S-BAND DOWNLINKED VIDEO FROM MIL TO JSC.

LANDING:

AMC-6 TRANSPONDER 5 - SUPPORT OF OPERATIONAL TELEVISION REQUIREMENTS OF THE MER FOR POST-FLIGHT DOCUMENTATION OF ORBITER CONDITION.

AMC-6 TRANSPONDER 17C - SUPPORT OF OPERATIONAL AND PAO COVERAGE OF LANDING FROM ACQUISITION THROUGH CREW EGRESS.

TRANSPONDER AUDIO CHANNELS

AMC-6 TRANSPONDER 5 HAS ONE AUDIO CHANNEL FOR TIMING DATA DURING TAPE REPLAYS.

AMC-6 TRANSPONDER 17C HAS TWO AUDIO CHANNELS, ONE FOR PROGRAM AUDIO AND THE OTHER FOR TIMING DATA ASSOCIATED WITH TAPE REPLAYS.

TRANSPONDER UPLINK/DOWNLINK CAPABILITIES

SITE	AMC-6 TRANSPONDER 17C UPLINK/DOWNLINK		AMC-6 TRANSPONDER 5 UPLINK/DOWNLINK	
KSC/MIL	X	X	X	X
MSFC	X	X	X	X
JSC	X	X	X	X
GSFC	X	X		X
NGT	X	X	X	X
DFRC	X	X		X

POC: MSFC/PHILIP CAUTHEN/EO60/256 544-4204
GSFC COMMUNICATIONS MANAGER/301 286-6141
GSFC TV 301 286-6146
NNGS/T. BOGGS/GSFC/301 286-5590

NOTE 1: DEPENDING ON FLIGHT REAL-TIME REQUIREMENTS AND PAO SPECIAL

CONTINUED

[PRD] DATABASE RECORD: 514040
ITEM NUMBER: HT33G

EVENTS, PRIORITIES AND CONFIGURATIONS MAY CHANGE AND ARE TO BE COORDINATED THROUGH HOUSTON TV AND NISN. GENERALLY, AMC-6 TRANSPONDER 17C WILL BE USED FOR "PUBLIC ACCESS" AND WILL NORMALLY CARRY NASA SELECT TELEVISION. AMC-6 TRANSPONDER 5 DESIGNATED FOR OPERATIONAL USE.

REFERENCE: LLS2700 ITEM T121G DBR 520567
FLS2700 ITEM T34G DBR 520565
FLS2736 ITEM HT26EG DBR 513735

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/16/06
RESPONSE TRACKING: Z3711 Z3737 Z4224 Z4463 Z4466
Z4610 Z4632 Z4828 Z4955 Z6201
Z9004 ZRTF114-6

[PRD] DATABASE RECORD: 514564 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/12/91
INITIAL DATE: 04/12/91
ITEM NUMBER: H34G DATE LAST CHANGED: 11/16/06
SECTION: 2734 TIME LAST CHANGED: 07:13:26

REQUESTER: MSFC
SUBREQUESTER: MS036
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 KING2001 R109-29
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: COUNTDOWN TIMING CIRCUIT - KSC TO MSFC

MSFC REQUIRES ONE (1) FULL PERIOD CIRCUIT FROM KSC TO MSFC FOR COUNTDOWN TIMING.

TECH CONTACT: KSC/TED MOSTELLER/PH-L/861-9307

CONTINUED

[PRD] DATABASE RECORD: 514564
ITEM NUMBER: H34G

REFERENCE: LLS 2810 ITEM H5K DBR 514563.

THIS DOCUMENTS EXISTING CIRCUITRY.

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/12/91
RESPONSE TRACKING: Z6987

[PRD] DATABASE RECORD: 514596 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/23/91
INITIAL DATE: 04/23/91
ITEM NUMBER: T35G DATE LAST CHANGED: 11/16/06
SECTION: 2734 TIME LAST CHANGED: 07:13:26

REQUESTER: JSC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 KING2001 L3960 L6202 R109-29
PRIORITY: MANDATORY
RATIONALE: MISSION SUCCESS

1. DESCRIPTION: TIMING CIRCUIT - KSC TO JSC

JSC REQUIRES ONE (1) FULL PERIOD CIRCUIT FROM KSC TO JSC
FOR COUNTDOWN TIMING.

TECH CONTACT: KSC/TED MOSTELLER/PH-L/321 861-9307

REFERENCE: LLS2400, ITEM GT6K, DBR 514595

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/23/91
RESPONSE TRACKING: Z39104 Z6202

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2734 - VIDEO/DATA NETWORK TRANSMISSION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 525519 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/12/02
INITIAL DATE: 02/08/94
ITEM NUMBER: G35.1G DATE LAST CHANGED: 11/16/06
SECTION: 2734 TIME LAST CHANGED: 07:13:27

REQUESTER: GSFC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 KING2001 L6202 R109-29
PRIORITY: MANDATORY
RATIONALE: MISSION SUCCESS

1. DESCRIPTION: TIMING CIRCUIT - KSC TO GSFC

PROVIDE A FULL PERIOD CIRCUIT FOR TIMING FROM
KSC TO GSFC/NIC VIA MILA.

TECH CONTACT: KSC/PH-L/TED MOSTELLER/321 861-9307
MILA/OPS MGR/321 867-1068
GSFC/AL DUANY/301 286-2721

REFERENCE: LLS2400, ITEM GT6K, DBR 514595

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/12/02
RESPONSE TRACKING: Z6202

[PRD] DATABASE RECORD: 519266 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/17/92
INITIAL DATE: 04/03/92
ITEM NUMBER: T36.1T DATE LAST CHANGED: 06/23/06
SECTION: 2734 TIME LAST CHANGED: 12:58:14

REQUESTER: JSC
SUBREQUESTER: I-PH-B JSC/WS8
TEST CODE: LANDNG LAUNCH STSALL WX

CONTINUED

[PRD] DATABASE RECORD: 519266
ITEM NUMBER: T36.1T

ASSOCIATED DOC: 20026S 20027S 20028S
TRACKING NO. COMREV05 KING2001 L06-1-1 L203-3A L203-3B
L4610 L4902 L4936 L612-2 R0601-3
R109-29 R8112
PRIORITY: MANDATORY
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: DIAL-UP DOPPLER WEATHER RADAR (NEXRAD)

PROVIDE A 2-WIRE 9600 BAUD SYNCHRONOUS FULL DUPLEX ANALOG DIAL-UP LINE WITH TOUCH TONE CAPABILITY TO BE USED IN CONJUNCTION WITH CODEX MODEL 3262 V.32 MODEL FOR DIAL-UP SERVICE. THIS LINE WILL TERMINATE IN BUILDING 30, ROOM 239 INSIDE THE NEXRAD DEMARCATION BOX.

TECH CONTACTS: JSC/L1J/HOWARD MEYERS/281 853-2180
NWS JSC/ZS8/RICHARD LAFOSSE/281 483-1048

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/17/92
RESPONSE TRACKING: Z4614 Z4901 Z4938

[PRD] DATABASE RECORD: 522926 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/20/04
INITIAL DATE: 04/22/93
ITEM NUMBER: T38GT DATE LAST CHANGED: 11/16/06
SECTION: 2734 TIME LAST CHANGED: 07:13:27

REQUESTER: JSC
SUBREQUESTER: B-NS/HOU JSC/DM44 JSC/WA MER
TEST CODE: STSALL WX

ASSOCIATED DOC: 20007S 20017S
TRACKING NO. 711-2 A106-1 COMREV05 KING2001 L04-2-1

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2734 - VIDEO/DATA NETWORK TRANSMISSION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 522926
ITEM NUMBER: T38GT

	L06-11-2	L304-7	L304-7A	L507-3	L812-2
	R0402-1	R109-29	R5801	R5802	R9302

PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: DOLILU DATA TRANSFER SYSTEM TO B-NS HOUSTON, TOWER II

GSFC TO PROVIDE TWO DIVERSELY ROUTED 56 KB/S COMMUNICATIONS LINES BETWEEN THE JSC MCC AND B-NS HOUSTON, BLDG. 91-14 (TOWER II)

REF	TYPE OF SERVICE	FROM	TO	REMARKS
T1	56 KB/S DUPLEX	JSC MCC ROOM 127A	B-NS HOUSTON BLDG. 91-14 (TOWER II)	4 ATT 2600 DSU (OR EQUIVALENT) 9.6 SYNCHRONOUS MODEMS (2 FOR JSC MCC AND 2 FOR B-NS)

REFERENCE: SECT 2700 ITEM T126GT DBR 522925

TECHNICAL CONTACTS: JSC/DV/KEN JONES/281 483-7671
JSC/RSOC/R15A/BOB MILLS/281 282-3105
B-NS/HOU/SHELIA GONZALEZ/281 226-5546
B-NS/HOU/STEPHEN W. PRICE/281 226-3226

COORDINATION: B-NS/HOU/GAIL HARGROVE/281 226-5575
JSC/DM44/HENRY CORDOVA/281 483-6197

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/20/04
RESPONSE TRACKING: Z5801 Z5803 Z5810 Z6108 Z7402
Z9303

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2734 - VIDEO/DATA NETWORK TRANSMISSION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 522926
ITEM NUMBER: T38GT

RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/20/04
RESPONSE TRACKING: Z0402-2 Z5801 Z5802 Z9301

[PRD] DATABASE RECORD: 530281 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/12/02
INITIAL DATE: 07/28/95
ITEM NUMBER: H40GK DATE LAST CHANGED: 01/25/07
SECTION: 2734 TIME LAST CHANGED: 10:06:01

REQUESTER: MSFC
SUBREQUESTER: MS203
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20008S 20017S 25009S
TRACKING NO. COMREV05 KING2001 L7005 R109-29 SCRUB06
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: DUAL REALTIME SUPPORT

MSFC REQUIRES TWO 768 KBPS CIRCUITS TO SUPPORT SIMULTANEOUS TRANSMISSION OF OD FROM THE VAB, PLUS OD AND SSME (BOTH RF AND HARDLINE) FROM THE PAD.

TECHNICAL CONTACT: MSFC/GARY DEMPSEY/256 544-5113
KSC/DICK HARTUNG/321 861-0588

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/12/02
RESPONSE TRACKING: Z6921

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-NE-C2 USK-607

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 02/12/02
RESPONSE: SSME RF & HL NOT SENT SIMULTANEOUSLY

CONTINUED

[PRD] DATABASE RECORD: 530281
ITEM NUMBER: H40GK

ON SAME CIRCUIT.

RESPONSE TRACKING: Z7206

[PRD] DATABASE RECORD: 561726 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/12/02
INITIAL DATE: 02/12/02
ITEM NUMBER: H41G DATE LAST CHANGED: 11/16/06
SECTION: 2734 TIME LAST CHANGED: 07:13:27

REQUESTER: MSFC
TEST CODE: MMT SIM STSALL

ASSOCIATED DOC: 20007S 20008S 20009S 20017S
20044S 20056S 25009S
TRACKING NO. COMREV05 KING2001 R109-29
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: THIOKOL SDS DATA CIRCUIT

MSFC REQUIRES A DATA CIRCUIT FOR THE TRANSMISSION OF THE SHUTTLE DATA STREAM FROM MSFC TO THE THIOKOL FACILITY AT PROMITORY,UTAH.

POC: MSFC/GARY DEMPSEY/256 544-5113
TC/SYD HENDERSON 435 863-3261

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/13/02

[PRD] DATABASE RECORD: 561727 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/12/02
INITIAL DATE: 02/12/02
ITEM NUMBER: H42G DATE LAST CHANGED: 11/16/06
SECTION: 2734 TIME LAST CHANGED: 07:13:27

REQUESTER: MSFC

CONTINUED

[PRD] DATABASE RECORD: 561727
ITEM NUMBER: H42G

TEST CODE: MMT SIM

ASSOCIATED DOC: 20007S 20009S 20017S 20028S
20044S 20056S 25009S
TRACKING NO. COMREV05 KING2001 R109-29
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: ROCKETDYNE SDS DATA CIRCUIT

MSFC REQUIRES A DATA CIRCUIT FOR THE TRANSMISSION
OF THE SHUTTLE DATA STREAM FROM MSFC TO THE BOEING/
ROCKETDYNE FACILITY IN CANOGA PARK, CALIFORNIA.

POC: MSFC/GARY DEMPSEY/256 544-5113
BOEING/ROCETDYNE/RON TANOUYE 818 586-4752

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/13/02

[PRD] DATABASE RECORD: 561731 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/12/02
INITIAL DATE: 02/12/02
ITEM NUMBER: H44G DATE LAST CHANGED: 11/16/06
SECTION: 2734 TIME LAST CHANGED: 07:13:27

REQUESTER: MSFC
TEST CODE: MMT SIM

ASSOCIATED DOC: 20007S 20008S 20009S 20017S
20044S 20056S 25009S
TRACKING NO. COMREV05 KING2001 R109-29
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: PRATT & WHITNEY SDS DATA CIRCUIT

CONTINUED

[PRD] DATABASE RECORD: 561731
ITEM NUMBER: H44G

MSFC REQUIRES A DATA CIRCUIT FOR THE TRANSMISSION OF THE SHUTTLE DATA STREAM FROM MSFC TO THE PRATT & WHITNEY, PALM BEACH, FLORIDA.

POC: MSFC/GARY DEMPSEY/256 544-5113
PRATT & WHITNEY/AL DAVIS 561 796-8904

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/13/02

[PRD] DATABASE RECORD: 561732 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/12/02
INITIAL DATE: 02/12/02
ITEM NUMBER: H45G DATE LAST CHANGED: 11/16/06
SECTION: 2734 TIME LAST CHANGED: 07:13:27

REQUESTER: MSFC
TEST CODE: MMT SIM

ASSOCIATED DOC: 20007S 20008S 20009S 20017S
20044S 20056S 25009S
TRACKING NO. COMREV05 KING2001 R109-29
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: STENNIS SPACE CENTER SDS DATA CIRCUIT

MSFC REQUIRES A DATA CIRCUIT FOR THE TRANSMISSION OF THE SHUTTLE DATA STREAM FROM MSFC TO STENNIS SPACE CENTER, MS.

POC: MSFC/GARY DEMPSEY/256 544-5113
STENNIS SPACE CENTER/JUDY WHEATON/228 688-2973

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/13/02

CONTINUED

[PRD] DATABASE RECORD: 561732
ITEM NUMBER: H45G

[PRD] DATABASE RECORD: 561733 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/22/06
INITIAL DATE: 02/12/02
ITEM NUMBER: H46G DATE LAST CHANGED: 11/16/06
SECTION: 2734 TIME LAST CHANGED: 07:13:27

REQUESTER: MSFC
TEST CODE: MMT SIM

ASSOCIATED DOC: 20007S 20008S 20009S 20017S
20044S 20056S 25009S
TRACKING NO. COMREV05 KING2001 L06-6-1 R109-29
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: MICHOUD ASSEMBLY FACILITY SDS DATA CIRCUIT

MSFC REQUIRES A DATA CIRCUIT FOR THE TRANSMISSION
OF THE SHUTTLE DATA STREAM FROM MSFC TO THE MICHOUD
ASSEMBLY FACILITY.

POC: MSFC/GARY DEMPSEY/256 544-5113
MICHOUD ASSEMBLY FACILITY/LOCKHEED MARTIN/
JOHN/QUINTINI/504 257-2755
MICHOUD ASSEMBLY FACILITY/LOCKHEED MARTIN/
JIM FEELEY/504 257-3062

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/26/06

[PRD] DATABASE RECORD: 561734 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/12/02
INITIAL DATE: 02/12/02
ITEM NUMBER: H47G DATE LAST CHANGED: 11/16/06
SECTION: 2734 TIME LAST CHANGED: 07:13:27

REQUESTER: MSFC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2734 - VIDEO/DATA NETWORK TRANSMISSION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 561734
ITEM NUMBER: H47G

TEST CODE: MMT SIM

ASSOCIATED DOC: 20007S 20008S 20009S 20017S
20044S 20056S 25009S
TRACKING NO. COMREV05 KING2001 R109-29
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: ROCKETDYNE & USA-HUNTSVILLE SDS DATA CIRCUIT

MSFC REQUIRES A DATA CIRCUIT FOR THE TRANSMISSION OF THE SHUTTLE DATA STREAM FROM MSFC TO THE BOEING-ROCKETDYNE/UNITED SPACE ALLIANCE FACILITY RESEARCH PARK, HUNTSVILLE, AL.

POC: MSFC/GARY DEMPSEY/256 544-5113
RANDY ZELICK/256 971-4531

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/13/02

[PRD] DATABASE RECORD: 581362 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/06/05
INITIAL DATE: 04/06/05
ITEM NUMBER: KHT50G DATE LAST CHANGED: 01/11/07
SECTION: 2734 TIME LAST CHANGED: 12:33:17

REQUESTER: KSC MSFC JSC
SUBREQUESTER: KSC/NE-M7
TEST CODE: LAUNCH STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. L05-3-6

1. DESCRIPTION: EPOCC DATA

NISN IS TO PROVIDE A PIP SERVICE OF 150MBPS OF BANDWITH

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2734 - VIDEO/DATA NETWORK TRANSMISSION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 581362
ITEM NUMBER: KHT50G

ALLOWING BURSTING UP TO 200MBPS FOR THE TRANSFER OF EPOCC DATA FROM KSC TO JSC AND MSFC.

TECHNICAL CONTACT: KSC/PH-H3/TOM FORD/321 861-3635

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/22/05
RESPONSE TRACKING: Z0505-3

[PRD] DATABASE RECORD: 581974 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/20/05
INITIAL DATE: 04/20/05
ITEM NUMBER: T51G DATE LAST CHANGED: 11/16/06
SECTION: 2734 TIME LAST CHANGED: 07:13:28

REQUESTER: JSC
SUBREQUESTER: JSC/WS8
TEST CODE: ALPHSE LANDNG LAUNCH STSALL

ASSOCIATED DOC: 20007S 20028S
TRACKING NO. L05-4-2 R0505-6

1. DESCRIPTION: LIGHTNING DETECTION AND RANGING (LDAR)

PROVIDE A COMMUNICATIONS LINE TO HANDLE THE TRANSFER OF TOTAL LIGHTNING INFORMATION FROM THE KSC LIGHTNING DETECTION AND RANGING (LDAR) TO THE SPACEFLIGHT METEOROLOGY GROUP AT JSC. THIS DATA IS NEEDED FOR EVALUATING LIGHTNING-RELATED FLIGHT RULES FOR SPACE SHUTTLE LAUNCH ABORTS AND PLANNED END-OF-MISSION LANDINGS.

COMMUNICATIONS LINE TO TRANSFER LDAR VERY HIGH FREQUENCY (VHF) LIGHTNING LOCATION AND CLOUD-TO-GROUND LIGHTNING SURVEILLANCE SYSTEM (CGLSS) DATA FROM THE KSC CENTRAL DISTRIBUTION AND SWITCHING CENTER (CD&SC) BUILDING TO JSC BUILDING 30, ROOM 239.

DATA REQUIRED: LDAR VHF SOURCE LOCATIONS FOR LIGHTNING DETECTION DATA TO BE REPORTED IN REALTIME AS PROCESSED AT THE POSITION ANALYZER.

CONTINUED

[PRD] DATABASE RECORD: 581974
ITEM NUMBER: T51G

DATA TO INCLUDE ALL LDAR SOURCE LOCATIONS PROCESSED BY THE KSC LDAR POSITION ANALYZER.

LOCATION: FROM THE KSC TO JSC BLDG. 30, ROOM 239

COMMUNICATIONS PROTOCOL: TCP/IP

DATA REQUIREMENTS: DATA LATENCY < 1 MINUTE

THE CIRCUIT WILL BE AVAILABLE AS LISTED IN THE FOLLOWING TABLE:

TIME NEEDED	PRIORITY	RATIONALE
L-36 HRS THRU END-OR-MISSIONS	REQUIRED	END-OF-MISSION RTLS/AOA/1ST DAY PLS, AND ELS ABORT LANDING WEATHER FORECAST PREPARATION
24 HOURS DAILY OTHER TIMES	DESIRED	MISSION SIMULATION TRAINING AND CLIMATOLOGICAL ANALYSIS

POC: JSC/ZS8/WAYNE BAGGETT/GEORGE.W.BAGGETT@NASA.GOV/281 483-2226

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/24/06
RESPONSE TRACKING: Z0506-2

[PRD] DATABASE RECORD: 585817 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/06/06
INITIAL DATE: 01/06/06
ITEM NUMBER: K52G DATE LAST CHANGED: 11/16/06
SECTION: 2734 TIME LAST CHANGED: 07:13:29

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L KSC/USK-122
TEST CODE: KSC LANDING LAUNCH

ASSOCIATED DOC: 20007S 20026S
TRACKING NO. R0601-1

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2734 - VIDEO/DATA NETWORK TRANSMISSION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 585817
ITEM NUMBER: K52G

1. DESCRIPTION: SHUTTLE DATA STREAM (SDS) TO DFRC

KSC REQUIRES A T1 DATA CIRCUIT FOR THE TRANSMISSION OF THE SHUTTLE DATA STREAM DATA FROM KSC TO DFRC.

NOTE: THIS IS IN SUPPORT OF THE INCREASED BANDWIDTH REQUIRED FOR PC GOAL 2.

POC: KSC/GARTH TURNER/321 861-7698

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/24/06
RESPONSE TRACKING: Z0601-1

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD:	244104	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	LLS	APPROVAL DATE:	12/06/01
		INITIAL DATE:	07/18/89
ITEM NUMBER:	K1DEGHKTXY	DATE LAST CHANGED:	05/30/07
SECTION:	2750	TIME LAST CHANGED:	10:41:29

REQUESTER: KSC
SUBREQUESTER: KSC/IT-D2-A
TEST CODE: EAFB INFO STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 L2814 L3923 L5551
L6104 L8108 MK98 R109-1 R109-89
R2657 R2862 R9304
PRIORITY: REQUIRED
RATIONALE: INFORMATION ONLY.

1. DESCRIPTION: COMMUNICATION ACCESS CONTROL

THOSE CIRCUITS CATEGORIZED AS EITHER PRIVATE OR OPERATIONS CRITICAL REQUIRE OPERATIONAL ACCESS APPROVAL IN ACCORDANCE WITH NMI 8610.11 PRIOR TO DOCUMENTATION IN THE LAUNCH AND LANDING PRD. PRIOR TO SUBMITTAL OF A CIRCUIT REQUIREMENT IN THE PRD, IT IS NECESSARY TO CONSULT THE APPROPRIATE ACCESS CONTROLLER (IDENTIFIED BELOW) FOR THE CIRCUIT CRITICALITY PREVIOUSLY ASSIGNED OR FOR ACCESS TO CIRCUITS NOT CURRENTLY DOCUMENTED.

COMMUNICATIONS ACCESS CONTROLLERS:

JSC:	KEN JONES	GSFC:	SEATON NORMAN	MSFC:	PHILIP CAUTHEN
	JSC/DV		GSFC/CODE 731		MSFC/EO60
	281 483-7671		301 286-8676		256 544-4204
KSC:	MONIQUE MCLAMB	DFRC:	RICH ROOD	HSFS:	JOHN SUMMERS
	KSC/IT-D2-A		DFRC/F		HSFS-O
	321 867-8540		661 276-2138		321 494-8581
ER:	LT COL VINCENT MOORE	NASA HQS:	JOHN TINSLEY		
	45 RANS/SO		US		
	321 853-8434		202 358-4404		
	(LEAD RANGE)				

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)

CONTINUED

[PRD] DATABASE RECORD: 244104
ITEM NUMBER: K1DEGHKTXY

RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 12/06/01
RESPONSE TRACKING: Z104-1 Z8134

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 12/06/01
RESPONSE TRACKING: Z109-1 Z8134 Z9304

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 12/06/01
RESPONSE TRACKING: Z109-1 Z8134 Z9304

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: PHILIP CAUTHEN/544-4204

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 12/06/01
RESPONSE TRACKING: Z109-1 Z8134 Z9304

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-B KICS-105

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 12/06/01
RESPONSE TRACKING: Z109-1 Z2853 Z2886 Z8134 Z9304

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 12/06/01
RESPONSE TRACKING: Z109-1 Z8134 Z9304

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 12/06/01

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 244104
ITEM NUMBER: K1DEGHKTXY

RESPONSE TRACKING: Z109-1 Z8134 Z9304

SUPPLIER: NASA HQ AGENCY: NASA/HQ (NASA HEADQUARTERS (WASHINGTON))

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 12/06/01
RESPONSE TRACKING: Z109-1 Z8134 Z9304

[PRD] DATABASE RECORD: 212815 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/09/06
INITIAL DATE: 12/17/90
ITEM NUMBER: K2DEGHKTXYZ DATE LAST CHANGED: 05/31/07
SECTION: 2750 TIME LAST CHANGED: 10:23:04

REQUESTER: KSC
SUBREQUESTER: PH-B
TEST CODE: EAFB INFO STSALL

ASSOCIATED DOC: 20026S

TRACKING NO.	A106-1	DB98	GSFC-012	KING2001	L01-9-2
	L01-9-2A	L03-12-2	L04-2-1	L04-2-2	L04-5-2
	L05-1-4	L05-2-7	L05-2-8	L05-3-2	L202-6
	L202-6A	L2625	L2629	L2805	L2907
	L2938	L3520	L3524	L4508	L4510
	L4531	L4728	L4924	L501-2	L501-A
	L5803	L5910	L610-8	L6304	L704-1
	L8012	L8108	L8401	R0312-4	R0402-1
	R0402-3	R0405-2	R0502-2	R0502-9	R0504-3
	R107-3	R108-7	R109-1	R109-89	R26252
	R2802	R3514	R3907	R4403	R8105
	R8403				

PRIORITY: REQUIRED
RATIONALE: INFORMATION ONLY.

1. DESCRIPTION: SHUTTLE SUPPORT

NOTES:
1. SPECIFIC VOICE COMM. CAPABILITY REQUESTED IN THE PRD HAS BEEN APPROVED IN ACCORDANCE WITH ACCESS CONTROL PROCEDURES.
2. KSC OIS CHANNELS DOCUMENTED IN THIS SECTION ARE APPLICABLE TO THE COMPLEX 39 AREA OIS CHANNELIZATION UNLESS SPECIFICALLY

CONTINUED

[PRD] DATABASE RECORD: 212815
ITEM NUMBER: K2DEGHKTXYZ

IDENTIFIED AS KSC INDUSTRIAL AREA OIS.

3. CODES USED TO INDICATE CRITICALITY CLASS ARE: N/C NON CRITICAL, PVT PRIVATE, AND O/C OPERATIONS CRITICAL.

TITLE	OIS CHANNEL	ITEM	COGNIZANT AGENCY	CRITICALITY
AIR-TO-GROUND-1 (V-1)	(OIS-212)	63	JSC	O/C
AIR-TO-GROUND-1	(OIS-212)	47	KSC	O/C
AIR-TO-GROUND-1 (ASTRO-COMM)		64	GSFC	O/C
AIR-TO-GROUND-2 (V-2)(GCN-3)	(OIS-219)	65	GSFC	O/C
AIR-TO-GROUND-2 (A/G-2)	(OIS-213)	48	KSC	O/C
AIR-TO-GROUND-2 (ASTRO-COMM)		66	GSFC	O/C
AIR-TO-GROUND UHF		68	JSC	O/C
AIR WEATHER NET UHF 279.0 (DFRC)		113	JSC/DFRC	O/C
AIR WEATHER NET VHF 126.5 MHZ (WSSH)		114	WSTF	O/C
AIR WEATHER NET VHF 126.65 MHZ (KSC)		112	KSC/JSC	O/C
ALS CONVOY COMMANDER VHF NET		140	KSC/GSFC	O/C
BIOMED	(OIS-163)	34	KSC	O/C
BOEING COORD	(OIS-216)	51	JSC/B-NS	O/C
CAPE FLT CONT OFFICER PVT LINE (CAPE FCO PL)		130	JSC	PVT
CCMS MASTER CONSOLE FR 1/3/4	(OIS-127)	7	KSC	O/C
CONTROL ROOM COORD & B/U	(OIS-131)	8	KSC	O/C
CONVOY COMMANDER NET		76	KSC	O/C
COOLING NET		77	KSC	O/C
CRANE OPS		147	WSTF	
CRYO CONFERENCE	(OIS-261)	61	KSC	O/C
DATA PROCESSING SYSTEM-1	(OIS-152)	27	KSC	O/C
HSFS (DDMS) COORDINATION		74	ER/DDMS	O/C FULLTIME
DOD COORDINATION (DOD COORD)		75	ER/DDMS	O/C FULLTIME
HSFS LOCAL		116	ER/DDMS	O/C
DOD PATCH 1		71	ER/DDMS	O/C FULLTIME
DOD PATCH 2		72	ER/DDMS	O/C FULLTIME
DOD PATCH 3		73	ER/DDMS	O/C FULLTIME

CONTINUED

[PRD] DATABASE RECORD: 212815
ITEM NUMBER: K2DEGHKTXYZ

DOLILU COORD		131	JSC	O/C	FULLTIME
ECLSS-1	(OIS-143)	20	KSC	O/C	
ECLSS-2	(OIS-243)	21	KSC	O/C	
ECS-1	(OIS-172)	38	KSC	O/C	
ELECT. PWR DIST AND CONTROL	(OIS-151)	26	KSC	O/C	
ENGINEERING SUPPORT AREA	(OIS-245)	60	KSC	O/C	
ET ELECTRICAL	(OIS-176)	41	KSC	O/C	
ET CONFERENCE		81	MSFC	O/C	
ET ICE	(OIS-222)	56	KSC	O/C	
ETL ICE	(OIS-322)	142	KSC	O/C	
ET PNEUMATICS	(OIS-186)	44	KSC	O/C	
ET SRB TEST CONDUCTOR	(OIS-136	14	KSC	O/C	
ET/SRB OPS	(OIS-137)	15	KSC	O/C	
ER TELEMETRY COORDINATION		87	ER	O/C	
FAA/ATC		133			
FCOD OPS		118	KSC	N/C	
FLIGHT CONTROL-1	(OIS-171)	37	KSC	O/C	
FLT CONTROL OFFICER (FCO) PRIME		101	JSC	O/C	
FLIGHT DIRECTOR (FD)		88	JSC	PVT	
FLIGHT SOFTWARE (FSW) MGMT		149	JSC	O/C	
FUEL CELLS-1	(OIS-153)	28	KSC	O/C	
G&N	(OIS-141)	17	KSC	O/C	
GND CNTL/NTWK OPS MGR (GC NOM)		134	GSFC	N/C	
GSFC COMM COORD.		117	GSFC		
GSFC GCN-1	(0IS-217)	52	GSFC	O/C	
GSFC GCN-2	(OIS-218)	53	GSFC	O/C	
GSFC GCN-3	(OIS-219)	54	GSFC	O/C	
GSFC/MSFC COORD (G/M COORD)		146	GSFC		
GSFC ORBIT DETERMINATION FACILITY (ODF)		89	GSFC	O/C	FULLTIME
GSFC ORDER WIRE (CAPE ORDER WIRE)		145	GSFC	O/C	
HAZARDOUS GAS DETECTION SYS. (HGDS)	(OIS-177)	42	KSC	O/C	
HYDRAULICS/ORBITER-1	(OIS-182)	43	KSC	O/C	
HYDRAULICS/SRB	(OIS-187)	45	KSC	O/C	
HYPERGOLIC FUEL-1	(OIS-147)	25	KSC	O/C	
HYPERGOLIC OXID-1	(OIS-157)	31	KSC	O/C	
INMARSAT COORD (SIG. REQ) (6737)		124	GSFC/KSC	O/C	

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[PRD] DATABASE RECORD: 212815
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INTERCOMM-A	(OIS-214)	49	KSC	O/C	
INTERCOMM-B	(OIS-215)	50	KSC	O/C	
INTEG TECH	(OIS-6008)	144	KSC	O/C	
INDEP TECH AUTH (ITA) COORD		148	KSC	O/C	
JSC/MILA A/G 1	(OIS-212)	135	JSC	O/C	
JSC/MILA A/G 2	(OIS-213)	136	JSC	O/C	
JSC/MILA A/G 3	(OIS-212)	137	JSC	O/C	
JSC/MILA A/G 4	(OIS-213)	138	JSC	O/C	
JSC/MILA ORDER WIRE		90	JSC	O/C	FULLTIME
KMCC COORD		126	KSC/MSFC	O/C	
KSC LNCH/LNDG AIRCRAFT CNTL CKT		91	KSC	O/C	
KSC/MSFC COMM COORD		97	KSC	0/C	
LANDING FIELD PRIME 1 (L/F PR-1)		79	JSC/KSC	O/C	
LANDING FIELD PRIME 2 (L/F PR-2)		80	JSC/KSC	O/C	
LANDING RECOVERY DIR (LRD)	(OIS-135)	13	KSC	O/C	
LEAD RANGE COORD		70	ER/GSFC	O/C	
LIQUID HYDROGEN	(OIS-166)	35	KSC	O/C	
LIQUID OXYGEN	(OIS-156)	30	KSC	O/C	
LLTDS COORDINATION (LLTDS COORD)		92	JSC	O/C	FULLTIME
LPS COORD (NON SECURE)		192	MSFC/KSC	O/C	
LSEAT COORD		143	JSC	O/C	
MAIN PROPULSION SYS-1	(OIS-168)	36	KSC	O/C	
MCC/OIS PATCH 1 THRU 7		4	KSC	O/C	
MDM ORDERWIRE		129	GSFC	O/C	FULLTIME
MECH & ARMS	(OIS-142)	18	KSC	O/C	
MECH & ARMS B/U	(OIS-242)	19	KSC	O/C	
MILA AIR-TO-GROUND (MILA A/G)(UHF B/U)		69	JSC	O/C	
MILA DELAY VERIFY-1		93	JSC	O/C	FULLTIME
MILA DELAY VERIFY-2		94	JSC	O/C	FULLTIME
MISSION AUDIO		95	JSC	N/C	FULLTIME
MER COORD		150	JSC	O/C	

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
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[PRD] DATABASE RECORD: 212815
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MISSION AUDIO/PRESS CONF/INTERVIEW CIR		115	KSC	N/C	
MISSION COMM COORDINATION		96	JSC	N/C	FULLTIME
MPS CONFERENCE		82	MSFC	O/C	
MSFC COORD	(OIS-263)	62	KSC	O/C	
NAVAGATION AIDS	(OIS-173)	39	KSC	O/C	
NTD INTEGRATION	(OIS-232)	58	KSC	O/C	
OIS CONTROLLER	(OIS-117)	6	KSC	O/C	
OIS-1 THRU OIS-8		3	MSFC	N/C	
OPERATIONAL TV CONTROLLER	(OIS-138)	16	KSC	O/C	
ORBITER COMM-1	(OIS-155)	29	KSC	O/C	
ORBITER INSTRUMENTATION	(OIS-145)	22	KSC	O/C	
ORBITER INSTRUMENTATION B/U	(OIS-252)	23	KSC	O/C	
ORBITER PROJECT OFFICE (OPO)		98	JSC/KSC	O/C	
ORBITER TEST CONDUCTOR	(OIS-132)	9	KSC	O/C	
ORBITER UHF	(OIS-211)	46	KSC	O/C	
ORBITER UHF (ASTRO-COMM)		67	KSC	O/C	
PAYLOAD MGMT 3	(OIS-133)	10	KSC	O/C	
PAYLOAD TEST CONDUCTOR (PTC)	(OIS-134)	11	KSC	O/C	
PAYLOAD TEST CONDUCTOR (B/U)	(OIS-234)	12	KSC	O/C	
PROJECT ENGINEER-1	(OIS-161)	32	KSC	O/C	
PROJECT ENGINEER-2	(OIS-262)	33	KSC	O/C	
PUBLIC AFFAIRS OFF COORD (PAO COORD)		99	NASA HQ	PVT	FULLTIME
PUBLIC AFFAIRS OFF CUE (PAO CUE)		100	JSC	N/C	FULLTIME
PURGE NET		78	KSC	O/C	
R/S AND SRB INSTRUMENTATION	(OIS-175)	40	KSC	O/C	
RCO COMPOSITE		115	ER	N/C	
RPS OPS/MAIN	(OIS-238)	59	KSC	O/C	
RADAR SYSTEM		151	JSC	O/C	
SAFE OPS		152	JSC	O/C	
SELECTED AIR-TO-GROUND 1 (SEL A/G 1)		102	JSC	O/C	FULLTIME
SITE COORDINATION (SITE COORD)		103	GSFC	O/C	
SHUTTLE SUPPORT COORD		132	JSC	O/C	
SHUTTLE WEATHER COORD		120	JSC	O/C	
SPACE FLIGHT OPERATIONS CONTRACT (SFOC)		141	JSC	O/C	
SPACE SHUTTLE PROGRAM OFFICE (SSPO)		104	NASA HQ/MK	O/C	FULLTIME

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[PRD] DATABASE RECORD: 212815
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SRM & QA COORD (SAFE COORD)		128	NASA HQS	O/C	
SRB RETRIEVAL OPS - CCAFS HF		83	KSC	O/C	
SRB CONFERENCE		84	MSFC	O/C	
SRM CONFERENCE		85	MSFC	O/C	
SSME CONFERENCE		86	MSFC	O/C	
SSME-1/SSMEC-1	(OIS-146)	24	KSC	O/C	
SSP LEAD ENGINEER		156	JSC		
STAFF ENGINEER (STAFF ENGR)		105	JSC/KSC	N/C	
STATUS LINK		125	GSFC	O/C	
SUPPORT AUDIO		106	JSC	O/C	FULLTIME
SUPPORT TEST MGR NO. 1	(OIS-111)	5	KSC	O/C	
SURGEON		107	JSC	O/C	
SYSTEM ENGINEER COORD	(OIS-6007)	145	KSC	O/C	
TAL LANDING FIELD (9907)		121	JSC	O/C	
TAL WEATHER OBSERVER (9906)		122	JSC	O/C	
TAL AIRCRAFT/ORBITER (9908)		123	JSC	O/C	
TELEVISION CONFERENCE (TV CONF)		127	JSC	O/C	FULLTIME
TELEVISION DIR (AT DFRC) (TV DIR)		108	JSC	N/C	
TN COORD		139	GSFC/JSC	O/C	
TRACKING COORDINATION		109	JSC	O/C	
USA INTEGRATION		153	JSC		
VIDEO OPERATIONS (VIDEO OPS)		110	JSC	O/C	FULLTIME
VOICE/DATA CIRCUITS		125	GSFC		
WEATHER COMMENTARY		111	ER	N/C	
WEATHER NET (JSC)		119	JSC	N/C	
WSMR COMM COORD		140	JSC	N/C	FULLTIME
WEATHER & TROUBLESHOOTING	(OIS-231)	57	KSC	O/C	
WSSH DELAY VERIFY-1		154	GSFC		
WSSH DELAY VERIFY-2		155	GSFC		

POC: TED MOSTELLER/PH-L/321 861-9307

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

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[PRD] DATABASE RECORD: 212815
ITEM NUMBER: K2DEGHKTXYZ

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 11/09/06
RESPONSE TRACKING: Z0402-2 Z0402-4 Z109-1 Z2801 Z6905
Z6931 Z8134 Z8415

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 11/09/06
RESPONSE TRACKING: Z0402-2 Z0402-4 Z109-1 Z2801 Z7001
Z7504 Z8134 Z8407 Z8416

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 11/09/06
RESPONSE TRACKING: Z0402-2 Z0402-4 Z0504-3 Z109-1 Z2801
Z6918 Z7105 Z8114 Z8134 Z8414

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 11/09/06
RESPONSE TRACKING: Z0402-2 Z0402-4 Z109-1 Z2801 Z6908
Z7403 Z8134 Z8410

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-B KICS-105

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 11/09/06
RESPONSE TRACKING: Z0402-2 Z0402-4 Z109-1 Z26119 Z26193
Z2801 Z2878 Z2909 Z2972 Z3528
Z4401 Z4921 Z6936 Z8134 Z8409
Z8416

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
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[PRD] DATABASE RECORD: 212815
ITEM NUMBER: K2DEGHKTXYZ

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 11/09/06
RESPONSE TRACKING: Z0402-2 Z0402-4 Z109-1 Z2801 Z6902
Z6907 Z8106 Z8134 Z8403 Z8408

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 11/09/06
RESPONSE TRACKING: Z0402-2 Z0402-4 Z0502-1 Z109-1 Z2801
Z6926 Z8134 Z8413

SUPPLIER: NASA HQ AGENCY: NASA/HQ (NASA HEADQUARTERS (WASHINGTON))

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 11/09/06
RESPONSE TRACKING: Z0402-2 Z0402-4 Z109-1 Z2801 Z6925
Z8134 Z8416

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 11/09/06
RESPONSE TRACKING: Z0402-2 Z0402-4 Z109-1 Z2801 Z7925
Z8134 Z8405 Z8412

[PRD] DATABASE RECORD: 284340 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/28/02
INITIAL DATE: 10/31/01
ITEM NUMBER: H3H DATE LAST CHANGED: 03/15/06
SECTION: 2750 TIME LAST CHANGED: 09:43:24

REQUESTER: MSFC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20008S 20009S 20014S
20017S 20024S 20037S 20044S
25009S 25407B
TRACKING NO. COMREV05 KING2001 R109-1
PRIORITY: REQUIRED

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
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[PRD] DATABASE RECORD: 284340
ITEM NUMBER: H3H

RATIONALE: STS VOICE LOOPS REQUIRED FOR COGNIZANT ENGINEERS AT MSFC AND AT REMOTE LOCATIONS TO MONITOR THE PROGRESS OF SHUTTLE TESTING AND LAUNCH SUPPORT.

1. DESCRIPTION: OIS-1 THRU OIS-8 PATCHABLES TO MSFC

RESPONSIBLE AGENCY: MSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
H1	7,8,9,14, 17,24,37, 44,25009 25407	T/M		HOSC FOR DISTRIBUTION

POC: MSFC/PHILIP CAUTHEN/256 544-4204
TECH CONTACT: SCOTT SCHUTZENHOFER/MP71/256-544-8496

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/28/02
RESPONSE TRACKING: Z109-1

[PRD] DATABASE RECORD: 286498 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/07/03
INITIAL DATE: 10/04/91
ITEM NUMBER: H3.1K DATE LAST CHANGED: 02/01/07
SECTION: 2750 TIME LAST CHANGED: 14:00:40

REQUESTER: MSFC
TEST CODE: S0017.100 S61E16 STSALL STSR28 STSR38 SUPSIM

ASSOCIATED DOC: 20007S 20008S 20009S 20014S 20017S 20024S 20037S 20044S 25009S 25407B

TRACKING NO. COMREV05 KING2001 L2613 L2961 L3309 L3534 L4615 L501-2 L5329 L6304 L6709 LSRR33001 M002-9 ML012-90 R109-89

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
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[PRD] DATABASE RECORD: 286498
ITEM NUMBER: H3.1K

R26157 R2669 R2818 R2827 R2844
R2891 R3110 R4419 RSRR128 RSRR136
RTF114-2

1. DESCRIPTION: IT IS REQUESTED THAT THE FOLLOWING LC-39 OIS CIRCUITS BE MADE AVAILABLE AT KSC/CDSC FOR SWITCHING TO MSFC BLDG 4207 VIA THE SWITCHABLE CIRCUITS OIS 1 THRU 8 (SEE SECTION 2700 ITEM H17GK, DBR 227709). SWITCHING WILL BE COORDINATED VIA MSFC COMM COORD.

MONITOR ONLY:

1. OIS-132 ORBITOR TEST CONDUCTOR
2. OIS-135 LANDING/RECOVERY DIRECTOR
3. OIS-136 TANK BOOSTER CONDUCTOR
4. OIS-146 *SSME-1/SSMEC-1
5. OIS-152 DATA PROCESSING SYSTEM-1
6. OIS-156 LIQUID OXYGEN
7. OIS-166 LIQUID HYDROGEN
8. OIS-175 R/S AND SRB INSTRUMENTATION
9. OIS-177 HGDS
10. OIS-182 HYDRAULICS/ORBITER-1
11. OIS-187 HYDRAULICS/SRB
12. OIS-217 GSFC GCN-1
13. OIS-218 GSFC GCN-2
14. OIS-231 WEATHER AND TROUBLESHOOTING
15. OIS-232 NTD INTEGRATION

16. N/A SRB RETRIEVAL OPS-CCAFS HF (ROUTE VIA OIS-PATCHABLES IMMEDIATELY AFTER LIFT OFF).

TERMINATION LOCATION: TERMINATE AT CDSC FOR SWITCHING TO MSFC

* ALSO EXTENDED TO MSFC FULL TIME WITH TALK CAPABILITY.

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540
MSFC/SCOTT SCHUTZENHOFER/256 544-8496

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
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[PRD] DATABASE RECORD: 286498
ITEM NUMBER: H3.1K

SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/24/03
RESPONSE TRACKING: Z0310-1 Z2687 Z2816 Z2838 Z2873
Z29111 Z3107 Z3124 Z3309 Z3536
Z4417 Z4704 Z5323 Z6706

[PRD] DATABASE RECORD: 539430 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/28/02
INITIAL DATE: 07/14/97
ITEM NUMBER: H3.2H DATE LAST CHANGED: 11/28/06
SECTION: 2750 TIME LAST CHANGED: 13:20:49

REQUESTER: MSFC
TEST CODE: S0007.100 STSALL

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. A106-1 COMREV05 KING2001 L8501 R109-89
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: MSFC/STS REMOTE VOICE LOOPS

STS VOICE LOOPS TO BE EXTENDED BY MSFC TO THE FOLLOWING REMOTE SITES:

1. MICHOUD, LA (MAF)
2. THIOKOL, UT
3. CANOGA PARK, CA
4. HERNANDEZ ENGINEERING, MSFC
5. USA, RESEARCH PARK, HUNTSVILLE, AL
6. HONEYWELL, WEST PALM BEACH, FL
7. PRATT & WHITNEY, CLEARWATER, FL

REF	CKT	ASSOC DOC	CAP	REMOTE SITE
H1	NASA TV	7,14	M	1-7
H2	STS REMOTE OPS	7,14	T	1-7
H3	LSEAT COORD	7,14	T	1

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
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[PRD] DATABASE RECORD: 539430
ITEM NUMBER: H3.2H

H4	CONF-A	7,14	T	2,3,5
H5	CONF-A	7,14	M	1,4,6,7
H6	AG-1	7,14	M	1-7
H7	AG-2	7,14	M	1-7
H8	SRM CONF	7,14	T	2,5
H9	SRM CONF	7,14	M	1,3,4,6,7
H10	FDIR	7,14	M	1-7
H11	STAFF ENG	7,14	M	1-7
H12	SAFE COORD	7,14	T	4,7
H13	SAFE COORD	7,14	M	1,2,3,5,6
H14	ET CONF	7,14	T	1
H15	ET CONF	7,14	M	2-7
H16	SRB CONF	7,14	M	1-7
H17	SSME CONF	7,14	T	2,5
H18	SSME CONF	7,14	M	1,3,4,6,7
H19	MPS CONF	7,14	T	1,3,5
H20	MPS CONF	7,14	M	2,4,6,7
H21	STS-OPS	7,14	T	1-7
H22	SSPO	7,14	M	1,2
H23	OIS-1	7,14	M	1-7
H24	OIS-2	7,14	M	1-7
H25	OIS-3	7,14	T	1-7
H26	OIS-4	7,14	T	1-7
H27	OIS-5	7,14	M	1-7
H28	OIS-6	7,14	M	1-7
H29	OIS-7	7,14	M	1-7
H30	OIS-8	7,14	M	1-7
H31	OIS-161	7,14	M	1-7
H32	OIS-245	7,14	T	1-7
H33	OIS-261	7,14	T	1,3
H34	OIS-262	7,14	M	2,4-7
H35	OIS-263	7,14	T	1-7
H36	OIS-322	7,14	T	1-2

COORD: PHILIP CAUTHEN/E060/256 544-4204
COMM CONTACT: MSFC/SCOTT SCHUTZENHOFER/256 544-8496
KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
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SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 539430
ITEM NUMBER: H3.2H

RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/28/02
RESPONSE TRACKING: Z8505

[PRD] DATABASE RECORD: 539431 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/28/02
INITIAL DATE: 07/14/97
ITEM NUMBER: H3.3GHKT DATE LAST CHANGED: 02/01/07
SECTION: 2750 TIME LAST CHANGED: 13:58:21

REQUESTER: MSFC
TEST CODE: INFO S0007.100 S0017.100 STSALL

ASSOCIATED DOC: 20007S 20014S 20017S
TRACKING NO. A106-1 COMREV05 KING2001 L8501 L8502
R109-89
PRIORITY: REQUIRED
RATIONALE: INFORMATION ONLY.

1. DESCRIPTION: LIST OF MSFC REMOTE SITES

LIST OF REMOTE SITES RECEIVING REMOTE VOICE LOOPS EXTENDED BY MSFC

USA, HUNTSVILLE USA/RESEARCH PARK, HUNTSVILLE, AL
MICHOUD, LOUSIANA HERNANDEZ, MSFC
THIOKOL, UTAH ROCKETDYNE, CANOGA PARK, CALIFORNIA
HONEYWELL, CLEARWATER, FL
PRATT & WHITNEY, WEST PALM BCH, FL

COORD: MSFC/PHILIP CAUTHEN/256 544-4204
COMM CONTACT: MSFC/SCOTT SCHUTZENHOFER/256 544-8496

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 02/28/02
RESPONSE TRACKING: Z8504

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 539431
ITEM NUMBER: H3.3GHKT

RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 02/28/02
RESPONSE TRACKING: Z8504

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 02/28/02
RESPONSE TRACKING: Z8502 Z8504

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 02/28/02
RESPONSE TRACKING: Z8503 Z8504

[PRD] DATABASE RECORD: 295559 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/14/06
INITIAL DATE: 07/15/91
ITEM NUMBER: T4KT DATE LAST CHANGED: 11/15/06
SECTION: 2750 TIME LAST CHANGED: 06:39:06

REQUESTER: JSC
TEST CODE: CKT4 STSALL

ASSOCIATED DOC: 20007S 20014S 20017S 20026S
20037S 20044S 25407B

TRACKING NO.	COMREV05	KING2001	L02-7-6	L04-2-2	L04-5-2
	L05-2-2	L05-3-3	L06-9-1	L106-1	L2733
	L2940	L310-3	L3840	L3911	L4319
	L4924	L501-2	L6304	L6709	L901-13
	L905-4	R0402-3	R0405-3	R0502-3	R0609-4
	R107-3	R109-89	R112-8	R2641	R2818
	R2827	R3910	R4301	R6101	R8304

1. DESCRIPTION: MCC/OIS PATCH 1 THRU 7 (7 NISN CHANNELS)

RESPONSIBLE AGENCY: KSC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 295559
ITEM NUMBER: T4KT

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7	T	1	CDSC FOR EXT. TO JSC-SELECTED OIS (AS REQUIRED IN REAL TIME)

TALK
SSP LEAD ENGR

MONITOR

NOTE 1: OIS PATCHABLE CIRCUITRY CAN BE USED TO RESTORE SERVICES ON ANY FAILED CIRCUIT BETWEEN JSC/KSC DURING TESTING OR MISSION OPERATIONS.

COMM CONTACT: JSC/KEN JONES/281 483-7671
KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/14/06
RESPONSE TRACKING: Z107-9 Z112-12 Z2753 Z2816 Z29106
Z3861 Z3913 Z3949 Z4304 Z4348
Z4921 Z6101 Z6706

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/14/06
RESPONSE TRACKING: Z0402-4 Z0405-2 Z107-6 Z112-10

[PRD] DATABASE RECORD: 242295 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/19/97
INITIAL DATE: 04/12/91
ITEM NUMBER: KEG5K DATE LAST CHANGED: 09/20/06

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 242295
ITEM NUMBER: KEG5K

SECTION: 2750 TIME LAST CHANGED: 07:29:42

REQUESTER:	KSC	ER		GSFC
SUBREQUESTER:	I-MIL	KSC/MK-SIO	KSC/PH-L	OMR3/4
	OSR3/4			
TEST CODE:	CKT5	STSALL	SUPSIM	
ASSOCIATED DOC:	20007S	20008S	20009S	20014S
	20017S	20026S	20027S	20028S
	25009S			
TRACKING NO.	COMREV05	DB98	KING2001	L2608 L3806
	L3916	R109-89	R2809	R8304
PRIORITY:	REQUIRED			
RATIONALE:	COMMUNICATIONS FOR USA TEST CONDUCTOR IN FIRING ROOM. BACKUP - OIS 131, OIS 232, OIS 212, AND BLACK PHONE.			

1. DESCRIPTION: SUPPORT TEST MANAGER NO. 1 OIS-111

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,8,9,14, 17,25009	T		CDSC FOR EXT. TO MIL
K2	7,8,9,14, 17,25009,26 27,28	T		CDSC FOR EXT. TO ER
				OSR3/4
Y3		M		ALL POS REF SEC 3020, ITEM HKTY1.1.1K, DBR 024257
				OMR3/4
Y4		M		ALL POS REF SEC 3020, ITEM DHKTY1.1.2K, DBR 024268

TECH CONTACT: GEORGE ODOM/USK-299/321 861-2374

COMM CONTACT: KSC/IT-D2-A/MONIQUE MCLAMB/321 867-8540

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 242295
ITEM NUMBER: KEG5K

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/19/97
RESPONSE TRACKING: Z2697 Z3819 Z3953 Z8305

[PRD] DATABASE RECORD: 276868 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/19/97
INITIAL DATE: 07/03/90
ITEM NUMBER: KG5.1GK DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:21

REQUESTER: KSC GSFC
SUBREQUESTER: KSC/PH-L
TEST CODE: CKT5 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20008S 20009S 20014S
20017S 25009S
TRACKING NO. COMREV05 DB98 KING2001 L2608 L3806
R109-89 R8304
PRIORITY: REQUIRED
RATIONALE: COMMUNICATIONS FOR USA TEST CONDUCTOR IN FIRING ROOM.
BACKUP - OIS 131, OIS 232, OIS 212, AND BLACK PHONE.

1. DESCRIPTION: SUPPORT TEST MANAGER NO. 1 OIS-111

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,8,9,14, 17,25009	T		MILa, OPS SUPV. CONSOLE

TECHNICAL CONTACT: KSC/USK-299/GEORGE ODOM/321 861-2374
MILA/MELISSA BLIZZARD/321 867-1068

COMM CONTACT: KSC/IT-D2-A/MONIQUE MCLAMB/321 867-8540
GSFC/AL DUANY/301 286-2721

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 276868
ITEM NUMBER: KG5.1GK

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/19/97
RESPONSE TRACKING: Z2675 Z3819 Z8305

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/19/97

[PRD] DATABASE RECORD: 278661 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/27/95
INITIAL DATE: 05/24/88
ITEM NUMBER: E5.2E DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 07:07:32

REQUESTER: ER
SUBREQUESTER: KSC/PH-L KSC/TA-E
TEST CODE: CKT5 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20008S 20009S 20014S
20017S 20026S 20027S 20028S
25009S
TRACKING NO. COMREV05 KING2001 MK98 R109-89 R2809
R4218 SHAW95
PRIORITY: REQUIRED
RATIONALE: OIS 131, OIS 232, OIS 212, AND BLACK PHONE.

1. DESCRIPTION: SUPPORT TEST MANAGER NO. 1 OIS-111 (L-5 HOURS)

RESPONSIBLE AGENCY: ER

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,8,9,14, 17,25009	T		CCAFS, ROCC, SRO CONSOLE

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 278661
ITEM NUMBER: E5.2E

K2 7,14,17 T CCAFS, ROCC, NASA MGMT. CONS.

K3 7,26,27,28 T CCAFS, LRCC, NASA PROJ. CONSOLE

TECH CONTACT: ER/MIKE GAWEL/321 853-8118
KSC/PH-L/TED MOSTELLER/321 861-9307
KSC/USK-299/GEORGE ODOM/321 861-2374

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/22/95
RESPONSE TRACKING: Z2676 Z4225 Z6923

[PRD] DATABASE RECORD: 303899 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/20/07
INITIAL DATE: 04/12/91
ITEM NUMBER: KG6K DATE LAST CHANGED: 07/12/07
SECTION: 2750 TIME LAST CHANGED: 09:28:00

REQUESTER: KSC GSFC
SUBREQUESTER: FR2 I-MIL KSC/IT-D2-A KSC/MK-SIO
MSFC OMR3/4 OSR3/4
TEST CODE: CKT6 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20008S 20009S 20014S
20017S 20037S 20044S 20056S
25407B
TRACKING NO. COMREV05 DB98 KING2001 L2604 L3624
L3916 R109-89
PRIORITY: REQUIRED
RATIONALE: BACKUP - BLACK PHONE 7-4141

1. DESCRIPTION: OIS CONTROLLER OIS-117

RESPONSIBLE AGENCY: KSC

CONTINUED

[PRD] DATABASE RECORD: 303899
ITEM NUMBER: KG6K

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,8,9,14,17, 37,44,56, 25321B	T		CDSC FOR DIST
K2	7,14	T		CDSC FOR EXT. TO MILA
K2.1	7,14	T		CDSC FOR EXT TO XY (SEE NOTE)
				OSR3/4
Y3		T		ALL POS REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257
				OMR3/4
Y4		T		ALL POS REF SEC 3020 ITEM DHKTY1.1.2K, DBR 024268
				FR2
T5				ALL JSC CONS REF SEC 3020 ITEM T44.1K, DBR 024313
H6				ALL MSFC CONS AT KSC. REF SEC 3020 ITEM H46.1K, DBR 024286

COMM CONTACT: MONIQUE MCLAMB/IT-D2-A/321 867-8540

NOTE: THIS CIRCUIT EXTENDED TO THE RANGE FOR DISTRIBUTION TO
INDYNE PHOTO PERSONNEL CONSOLE.
CONTACT: ROBBIE ROBINSON/321 853-5387

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/20/07

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 303899
ITEM NUMBER: KG6K

RESPONSE TRACKING: Z2697 Z3621 Z3953

[PRD] DATABASE RECORD: 309423 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/25/88
INITIAL DATE: 05/25/88
ITEM NUMBER: G6.1G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:22

REQUESTER: GSFC
SUBREQUESTER: KSC/IT-D2-A
TEST CODE: CKT6 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. COMREV05 DB98 KING2001 L2608 R109-89
PRIORITY: REQUIRED
RATIONALE: BACKUP - BLACK PHONE 7-4141

1. DESCRIPTION: OIS CONTROLLER OIS-117

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,14	T		MILA, OPS SUPV. CONSOLE

POC: MILA/MELISSA BLIZZARD/321 867-1068

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540
GSFC/AL DUANY/301 286-2721

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/14/88
RESPONSE TRACKING: GSFCREV06 Z2675

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 310309 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/25/00
INITIAL DATE: 04/12/91
ITEM NUMBER: KG7K DATE LAST CHANGED: 09/20/06
SECTION: 2750 TIME LAST CHANGED: 07:32:16

REQUESTER: KSC GSFC
SUBREQUESTER: I-MIL KSC/IT-D2-A KSC/MK-SIO KSC/PH-K
OMR3/4 OSR3/4
TEST CODE: CKT7 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20009S 20014S 20017S
TRACKING NO. COMREV05 DB98 KING2001 L2908 L3916
L9201 R109-89 R8304
PRIORITY: REQUIRED
RATIONALE: BACK-UP OIS 128

1. DESCRIPTION: CCMS MASTER CONSOLE FR 3/4 OIS-127

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
Y1	7,14,17,44	T		CDSC FOR DIST
K2	7,14,17,44	T		CDSC FOR EXTN. TO MILA
				OSR3/4
Y3	7,14,17,44	M		ALL POS REF SEC 3020, ITEM HKTY1.1.1K, DBR 024257
				OMR3/4
Y4	7,14,17,44	M		ALL POS REF SEC 3020, ITEM DHKTY1.1.2K, DBR 024268

POC: ARNOLD POSTELL/PH-K/321 861-3771

COMM CONTACT: MONIQUE MCLAMB/IT-D2-A/321 867-3450

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

CONTINUED

[PRD] DATABASE RECORD: 310309
ITEM NUMBER: KG7K

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/25/00
RESPONSE TRACKING: Z3953 Z8305 Z9201

[PRD] DATABASE RECORD: 311250 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/19/97
INITIAL DATE: 05/25/88
ITEM NUMBER: KG7.1GK DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:23

REQUESTER: KSC GSFC
SUBREQUESTER: KSC/IT-D2-A
TEST CODE: CKT7 STSALL SUPSIM

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 DB98 KING2001 L2608 R109-89
R8304
PRIORITY: REQUIRED
RATIONALE: BACKUP - OIS 128

1. DESCRIPTION: CCMS MASTER CONSOLE MSN 1/3/4 OIS-127

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7	T		MILA, OPS SUPV. CONSOLE

TECH CONTACT: MILA/MELISSA BLIZZARD/321 867-1068
COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540
GSFC/AL DUANY/301 286-2721

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/19/97
RESPONSE TRACKING: GSFCREV06 Z26109 Z8305

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

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[PRD] DATABASE RECORD: 311250
ITEM NUMBER: KG7.1GK

SUBSUPPLIER: IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/19/97

[PRD] DATABASE RECORD: 350266 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/18/90
INITIAL DATE: 10/18/90
ITEM NUMBER: KE8K DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 07:23:01

REQUESTER: KSC ER
SUBREQUESTER: KSC/IT-D2-A KSC/PH-L KSC/TA-E
TEST CODE: CKT8 S51E09 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S 20026S
20027S 20028S 20037S 25009S
TRACKING NO. A5501 COMREV05 DB98 KING2001 L2631
L2675 L2907 L3806 L3840 R109-89
R26252 R2658
PRIORITY: MANDATORY
RATIONALE: BACKUP TO SEVERAL CRITICAL CHANNELS INCLUDING NTD.

1. DESCRIPTION: CONTROL ROOM COORD & B/U (OIS-131)

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,14,17,26,27 37,25009	T		CDSC FOR DISTRIBUTION
K2	7,14,17,26, 28,37,25009	T		CDSC EXT TO CCAFS XY

PRIME: KSC/PH-L/TED MOSTELLER/321 861-9307
POC: KSC/TA-E/DAVE PHILLIPS/321 494-9167

COMM CONTACT: KSC/IT-D2-A/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 350266
ITEM NUMBER: KE8K

SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/18/90
RESPONSE TRACKING: Z26193 Z26208 Z2697 Z2972 Z3819
Z3861

[PRD] DATABASE RECORD: 357498 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/21/98
INITIAL DATE: 02/15/91
ITEM NUMBER: E8.1E DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 07:24:37

REQUESTER: ER
SUBREQUESTER: KSC/IT-D2-A KSC/PH-L KSC/TA-E
TEST CODE: CKT8 S51E09 STSALL

ASSOCIATED DOC: 20007S 20014S 20017S 20026S
20027S 20028S 20037S
TRACKING NO. COMREV05 KING2001 L2653 L2907 L3840
L3918 L6827 L9503 MK98 R109-89
R26252 R2658 R3443 SHAW95
PRIORITY: MANDATORY
RATIONALE: CHANGED TO MANDATORY - OIS 131 IS BACKUP TO SEVERAL HIGHLY DESIRABLE OIS CHANNELS.

1. DESCRIPTION: CONTROL ROOM COORD & B/U (OIS-131) (L-5 HOURS)

RESPONSIBLE AGENCY: ER

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,14,17, 26,27,28,37	T		CCAFS, ROCC
K2	7,14,17,	M		CCAFS, ROCC, NASA MGMT CONSOLES
K3	7,14,17, 26,27,28	M		CCAFS, LRCC, NASA PROJECT CONSOLE
K4	7,14,17	T		CCAFS, ROCC, EEC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 357498
ITEM NUMBER: E8.1E

PRIME: KSC/PH-L/TED MOSTELLER/321 861-9307
POC: ER/MIKE GAWEL/321 853-8118
KSC/TA-F-A/DAVE PHILLIPS/321 494-6272

COMM CONTACT: KSC/IT-D2-A/MONIQUE MCLAMB/321 867-8540

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/26/98
RESPONSE TRACKING: Z26209 Z2924 Z2972 Z3428 Z3861
Z3955 Z6828 Z6923 Z9511

[PRD] DATABASE RECORD: 313501 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/19/97
INITIAL DATE: 04/12/91
ITEM NUMBER: KHT9K DATE LAST CHANGED: 09/20/06
SECTION: 2750 TIME LAST CHANGED: 07:35:52

REQUESTER:	KSC	MSFC	JSC	
SUBREQUESTER:	ESA	FR2	KSC/MK-SIO	KSC/PH-L
	OMR3/4	OSR3/4		
TEST CODE:	CKT9	S61C04	S61E16	STSALL
	STSR28	SUPSIM		

ASSOCIATED DOC:	20007S	20009S	20014S	20017S	
	20037S	20044S	25009S		
TRACKING NO.	COMREV05	DB98	ER9408	KING2001	L2604
	L2919	L3534	L3611	L3624	L3840
	L3856	L3916	L4526	L5216	L5319
	ML012-90	R109-89	R26157	R26185	R2658
	R3114	R4212	R6560	R8304	RSRR136
PRIORITY:	MANDATORY				
RATIONALE:	OTC MAIN COMMUNICATION CHANNEL				

1. DESCRIPTION: ORBITER TEST CONDUCTOR OIS 132

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[PRD] DATABASE RECORD: 313501
ITEM NUMBER: KHT9K

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,9,14, 17	M		CDSC FOR EXT. TO JSC
H2	7,9,14,17,37 44,25009	M		CDSC FOR SWITCHING TO MSFC
				OSR3/4
Y3				ALL POS REF SEC 3020, ITEM HKTY1.1.1K, DBR 024257
				OMR3/4
Y4				ALL POS REF SEC 3020, ITEM DHKTY1.1.2K, DBR 024268
				FR2
H5				ALL MSFC CONS REF SEC 3020, ITEM H46.1K, DBR 024286
T6				ALL JSC CONS REF SEC 3020, ITEM T44.1K, DBR 024313
				LCC ESA RM. 3R18
T7				ALL JSC CONS REF SEC 3020, ITEM T66.1K, DBR 517193

PRIME: KSC/PH-L/TED MOSTELLER/321 861-9307

TECHNICAL CONTACT: KSC/MARK PAXTON/321 861-7699
COMM CONTACT: KSC/IT-D2-A/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 313501
ITEM NUMBER: KHT9K

SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/19/97
RESPONSE TRACKING: Z2679 Z2967 Z3110 Z3536 Z3621
Z3861 Z3882 Z3953 Z4217 Z6549
Z8305

[PRD] DATABASE RECORD: 237080 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/16/03
INITIAL DATE: 07/03/90
ITEM NUMBER: T9.1T DATE LAST CHANGED: 03/22/06
SECTION: 2750 TIME LAST CHANGED: 09:56:44

REQUESTER: JSC
TEST CODE: CKT9 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20009S 20014S 20017S
20044S
TRACKING NO. COMREV05 KING2001 L03-12-2 L2604 L3806
L4526 L5216 R0312-4 R109-89 R2658
R8304

1. DESCRIPTION: ORBITER TEST CONDUCTOR OIS-132

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,9,14, 17,44	M		MCC FOR DISTRIBUTION
T2	7,9,14,17, 44	M		MCC FLIGHT DIRECTOR CONSOLE

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/16/03

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 237080
ITEM NUMBER: T9.1T

RESPONSE TRACKING: Z0312-5 Z3819 Z4540 Z5217 Z8305

[PRD] DATABASE RECORD: 339356 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/06/01
INITIAL DATE: 10/31/01
ITEM NUMBER: H9.2H DATE LAST CHANGED: 03/22/06
SECTION: 2750 TIME LAST CHANGED: 09:57:26

REQUESTER: MSFC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20008S 20009S 20014S
20017S 20037S 20044S 25009S
TRACKING NO. COMREV05 KING2001 R109-1
PRIORITY: REQUIRED
RATIONALE: STS VOICE LOOPS REQUIRED FOR COGNIZANT ENGINEERS AT MSFC AND AT REMOTE LOCATIONS TO MONITOR THE PROGRESS OF SHUTTLE TESTING AND LAUNCH SUPPORT.

1. DESCRIPTION: ORBITER TEST CONDUCTOR OIS-132

RESPONSIBLE AGENCY: MSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
H1	7,8,9,14,17 37,25009,44	M		HOSC FOR DISTRIBUTION

POC: PHILIP CAUTHEN/EO60/256-544-4204
COMM CONTACT: SCOTT SCHUTZENHOFER/MP71/256-544-8496

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/06/01
RESPONSE TRACKING: Z109-1

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 578138 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/02/04
INITIAL DATE: 11/02/04
ITEM NUMBER: T10T DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 07:31:13

REQUESTER: JSC
SUBREQUESTER: JSC/DV
TEST CODE: CKT10 STSALL

ASSOCIATED DOC: 20007S 20014S 20017S 20037S
20044S
TRACKING NO. COMREV05 L04-10-2 R0411-1

1. DESCRIPTION: PAYLOAD TEST DIRECTOR (PTD) OIS-133

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17,37,44	T		MCC FOR DISTRIBUTION

COMM CONTACT: JSC/DV/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 486-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/02/04
RESPONSE TRACKING: Z0411-1

[PRD] DATABASE RECORD: 14504 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/02/04
INITIAL DATE: 04/12/91
ITEM NUMBER: KT11K DATE LAST CHANGED: 09/20/06
SECTION: 2750 TIME LAST CHANGED: 07:37:14

REQUESTER: KSC JSC
SUBREQUESTER: FR2 FR3/4 KSC/MK-SIO OMR3/4
OSR3/4
TEST CODE: CKT10 KSC STSALL

ASSOCIATED DOC: 20007S 20014S 20017S 20037S
20044S
TRACKING NO. COMREV05 KING2001 L04-10-2 L04-5-3 L3916

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 14504
ITEM NUMBER: KT11K

L4520 R0406-1 R0411-1 R109-89 R26185
R26263 R2658
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: PAYLOAD TEST CONDUCTOR (PTC) OIS-134

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17, 37,44	T		CDSC FOR DIST
T2	7,14,17,37,44	T		CDSC EXT TO JSC
				OSR3/4
Y3				ALL POSITIONS REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257
				OMR3/4
Y4				ALL POSITIONS REF SEC 3020 ITEM DHKTY1.1.2K, DBR 024268
				FR2
T5				ALL JSC CONS REF SEC 3020 ITEM T44.1K, DBR 024313

COMM CONTACT: MONIQUE MCLAMB/321 867-8540

NOTE: REFERENCE LLP VOL II SECTION 2750 FOR FURTHER DIST.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

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[PRD] DATABASE RECORD: 14504
ITEM NUMBER: KT11K

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/02/04
RESPONSE TRACKING: Z0408-1 Z0411-1 Z26191 Z2679 Z3953
Z4537

[PRD] DATABASE RECORD: 578139 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/02/04
INITIAL DATE: 11/02/04
ITEM NUMBER: T11.1T DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 07:31:30

REQUESTER: JSC
SUBREQUESTER: JSC/DV
TEST CODE: CKT10 STSALL

ASSOCIATED DOC: 20007S 20014S 20017S 20037S
20044S
TRACKING NO. COMREV05 L04-10-2 R0411-1

1. DESCRIPTION: PAYLOAD TEST CONDUCTOR (PTC) OIS-134

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17,37,44	T		MCC FOR DISTRIBUTION

COMM CONTACT: JSC/DV/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/02/04
RESPONSE TRACKING: Z0411-1

[PRD] DATABASE RECORD: 557002 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/09/05
INITIAL DATE: 09/25/00
ITEM NUMBER: KT12K DATE LAST CHANGED: 09/20/06
SECTION: 2750 TIME LAST CHANGED: 07:37:57

CONTINUED

[PRD] DATABASE RECORD: 557002
ITEM NUMBER: KT12K

REQUESTER: KSC JSC
SUBREQUESTER: KSC/PH-I NASA HQ
TEST CODE: CKT10 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S 20037S 20044S
TRACKING NO. COMREV05 L04-10-2 L04-5-3 L05-2-2 L9201 R0406-1 R0411-1 R0502-3 R109-89
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: PAYLOAD TEST CONDUCTOR (PTC) B/U OIS-234

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17,37, 44	T		CDSC FOR DIST
T2	7,17,44	T		CDSC FOR EXT TO JSC/MCC
				OSR3/4
Y2				ALL POS REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257
				OMR3/4
Y3				ALL POS REF SEC 3020 ITEM DHKTY1.1.2K, DBR 024268
				FR2
T4				ALL JSC CONS REF SEC 3020 ITEM T44.1K, DBR 024313

POC: KSC/DEBBIE AWTONOMOW/321 861-3972

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

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[PRD] DATABASE RECORD: 557002
ITEM NUMBER: KT12K

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

NOTE: REFERENCE LLP VOL II SECTION 2750 FOR FURTHER DIST.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/09/05
RESPONSE TRACKING: Z0408-1 Z0411-1 Z9201

[PRD] DATABASE RECORD: 557139 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/09/05
INITIAL DATE: 10/04/00
ITEM NUMBER: T12.1T DATE LAST CHANGED: 05/03/06
SECTION: 2750 TIME LAST CHANGED: 07:35:17

REQUESTER: JSC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20014S 20017S 20037S
20044S
TRACKING NO. COMREV05 KING2001 L04-5-3 L05-2-2 L9205
R0406-2 R0502-3 R109-89
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: PAYLOAD TEST CONDUCTOR (PTC) B/U OIS-234

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17,37, 44	T		PAYLOAD OFFICE

COMM CONTACT: JSC/DV/KEN JONES/281 483-7671

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

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[PRD] DATABASE RECORD: 557139
ITEM NUMBER: T12.1T

NOTE: REFERENCE LLP VOL II SECTION 2750 FOR FURTHER DIST.

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/09/05
RESPONSE TRACKING: Z9205

[PRD] DATABASE RECORD: 343431 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/28/02
INITIAL DATE: 02/28/02
ITEM NUMBER: KEHT13K DATE LAST CHANGED: 09/20/06
SECTION: 2750 TIME LAST CHANGED: 07:38:45

REQUESTER:	KSC	ER	MSFC	
	JSC			
SUBREQUESTER:	FR2	I-MIL	KSC/MK-SIO	KSC/PH-L
	OMR3/4	OSR3/4	SOC	
TEST CODE:	CKT11	S61C04	S61E16	STSALL
	SUPSIM			

ASSOCIATED DOC:	20007S	20014S	20017S	20026S	
	20027S	20028S	25407B	MODE8	
TRACKING NO.	A5501	COMREV05	DB98	KING2001	L05-2-2
	L2604	L2654	L3621	L3806	L3916
	L4601	M3001	M34007	R0502-3	R109-89
	R26185	R2658	R2725	R2809	R3003
PRIORITY:	MANDATORY				
RATIONALE:	REQUIRED FOR LRD TASKING OF DoD CONTINGENCY SUPPORT.				

1. DESCRIPTION: LANDING RECOVERY DIRECTOR OIS-135

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
- -	- - - - -	- -	- -	- - - - - - - - - - - - -

CONTINUED

[PRD] DATABASE RECORD: 343431
ITEM NUMBER: KEHT13K

DEK1	7,14,17,26, 27,28,25407, MODE8	T	CDSC FOR EXTENSION TO ER
K2	7,26,27,28	T	CDSC FOR EXTENSION TO MIL
K2.1	7,26,27,28	T	CDSC EXT TO GODDARD
T3	7,17,26,27, 28	T	CDSC FOR EXTENSION TO JSC
H4	25407	M	CDSC FOR SWITCHING TO MSFC
K5	26,27	T	INTERFACE WITH LANDING FIELD PRIME 2 - CIRCUIT
			OSR3/4
			- - - - - - - - - - - - -
Y6		M	ALL POS REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257
			OMR3/4
			- - - - - - - - - - - - -
Y7		M	ALL POS REF SEC 3020 ITEM DHKTY1.1.2K, DBR 024268
			FR2
			- - - - - - - - - - - - -
T8			ALL JSC CONS REF SEC 3020 ITEM T44.1K, DBR 024313
H9			ALL MSFC CONS REF SEC 3020 ITEM H46.1K, DBR 024286

PRIME: KSC/PH-L/DON HAMMEL/321 861-9315

COMM CONTACT: KSC/IT-D2-A/MONIQUE MCLAMB/321 861-8540

NOTE: EXTEND TO INMARSAT CIRCUITS TAL LANDING FIELD, TAL AIRCRAFT ORBITER OR TAL WEATHER LANDING FOR RECOVERY OPERATIONS AT THE REQUEST OF THE GOM.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

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[PRD] DATABASE RECORD: 343431
ITEM NUMBER: KEHT13K

SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/28/02
RESPONSE TRACKING: Z26124 Z2679 Z2908 Z3004 Z3106
Z3569 Z3819 Z3953 Z4627

[PRD] DATABASE RECORD: 204621 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/27/95
INITIAL DATE: 08/21/89
ITEM NUMBER: ED13.1E DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 07:38:00

REQUESTER: ER HSFS
SUBREQUESTER: JSC/MG KSC/PH-L KSC/TA-E SOC
TEST CODE: CKT11 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S 20026S
20027S 20028S 25407B MODE8
TRACKING NO. COMREV05 KING2001 L2607 L2678 L2919
L4503 L4601 L6805 MK98 R2809
R3433 R4218 SHAW95
PRIORITY: REQUIRED
RATIONALE: BACKUP - OIS 232

1. DESCRIPTION: LANDING RECOVERY DIRECTOR OIS-135 (L-5 HOURS)

RESPONSIBLE AGENCY: ER

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,17,26,27, 28,25321	T		ROCC, SRO CONSOLE
K2	7,25321, MODE8	T		HANGAR AF RETRIEVAL OPS.
D3	7,26,27,28, 25321,MODE8	T		CCAFS, PAFB, DOD SOC
K4	7,14,17	M		CCAFS, ROCC NASA MGMT. CONSOLES
K5	7	M		CCAFS, ROCC NASA R/S REP CONS
K6	7,26,27,28, MODE8	M		CCAFS, LRCC, NASA PROJ. CONSOLE

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 204621
ITEM NUMBER: ED13.1E

K7 7,26,27,28 M CCAFS, LRCC

PRIME: KSC/PH-L/DON HAMMEL/321 861-9315

TECHNICAL CONTACT: ER/MIKE GAWEL/321 853-8118
KSC/BILL HAASE/TA-E/321 494-9167

COMM. CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/02/95
RESPONSE TRACKING: Z2676 Z2708 Z2746 Z2967 Z3422
Z4225 Z4518 Z4626 Z6820 Z6923
Z7312

[PRD] DATABASE RECORD: 288057 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/06/05
INITIAL DATE: 05/07/90
ITEM NUMBER: GK13.2G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:21

REQUESTER: GSFC KSC
SUBREQUESTER: KSC/PH-L
TEST CODE: CKT11 STSALL WSSH

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
25044S
TRACKING NO. A5501 COMREV05 DB98 GSFCREV06 KING2001
L03-6-2 L2678 L3327 L3510 L6306
L6805 R03-06-5 R0501-1 R109-89 R2809
R3433 SHAW94
PRIORITY: REQUIRED
RATIONALE: BACKUP - OIS 232

1. DESCRIPTION: LANDING RECOVERY DIRECTOR OIS-135

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 288057
ITEM NUMBER: GK13.2G

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,26,27, 28	T		MILA OPS SUPERVISOR, CD&SC EXTEND TO GSFC FOR DIST.
G2	26,27,28	T		TO THE NETWORK DIRECTOR, NIC BLDG. 13, AT LAUNCH MINUS 18 HOURS
K3	7,27	T		EXT TO WSSH VIA WSC

PRIME: KSC/PH-L/DON HAMMEL/321 861-9315
TECHNICAL CONTACT: GSFC/451/JAMES BANGERTER/301 286-7306

COMM CONTACT: GSFC/AL DUANY/301 286-2721
KSC/MONIQUE MCLAMB/321 867-8540

NOTE: EXTEND TO INMARSAT CIRCUITS TAL LANDING FIELD, TAL AIRCRAFT OR TAL WEATHER OBSERVER POST-ELS/CLS/TAL LANDING FOR RECOVERY OPERATIONS AT THE REQUEST OF THE GOM.

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/06/05
RESPONSE TRACKING: Z03-06-9 Z0501-1 Z2752 Z3339 Z3422
Z3518 Z6404 Z7101

[PRD] DATABASE RECORD: 16308 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/22/06
INITIAL DATE: 08/21/89
ITEM NUMBER: K13.2.1Z DATE LAST CHANGED: 10/31/06
SECTION: 2750 TIME LAST CHANGED: 10:39:52

REQUESTER: KSC
SUBREQUESTER: JSC JSC/MG KSC/PH-L
TEST CODE: A5501 CKT11 STSALL WSSH

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 16308
ITEM NUMBER: K13.2.1Z

ASSOCIATED DOC: 20007S 20027S
TRACKING NO. COMREV05 L2678 L6805 L908-7 R3433
SHAW94

1. DESCRIPTION: LANDING RECOVERY DIRECTOR OIS-135

RESPONSIBLE AGENCY: WSTF

REF	TEST CODE	CAP	NOTE	TERMINATION LOCATION
T1	7,27	T	1	WSSH OCC, LEVEL II REP.
K2	7,27	T	1	WSSH OCC, GROUND OPS MGR.
T3	7,27	T		WSSH OCC, AIRFIELD SUPPORT COORD.

POC: WSTF/ROBERT MITCHELL/505 524-5774
COMM CONTACT: WSTF/SCOTT SEILER/505 524-5124

NOTE: 1. PROBABLY END OF MISSION ONLY.

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/22/06
RESPONSE TRACKING: Z2705 Z3422

[PRD] DATABASE RECORD: 233500 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/09/05
INITIAL DATE: 09/23/88
ITEM NUMBER: TX13.3T DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 07:49:21

REQUESTER: JSC DFRC
SUBREQUESTER: JSC/MG KSC/PH-L
TEST CODE: CKT11 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20017S 20026S 20027S

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 233500
ITEM NUMBER: TX13.3T

	20028S				
TRACKING NO.	A5501	COMREV05	DB98	KING2001	L03-6-2
	L05-2-2	L2604	L2678	L412-1	R03-06-5
	R0502-3	R109-89	R2809	R6308	

PRIORITY: REQUIRED
RATIONALE: BACKUP - OIS 232

1. DESCRIPTION: LANDING RECOVERY DIRECTOR OIS-135

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,17,26, 27,28	T		MCC FOR DISTRIBUTION
K2	7	T		JSC, SPAN MGR.
K3	7,26	T		JSC, EXT TO DFRC

COMM CONTACT: JSC/DV/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/09/05
RESPONSE TRACKING: Z03-06-5 Z26212 Z6310

[PRD] DATABASE RECORD: 342972 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/26/88
INITIAL DATE: 08/26/88
ITEM NUMBER: X13.3.1X DATE LAST CHANGED: 03/20/07
SECTION: 2750 TIME LAST CHANGED: 08:21:39

REQUESTER: DFRC
SUBREQUESTER: KSC/PH-L
TEST CODE: CKT11 EAFB STSALL

ASSOCIATED DOC: 20007S 20026S

TRACKING NO.	COMREV05	DB98	KING2001	L2655	R109-89
	R2809				

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 342972
ITEM NUMBER: X13.3.1X

PRIORITY: REQUIRED
RATIONALE: BACKUP - OIS-232

1. DESCRIPTION: LANDING RECOVERY DIRECTOR OIS-135

RESPONSIBLE AGENCY: DFRC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,26	T		B4800 FOR DIST.
K2	7,26	T		SPA OIS-A CHANNEL 1
K3	7,26	T		B4800 RM. 3018 KSC GOM

TECHNICAL CONTACT: DFRC/GEORGE GRIMSHAW/661 276-3425
KSC/PH-L/DEAN SCHAAF/321 861-9311
KSC/USK-426/MIKE KUTA/321 861-3980

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/26/88
RESPONSE TRACKING: Z26201

[PRD] DATABASE RECORD: 202068 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/06/01
INITIAL DATE: 10/31/01
ITEM NUMBER: H13.4H DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 07:50:29

REQUESTER: MSFC
TEST CODE: STSALL

ASSOCIATED DOC: 25407B
TRACKING NO. COMREV05 KING2001 R109-1
PRIORITY: REQUIRED
RATIONALE: STS VOICE LOOPS REQUIRED FOR COGNIZANT ENGINEERS AT MSFC AND AT REMOTE LOCATIONS TO MONITOR THE PROGRESS OF SHUTTLE TESTING AND LAUNCH SUPPORT.

CONTINUED

[PRD] DATABASE RECORD: 202068
ITEM NUMBER: H13.4H

1. DESCRIPTION: LANDING RECOVERY DIRECTOR OIS-135

RESPONSIBLE AGENCY: MSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
H1	25407	M		HOSC FOR DISTRIBUTION

POC: PHILIP CAUTHEN/EO60/256-544-4204
COMM. CONTACT: SCOTT SCHUTZENHOFER/MP71/256-544-8496

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/06/01
RESPONSE TRACKING: Z109-1

[PRD] DATABASE RECORD: 212975 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/16/03
INITIAL DATE: 04/12/91
ITEM NUMBER: KEHT14K DATE LAST CHANGED: 09/20/06
SECTION: 2750 TIME LAST CHANGED: 07:49:33

REQUESTER:	KSC	ER	MSFC	
	JSC			
SUBREQUESTER:	ESA	FR2/3/4	KSC/MK-SIO	MS101
	OMR3/4	OSR3/4		
TEST CODE:	CKT12	S61C04	S61E02	S61E16
	STSALL	STSR28	STSR44	SUPSIM

ASSOCIATED DOC:	20007S	20008S	20009S	20014S	
	20017S	20037S	20044S	25407B	
TRACKING NO.	COMREV05	KING2001	L03-12-2	L03-6-2	L2604
	L2629	L3534	L3624	L3840	L3856
	L3916	L4920	L5329	ML012-90	R03-06-5
	R0312-4	R109-89	R26157	R26185	R2658
	R2725	R4212	R6524	R8304	RSRR136
	SHAW94				

CONTINUED

[PRD] DATABASE RECORD: 212975
ITEM NUMBER: KEHT14K

1. DESCRIPTION: ET/SRB TEST CONDUCTOR (TBC) OIS-136

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
H1	7,8,9,14,17, 37,44,25321	M		CDSC FOR SWITCHING TO MSFC
T2	7,14,17, 37,25321,44	M		CDSC FOR EXTENSION TO JSC
E2.1	7,14,17, 37,25321	T		CDSC FOR EXTENSION TO ER
				OSR3/4
Y3				ALL POS REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257
				OMR3/4
Y4				ALL POS REF SEC 3020 ITEM DHKTY1.1.2K, DBR 024268
				FR2
T5				ALL JSC CONS REF SEC 3020 ITEM T44.1K, DBR 024313
H6				ALL MSFC CONS REF SEC 3020 ITEM H46.1K, DBR 024286
				LCC ESA RM 3R18
T7				ALL JSC CONS REF SEC 3020 ITEM T66.1K, DBR 517193

COMM. CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 212975
ITEM NUMBER: KEHT14K

SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/16/03
RESPONSE TRACKING: Z0310-1 Z2679 Z2908 Z3536 Z3621
Z3861 Z3882 Z3953 Z4217 Z4916
Z5323 Z6510 Z8305

[PRD] DATABASE RECORD: 203081 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/06/01
INITIAL DATE: 10/31/01
ITEM NUMBER: H14.1H DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 07:52:59

REQUESTER: MSFC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20008S 20009S 20014S
20017S 20037S 20044S 25407B
TRACKING NO. COMREV05 KING2001 R109-1
PRIORITY: REQUIRED
RATIONALE: STS VOICE LOOPS REQUIRED FOR COGNIZANT ENGINEER AT MSFC AND AT REMOTE LOCATIONS TO MONITOR THE PROGRESS OF SHUTTLE TESTING AND LAUNCH SUPPORT.

1. DESCRIPTION: ET/SRB TEST CONDUCTOR (TBC) OIS-136

RESPONSIBLE AGENCY: MSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
H1	7,8,9,14, 17,37,25407, 44	M		HOSC FOR DISTRIBUTION

POC: PHILIP CAUTHEN/EO60/256-544-4204
COMM. CONTACT: SCOTT SCHUTZENHOFER/MP71/256-544-8496

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 203081
ITEM NUMBER: H14.1H

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/06/01
RESPONSE TRACKING: Z109-1

[PRD] DATABASE RECORD: 182489 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/15/06
INITIAL DATE: 12/16/03
ITEM NUMBER: T14.2T DATE LAST CHANGED: 09/15/06
SECTION: 2750 TIME LAST CHANGED: 07:43:04

REQUESTER: JSC
TEST CODE: CKT12 STSALL

ASSOCIATED DOC: 20007S 20014S 20017S 20044S 25407B
TRACKING NO. COMREV05 KING2001 L03-12-2 L03-6-2 L04-5-2 L06-9-1B L2604 L2629 L4920 R03-06-5 R0312-4 R0609-6 R109-89 R8304

1. DESCRIPTION: ET/SRB TEST CONDUCTOR (TBC) OIS-136

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17, 25321,44	M		MCC FOR DISTRIBUTION

COMM CONTACT: JSC/DV/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/15/06
RESPONSE TRACKING: Z03-06-5 Z0312-5 Z26140 Z4916 Z8305

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 15861 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/22/06
INITIAL DATE: 07/06/88
ITEM NUMBER: E14.3E DATE LAST CHANGED: 06/20/07
SECTION: 2750 TIME LAST CHANGED: 07:33:22

REQUESTER: ER
TEST CODE: CKT12 STSALL

ASSOCIATED DOC: 20007S 25407B
TRACKING NO. COMREV05 L2629 R6510 SHAW94

1. DESCRIPTION: ET/SRB TEST CONDUCTOR (TBC) OIS-136

RESPONSIBLE AGENCY: ER

REF	TEST CODE	CAP	NOTE	TERMINATION LOCATION
K1	7,25407	T		CCAFS. HANGAR AF RETRIEVAL OPS

TECH CONTACT: ER/MIKE GAWEL/321 853-8118

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/20/07
RESPONSE TRACKING: Z26142

[PRD] DATABASE RECORD: 290698 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/22/06
INITIAL DATE: 03/22/06
ITEM NUMBER: KE15K DATE LAST CHANGED: 05/04/07
SECTION: 2750 TIME LAST CHANGED: 08:07:07

REQUESTER: KSC ER
TEST CODE: A5501 CKT13 S61E02 S61E16
STSALL SUPSIM

ASSOCIATED DOC: 20007S 20008S 20009S 20014S
20017S 20044S 25407B
TRACKING NO. COMREV05 L2604 L2629 L2830 L3210

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 290698
ITEM NUMBER: KE15K

L3916 L6304 MEET86 R26185 R2658

1. DESCRIPTION: ET/SRB OPS OIS-137

RESPONSIBLE AGENCY: KSC

REF	TEST CODE	CAP	NOTE	TERMINATION LOCATION
K1	7,8,9,14, 17,44, 25407B	M		EXT TO ER
				FR2
T3				ALL JSC CONS REF SEC 3030 ITEM T44.1K, DBR 024313
H4				ALL MSFC CONS REF SEC 3030 ITEM H46.1K, DBR 024286

COMM CONTACT: MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/22/06

[PRD] DATABASE RECORD: 198576 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/22/06
INITIAL DATE: 03/22/06
ITEM NUMBER: E15.1E DATE LAST CHANGED: 06/20/07
SECTION: 2750 TIME LAST CHANGED: 07:32:21

REQUESTER: ER
SUBREQUESTER: KSC
TEST CODE: CKT13 S51F04 STSALL

ASSOCIATED DOC: 20007S 25407B
TRACKING NO. COMREV05

CONTINUED

[PRD] DATABASE RECORD: 198576
ITEM NUMBER: E15.1E

1. DESCRIPTION: SRB TEST CONDUCTOR OIS-137

RESPONSIBLE AGENCY: ER

REF	TEST CODE	CAP	NOTE	TERMINATION LOCATION
K1	7,25407	T		CCAFS, Hangar AF Retrieval Ops

TECH CONTACT: ER/MIKE GAWEL/321 853-8118

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: ALEX CARAZO/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/20/07

[PRD] DATABASE RECORD: 320758 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/03/94
INITIAL DATE: 04/12/91
ITEM NUMBER: KE16K DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 08:01:33

REQUESTER: KSC ER
SUBREQUESTER: KSC/IT-D2-C KSC/MK-SIO OMR1/3/4 OSR1/3/4
TEST CODE: CKT14 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S
TRACKING NO. COMREV05 DB98 KING2001 L2604 L3916
L6815 SHAW94
PRIORITY: REQUIRED
RATIONALE: BACKUP - OIS 111 AND BLACK PHONE.

1. DESCRIPTION: OPERATIONAL TELEVISION CONTROLLER OIS-138

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
Y1	7,14,17	T		CDSC FOR DIST
K2	7	T		EXTENSION TO CCAFS X-Y

CONTINUED

[PRD] DATABASE RECORD: 320758
ITEM NUMBER: KE16K

	OSR1/3/4
Y3	ALL POS REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257

	OMR1/3/4
Y4	ALL POS REF SEC 3020 ITEM DHKTY1.1.2K, DBR 024268

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/18/94
RESPONSE TRACKING: Z3953 Z6408

[PRD] DATABASE RECORD: 197133 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/21/98
INITIAL DATE: 06/16/89
ITEM NUMBER: E16.1E DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 08:02:18

REQUESTER: ER
SUBREQUESTER: BIO-3 KSC/TA-C
TEST CODE: CKT14 STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 KING2001 L9503 MK98 R2862
PRIORITY: REQUIRED
RATIONALE: BACKUP - OIS 111 AND BLACK PHONE

1. DESCRIPTION: OPERATIONAL TELEVISION CONTROLLER OIS-138(L-30 MINUTES)

RESPONSIBLE AGENCY: ER

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
- -	- - - -	- -	- -	- - - - - - - - - - - - - -

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 197133
ITEM NUMBER: E16.1E

K1	7	T	CCAFS, ROCC, EEC
K2	7, 17	T	CCAFS, BLDG 1605

TECH CONTACT: ER/MIKE GAWEL/321 853-8118

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/26/98
RESPONSE TRACKING: Z2853 Z9511

[PRD] DATABASE RECORD: 174336 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/25/00
INITIAL DATE: 04/12/91
ITEM NUMBER: K17K DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 08:07:24

REQUESTER: KSC
SUBREQUESTER: FR2 KSC/MK-SIO OMR1/3/4 OSR1/3/4
TEST CODE: CKT15 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S 20037S 20044S
TRACKING NO. COMREV05 KING2001 L2604 L3916 L9201 R109-89

1. DESCRIPTION: G&N OIS-141

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17, 37,44	T		CDSC FOR DIST OSR1/3/4
Y2				ALL POS REF SEC 3030 ITEM HKTY1.1.1K, DBR 024257

CONTINUED

[PRD] DATABASE RECORD: 174336
ITEM NUMBER: K17K

	OMR1/3/4
Y3	ALL POS REF SEC 3030 ITEM DHKTY1.1.2K, DBR 024268

	FR2
T4	ALL JSC CONS REF SEC 3030 ITEM T44.1K, DBR 024313

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/25/00
RESPONSE TRACKING: Z3953 Z9201

[PRD] DATABASE RECORD: 513740 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/13/03
INITIAL DATE: 02/12/91
ITEM NUMBER: K18K DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 08:11:57

REQUESTER: KSC
SUBREQUESTER: FR2 KSC/MK-SIO OMR1/3/4 OSR1/3/4
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20014S 20017S 20037S 20044S
TRACKING NO. COMREV05 KING2001 L03-6-2 L3916 L610-8 R03-06-5 R109-89 R8105

1. DESCRIPTION: MECH & ARMS OIS-142

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION

CONTINUED

[PRD] DATABASE RECORD: 513740
ITEM NUMBER: K18K

T1	7,14,17,37,44	T	CDSC FOR DIST
			OSR1/3/4
			- - - - - - - - - - - - -
Y3			ALL POS REF SEC 3020
			ITEM HKTY1.1.1K, DBR 024257
			OMR1/3/4
			- - - - - - - - - - - - - - -
Y4			ALL POS REF SEC 3020
			ITEM DHKTY1.1.2K, DBR 024268
			FR2
			- - - - - - - - - - - - - - -
T5			ALL JSC CONS REF SEC 3020
			ITEM T44.1K, DBR 024313

TECH CONTACT: KSC/DEBBIE AWTONOMOW/321 861-3972
COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/24/03
RESPONSE TRACKING: Z0310-1 Z3953 Z8205

[PRD] DATABASE RECORD: 556991 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/16/03
INITIAL DATE: 10/03/00
ITEM NUMBER: KT19K DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 07:00:40

REQUESTER:	KSC	JSC		
SUBREQUESTER:	FR2	JSC-VK-1	JSC/MV	KSC/MK-SIO
	KSC/PH-I	OMR1/3/4	OSR1/3/4	
TEST CODE:	CKT15	STSALL		

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 556991
ITEM NUMBER: KT19K

ASSOCIATED DOC: 20007S 20014S 20017S 20037S 20044S
TRACKING NO. COMREV05 KING2001 L03-12-2 L03-6-2 L9201 R03-06-5 R0312-4 R109-89

1. DESCRIPTION: MECH & ARMS B/U OIS-242

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17,37,44	T		CDSC FOR DIST
T2	7,17,44	T		CDSC FOR EXT TO JSC
				OSR1/3/4
Y2				ALL POS REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257
				OMR1/3/4
Y3				ALL POS REF SEC 3020 ITEM DHKTY1.1.2K, DBR 024268
				FR2
T4				ALL JSC CONS REF SEC 3020 ITEM T44.1K, DBR 024313

TECH CONTACT: KSC/DEBBIE AWTONOMOW/321 861-3972
COMM CONTACT: KSC/MONIQUE MCLAMB/321 853-8650

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/16/03

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 556991
ITEM NUMBER: KT19K

RESPONSE TRACKING: Z0310-1

[PRD] DATABASE RECORD: 556995 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/16/03
INITIAL DATE: 12/16/03
ITEM NUMBER: T19.1T DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 08:13:56

REQUESTER: JSC
SUBREQUESTER: JSC/MV
TEST CODE: CKT15 STSALL

ASSOCIATED DOC: 20007S 20014S 20017S 20044S
TRACKING NO. COMREV05 KING2001 L03-12-2 L03-6-2 L9201
R03-06-5 R0312-4 R109-89

1. DESCRIPTION: MECH & ARMS B/U OIS-242

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17,44	T		MCC FOR DISTRIBUTION

COMM CONTACT: JSC/DV/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/16/03
RESPONSE TRACKING: Z03-06-5 Z0312-5 Z9205

[PRD] DATABASE RECORD: 318575 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/25/00
INITIAL DATE: 04/12/91
ITEM NUMBER: K20K DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 08:14:36

REQUESTER: KSC
SUBREQUESTER: FR2 JSC KSC/MK-SIO KSC/PH-I2
OMR1/3/4 OSR1/3/4

CONTINUED

[PRD] DATABASE RECORD: 318575
ITEM NUMBER: K20K

TEST CODE: CKT16 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S 20037S 20044S
TRACKING NO. A5501 COMREV05 KING2001 L2604 L3916 L4918 L9201 R109-89 R3814 RSRR116

1. DESCRIPTION: ECLSS-1 OIS-143

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17, 37,44	T		CDSC FOR DIST
				OSR1/3/4
Y2				ALL POS REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257
				OMR1/3/4
Y3				ALL POS REF SEC 3020 ITEM DHKTY1.1.2K, DBR 024268
				FR2
T4				ALL JSC CONS REF SEC 3020 ITEM T44.1K, DBR 024313

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540
TECH CONTACT: KSC/PH-I2/DEBBIE AWTONOMOW/321 861-3972

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 318575
ITEM NUMBER: K20K

SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/25/00
RESPONSE TRACKING: Z3569 Z3953 Z4913 Z9201

[PRD] DATABASE RECORD: 556980 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/03/00
INITIAL DATE: 10/03/00
ITEM NUMBER: KT21K DATE LAST CHANGED: 09/19/06
SECTION: 2750 TIME LAST CHANGED: 12:57:15

REQUESTER: KSC JSC
SUBREQUESTER: FR2 JSC KSC/MK-SIO KSC/PH-I2
OMR1/3/4 OSR1/3/4
TEST CODE: CKT16 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S 20037S
20044S
TRACKING NO. COMREV05 KING2001 L9201 R109-89

1. DESCRIPTION: ECLSS-2 OIS-243

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17, 37,44	T		CDSC FOR DIST
T2	7,17,44	T		CDSC FOR EXT TO JSC
				OSR1/3/4
Y3				ALL POS REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257
				OMR1/3/4
Y4				ALL POS REF SEC 3020 ITEM DHKTY1.1.2K, DBR 024268

CONTINUED

[PRD] DATABASE RECORD: 556980
ITEM NUMBER: KT21K

	FR2
T5	ALL JSC CONS REF SEC 3020 ITEM T44.1K, DBR 024313

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540
TECH CONTACT: KSC/PH-I2/DEBBIE AWTONOMOW/321 861-3972

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/03/00

[PRD] DATABASE RECORD: 557140 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/06/04
INITIAL DATE: 10/04/00
ITEM NUMBER: T21.1T DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 08:19:10

REQUESTER: JSC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20014S 20017S 20037S 20044S
TRACKING NO. COMREV05 KING2001 L04-6-4 L9205 R0407-1 R109-89

1. DESCRIPTION: ECLSS-2 OIS-243

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17, 37,44	T		MCC FOR DIST

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 557140
ITEM NUMBER: T21.1T

T2	7,14,17,37,44	T	EXT TO B-NS/HOU TOWER II

COMM CONTACT: JSC/DV/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/06/04
RESPONSE TRACKING: Z0407-1 Z9205

[PRD] DATABASE RECORD: 314949 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/25/00
INITIAL DATE: 06/01/89
ITEM NUMBER: K22K DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 08:19:25

REQUESTER: KSC
SUBREQUESTER: FR2 KSC/MK-SIO NASA HQ OMR1/3/4 OSR1/3/4
TEST CODE: CKT17 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S 20037S 20044S
TRACKING NO. COMREV05 KING2001 L2604 L3916 L9201 R109-89 R2827 R8304
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: ORBITER INSTRUMENTATION OIS-145

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17, 37,44	T		CDSC FOR DIST OSR1/3/4

CONTINUED

[PRD] DATABASE RECORD: 314949
ITEM NUMBER: K22K

	- - - - - - - - - - - - -
Y3	ALL POS REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257
	OMR1/3/4
	- - - - - - - - - - - - -
Y4	ALL POS REF SEC 3020 ITEM DHKTY1.1.2K, DBR 024268
	FR2
	- - - - - - - - - - - - -
T5	ALL JSC CONS REF SEC 3020 ITEM T44.1K, DBR 024313
H6	ALL MSFC CONS REF SEC 3020 ITEM H46.1K, DBR 024286

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/25/00
RESPONSE TRACKING: Z2816 Z3953 Z8305 Z9201

[PRD] DATABASE RECORD: 556981 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/25/00
INITIAL DATE: 09/25/00
ITEM NUMBER: KT23K DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 07:02:40

REQUESTER: KSC JSC
SUBREQUESTER: FR2 KSC/MK-SIO KSC/PH-I OMR1/3/4
OSR1/3/4
TEST CODE: CKT17 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S 20037S
20044S
TRACKING NO. COMREV05 KING2001 L9201 R109-89
PRIORITY: REQUIRED

CONTINUED

[PRD] DATABASE RECORD: 556981
ITEM NUMBER: KT23K

RATIONALE: MISSION SUPPORT

1. DESCRIPTION: ORBITER INSTRUMENTATION B/U OIS-252

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17, 37,44	T		CDSC FOR DIST
T2	7,14,17,44	T		CDSC FOR EXTENSION TO JSC
				OSR1/3/4
Y4				ALL POS REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257
				OMR1/3/4
Y5				ALL POS REF SEC 3020 ITEM DHKTY1.1.2K, DBR 024268
				FR2
T6				ALL JSC CONS REF SEC 3020 ITEM T44.1K, DBR 024313
H7				ALL MSFC CONS REF SEC 3020 ITEM H46.1K, DBR 024286

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540
TECH CONTACT: KSC/PH-I2/DEBBIE AWTONOMOW/321 861-3972

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/25/00

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 556981
ITEM NUMBER: KT23K

RESPONSE TRACKING: Z9201

[PRD] DATABASE RECORD: 556987 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/16/03
INITIAL DATE: 09/25/00
ITEM NUMBER: T23.1T DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 08:21:16

REQUESTER: JSC
SUBREQUESTER: KSC/PH-I2
TEST CODE: CKT17 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S 20044S
TRACKING NO. COMREV05 KING2001 L03-12-2 L9201 R0312-4

1. DESCRIPTION: ORBITER INSTRUMENTATION B/U OIS-252

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17,44	T		MCC FOR DISTRIBUTION

COMM CONTACT: JSC/DV/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/16/03
RESPONSE TRACKING: Z0312-5 Z9204

[PRD] DATABASE RECORD: 355775 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/09/05
INITIAL DATE: 04/12/91
ITEM NUMBER: KHT24K DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 08:22:07

REQUESTER:	KSC	MSFC		JSC
SUBREQUESTER:	FR2	KSC/MK-SIO	OMR1/3/4	OSR1/3/4
TEST CODE:	CKT18	S61C04	S61E16	STSALL
	STSR28	STSR38	SUPSIM	

CONTINUED

[PRD] DATABASE RECORD: 355775
ITEM NUMBER: KHT24K

ASSOCIATED DOC: 20007S 20009S 20014S 20017S
20037S 20044S

TRACKING NO. COMREV05 KING2001 L03-6-2 L05-2-2 L2604
L2613 L3840 L3856 L3916 L9201
R03-06-5 R0502-2 R109-89 R26157 R26185
R2658 R9904

1. DESCRIPTION: SSME-1/SSMEC-1 OIS-146

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17, 37,44	T		CDSC FOR DIST
T2	7,14,17,37,44	T		CDSC FOR EXTN. TO JSC
H3	7,9,14,17, 37,44	T		CDSC FOR SWITCHING TO MSFC
H3.1	7	M		CDSC FOR EXT TO SSC
				OSR1/3/4
Y4				ALL POS REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257
				OMR1/3/4
Y5				ALL POS REF SEC 3020 ITEM DHKTY1.1.2K, DBR 024268
				FR2
T6				ALL JSC CONS REF SEC 3020 ITEM T44.1K, DBR 024313
H7				ALL MSFC CONS REF SEC 3020 ITEM H46.1K, DBR 024286

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 355775
ITEM NUMBER: KHT24K

TECH CONTACT: KSC/DEBBIE AWTONOMOW/321 861-3972
COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/09/05
RESPONSE TRACKING: Z0310-1 Z2679 Z2687 Z3861 Z3882
Z3953 Z9201 Z9912

[PRD] DATABASE RECORD: 240002 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/09/05
INITIAL DATE: 10/18/90
ITEM NUMBER: T24.1T DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 08:22:50

REQUESTER: JSC
TEST CODE: CKT18 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S 20037S
20044S
TRACKING NO. COMREV05 KING2001 L03-12-2 L05-2-2 L2604
L3840 L9201 R0312-4 R0502-3 R109-89
R114-3

1. DESCRIPTION: SSME-1/SSMEC-1 OIS-146

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17, 37,44	T		MCC FOR DISTRIBUTION

COMM CONTACT: JSC/DV/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 240002
ITEM NUMBER: T24.1T

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/09/05
RESPONSE TRACKING: Z0312-5 Z114-3 Z3861

[PRD] DATABASE RECORD: 227618 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/14/01
INITIAL DATE: 10/31/01
ITEM NUMBER: H24.2H DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 08:23:08

REQUESTER: MSFC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20008S 20009S 20017S
20044S
TRACKING NO. COMREV05 KING2001 R109-1 R109-4
PRIORITY: REQUIRED
RATIONALE: STS VOICE LOOPS REQUIRED FOR COGNIZANT ENGINEER AT MSFC AND AT REMOTE LOCATIONS TO MONITOR THE PROGRESS OF SHUTTLE TESTING AND LAUNCH SUPPORT.

1. DESCRIPTION: SSME-1/SSMEC-1 OIS-146

RESPONSIBLE AGENCY: MSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
H1	7,8,9,17,44	T		HOSC FOR DISTRIBUTION

POC: PHILIP CAUTHEN/EO60/256-544-4204
COMM. CONTACT: SCOTT SCHUTZENHOFER/MP71/256-544-8496

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/14/01
RESPONSE TRACKING: Z109-1 Z109-2

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 272996 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/25/00
INITIAL DATE: 04/12/91
ITEM NUMBER: KT25K DATE LAST CHANGED: 09/19/06
SECTION: 2750 TIME LAST CHANGED: 12:52:58

REQUESTER: KSC JSC
SUBREQUESTER: FR2 KSC/MK-SIO OMR1/3/4 OSR1/3/4
TEST CODE: CKT19 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S 20037S
20044S
TRACKING NO. A5501 COMREV05 KING2001 L2604 L3916
L9201 R109-89 R4209

1. DESCRIPTION: HYPERGOLIC FUEL-1 OIS-147

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17, 37,44	T		CDSC FOR DIST
T2	7,14,17,44	T		CDSC FOR EXTENSION TO JSC
				OSR1/3/4
Y3				ALL POS REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257
				OMR1/3/4
Y4				ALL POS REF SEC 3020 ITEM DHKTY1.1.2K, DBR 024268
				FR2
T5				ALL JSC CONS REF SEC 3020 ITEM T44.1K, DBR 024313

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540
TECH CONTACT: KSC/DEBBIE AWTONOMOW/321 861-3972

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 272996
ITEM NUMBER: KT25K

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/25/00
RESPONSE TRACKING: Z3953 Z4214 Z9201

[PRD] DATABASE RECORD: 243171 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/01/04
INITIAL DATE: 05/17/88
ITEM NUMBER: T25.1T DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 08:24:09

REQUESTER: JSC
TEST CODE: CKT19 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S 20044S
TRACKING NO. COMREV05 KING2001 L03-12-2 L04-5-2 L2604
L9201 R0312-4 R0405-3 R109-89

1. DESCRIPTION: HYPERGOLIC FUEL-1 OIS-147

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17,44	T		MCC FOR DISTRIBUTION

COMM CONTACT: JSC/DV/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/01/04
RESPONSE TRACKING: Z0312-5 Z0405-2 Z9204

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 14525 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/21/05
INITIAL DATE: 04/12/91
ITEM NUMBER: KGT26K DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 08:25:12

REQUESTER: KSC GSFC JSC
SUBREQUESTER: ESA FR2 KSC/MK-SIO MS101
OMR1/3/4 OSR1/3/4
TEST CODE: CKT20 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S 20026S
20037S 20044S
TRACKING NO. COMREV05 KING2001 L2604 L3911 L3916
L9201 R0501-1A R109-89 R26185 R2658
R4212

1. DESCRIPTION: ELECTRICAL POWER DISTRIBUTION & CONTROL OIS-151

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17,37,44	T		CDSC FOR DIST
T2	7,17,26,44	T		CDSC FOR EXT TO JSC
K3	7, 27	T		CDSC FOR EXT TO GSFC
				OSR1/3/4

Y4				ALL POS REF SEC 3020
				ITEM HKTY1.1.1K, DBR 024257
				OMR1/3/4

Y5				ALL POS REF SEC 3020
				ITEM DHKTY1.1.2K, DBR 024268
				FR2

T6				ALL JSC CONS REF SEC 3020
				ITEM T44.1K, DBR 024313
H7				ALL MSFC CONS REF SEC 3020

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

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[PRD] DATABASE RECORD: 14525
ITEM NUMBER: KGT26K

ITEM H46.1K, DBR 024286

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540
TECH CONTACT: KSC/DEBBIE AWTONOMOW/321 861-3972

NOTE: EXTEND TO INMARSAT CIRCUITS TAL LANDING FIELD, TAL AIRCRAFT ORBITER OR TAL WEATHER OBSERVER POST-ELS/CLS/TAL LANDING FOR RECOVERY OPERATIONS AT THE REQUEST OF THE GOM.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/21/05
RESPONSE TRACKING: Z2679 Z3949 Z3953 Z4217 Z9201

[PRD] DATABASE RECORD: 198473 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/16/03
INITIAL DATE: 02/08/91
ITEM NUMBER: TX26.1T DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 08:26:07

REQUESTER: JSC DFRC
SUBREQUESTER: KSC/PH-I KSC/PH-L
TEST CODE: CKT20 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20017S 20026S 20044S
TRACKING NO. COMREV05 DB98 KING2001 L03-12-2 L2604
L3911 R0312-4 R109-89 R2809
PRIORITY: REQUIRED
RATIONALE: BACKUP - ALTERNATE OIS CHANNELS AND BLACK PHONE.

1. DESCRIPTION: ELECTRICAL POWER DISTRIBUTION AND CONTROL OIS-151

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,17,26,44	T		MCC FOR DISTRIBUTION

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 198473
ITEM NUMBER: TX26.1T

K2	7,26	T	MCC FOR EXTENSION TO DFRC

COMM CONTACT: JSC/DV/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/16/03
RESPONSE TRACKING: Z0312-5 Z3949

[PRD] DATABASE RECORD: 274989 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/01/04
INITIAL DATE: 08/26/88
ITEM NUMBER: K26.1.1X DATE LAST CHANGED: 03/20/07
SECTION: 2750 TIME LAST CHANGED: 08:22:46

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L
TEST CODE: CKT20 EAFB STSALL

ASSOCIATED DOC: 20007S 20026S
TRACKING NO. COMREV05 DB98 KING2001 L04-5-2 L2604
L3911 R0405-3 R109-89 R2809
PRIORITY: REQUIRED
RATIONALE: BACKUP - ALTERNATE OIS CHANNELS AND BLACK PHONE.

1. DESCRIPTION: ELECTRICAL POWER DISTRIBUTION AND CONTROL OIS-151

RESPONSIBLE AGENCY: DFRC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,26	T		SPA OIS-07

PRIME: KSC/PH-L/DEAN SCHAAF/321 861-9311
TECHNICAL CONTACT: DFRC/GEORGE GRIMSHAW/661 276-3425
KSC/USK-426/MIKE KUTA/321 861-3980

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 274989
ITEM NUMBER: K26.1.1X

SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/01/04
RESPONSE TRACKING: Z26201

[PRD] DATABASE RECORD: 579878 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/15/05
INITIAL DATE: 02/21/05
ITEM NUMBER: G26.2G DATE LAST CHANGED: 05/31/07
SECTION: 2750 TIME LAST CHANGED: 10:15:07

REQUESTER: GSFC
SUBREQUESTER: JSC JSC/MG KSC KSC/PH-L
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S 25044S
TRACKING NO. COMREV05 R0501-1 R0501-1A R0504-8

1. DESCRIPTION: ELECTRICAL POWER DISTRIBUTION & CONTROL (EPDC) (OIS-151)

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1K	27	T	1	EXTEND TO WSSH/WSC

PRIME: KSC/PH-L/LOU GARCIA/321 861-6196

GSFC COMM CONTACT: GSFC/AL DUANY/301 286-2721

NOTE 1: EXTENDED FOR A WSSH LANDING. THIS IS A SHARED CIRCUIT WITH HSFS COORD. EPDC WILL ACTIVATE AT HANDOVER AND TERMINATES AT SCA LIFTOFF.

NOTE 2: EXTEND TO INMARSAT CIRCUITS TAL LANDING FIELD, TAL AIRCRAFT ORBITER OR TAL WEATHER LANDING FOR RECOVERY OPERATIONS AT THE REQUEST OF THE GOM.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 579878
ITEM NUMBER: G26.2G

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: WSC/WSGT WSMR WSTF
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/15/05
RESPONSE TRACKING: Z0504-5 Z0505-3

[PRD] DATABASE RECORD: 579879 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/15/05
INITIAL DATE: 02/21/05
ITEM NUMBER: GK26.3Z DATE LAST CHANGED: 05/31/07
SECTION: 2750 TIME LAST CHANGED: 10:15:59

REQUESTER: GSFC KSC
SUBREQUESTER: KSC KSC/PH-L
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S 25044S
TRACKING NO. COMREV05 R0501-1 R0501-1A R0504-8

1. DESCRIPTION: ELECTRICAL POWER DISTRIBUTION & CONTROL (EPDC)
(OIS-151)

RESPONSIBLE AGENCY: WSTF

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1K	27, 5044	T	1	EXTEND TO WSSH OIS FOR DIST.

TECHNICAL CONTACT: WSTF/FURMAN SMITH/505 524-5394
KSC/LOU GARCIA/321 861-6196

COMM CONTACT: WSTF/ZIGGY ZAPEN/505 524-5556

NOTE 1: EXTENDED FOR A WSSH LANDING. THIS IS A SHARED CIRCUIT WITH

CONTINUED

[PRD] DATABASE RECORD: 579879
ITEM NUMBER: GK26.3Z

HSFS COORD. EPDC WILL ACTIVATE AT HANDOVER AND TERMINATE AT SCA LIFTOFF.

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/15/05
RESPONSE TRACKING: Z0504-5

[PRD] DATABASE RECORD: 243126 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/25/00
INITIAL DATE: 04/12/91
ITEM NUMBER: KHT27K DATE LAST CHANGED: 09/19/06
SECTION: 2750 TIME LAST CHANGED: 12:54:41

REQUESTER:	KSC	MSFC	JSC	
SUBREQUESTER:	FR2	KSC/MK-SIO	OMR3/4	OSR3/4
TEST CODE:	CKT21	S61C04	S61E16	STSALL
	SUPSIM			

ASSOCIATED DOC:	20007S	20014S	20017S	20026S	
	20037S	20044S			
TRACKING NO.	A5501	COMREV05	DB98	KING2001	L2604
	L2740	L3911	L3916	L4524	L9201
	M3001	R109-89	R26185	R2658	R3003
	R8304				

PRIORITY: REQUIRED
RATIONALE: BACKUP - ALTERNATE OIS CHANNELS AND BLACK PHONE.

1. DESCRIPTION: DATA PROCESSING SYSTEM-1 OIS-152

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17, 37,44	T		CDSC FOR DIST
KT2	7,14,17,26, 44	T		CDSC FOR EXT. TO JSC
H3	7,14,17,44	T		CDSC FOR SWITCHING TO MSFC

CONTINUED

[PRD] DATABASE RECORD: 243126
ITEM NUMBER: KHT27K

OSR3/4
- - - - - - - - - - - - - -

Y4 ALL POS REF SEC 3020
ITEM HKTY1.1.1K, DBR 024257

OMR3/4
- - - - - - - - - - - - - -

Y5 ALL POS REF SEC 3020
ITEM DHKTY1.1.2K, DBR 024268

FR2
- - - - - - - - - - - - - -

T6 ALL JSC CONS REF SEC 3020
ITEM T44.1K, DBR 024313

H7 ALL MSFC CONS REF SEC 3020
ITEM H46.1K, DBR 024286

TECHNICAL CONTACT: KSC/PH-I2/DEBBIE AWTONOMOW/321 861-3972

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/25/00
RESPONSE TRACKING: Z2679 Z2922 Z3004 Z3949 Z3953
Z4538 Z8305 Z9201

[PRD] DATABASE RECORD: 229900 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/16/03
INITIAL DATE: 05/17/88
ITEM NUMBER: T27.1T DATE LAST CHANGED: 05/03/06
SECTION: 2750 TIME LAST CHANGED: 07:40:58

REQUESTER: JSC
TEST CODE: CKT21 STSALL SUPSIM

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 229900
ITEM NUMBER: T27.1T

ASSOCIATED DOC: 20007S 20014S 20017S 20026S
20044S
TRACKING NO. L03-12-2 L2604 R0312-4 R8304

1. DESCRIPTION: DATA PROCESSING SYSTEM-1 OIS-152

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17,26,44	T		MCC FOR DISTRIBUTION
T2	7,26	T	1	EXT TO DFRC

COMM CONTACT: JSC/DV/KEN JONES/281 483-7671

NOTE: SEE LLS2700, ITEM K51GTX, DBR 208463, FOR TIMES
CIRCUIT IS ESTABLISHED AND RELEASED.

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/16/03
RESPONSE TRACKING: Z0312-5 Z8305

[PRD] DATABASE RECORD: 16893 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/01/04
INITIAL DATE: 10/28/88
ITEM NUMBER: X27.1.1X DATE LAST CHANGED: 03/20/07
SECTION: 2750 TIME LAST CHANGED: 08:23:43

REQUESTER: DFRC
SUBREQUESTER: JSC KSC/PH-L
TEST CODE: CKT21 EAFB STSALL

ASSOCIATED DOC: 20007S 20026S
TRACKING NO. COMREV05 DB98 KING2001 L04-5-2 L2740
R0405-3 R109-89

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 16893
ITEM NUMBER: X27.1.1X

PRIORITY: REQUIRED
RATIONALE: BACK-UP - ALTERNATE OIS CHANNELS AND BLACK PHONE.

1. DESCRIPTION: DATA PROCESSING SYSTEM 1 OIS-152

RESPONSIBLE AGENCY: DFRC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,26	T	1	SPA OIS-02

POC: DFRC/GEORGE GRIMSHAW/661 276-3425

TECHNICAL CONTACT: KSC/PH-L/DEAN SCHAAF/321 861-9311
KSC/USK-426/MIKE KUTA/321 861-3980

NOTE 1: SEE LLS2700, ITEM K51GTX, DBR 208463, FOR TIMES
CIRCUIT IS ESTABLISHED AND RELEASED.

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/01/04
RESPONSE TRACKING: Z2936

[PRD] DATABASE RECORD: 231081 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/14/01
INITIAL DATE: 10/31/01
ITEM NUMBER: H27.2H DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 08:33:22

REQUESTER: MSFC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20014S 20017S
TRACKING NO. COMREV05 KING2001 R109-1 R109-4
PRIORITY: REQUIRED

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 231081
ITEM NUMBER: H27.2H

RATIONALE: STS VOICE LOOPS REQUIRED FOR COGNIZANT ENGINEERS AT MSFC AND AT REMOTE LOCATIONS TO MONITOR THE PROGRESS OF SHUTTLE TESTING AND LAUNCH SUPPORT.

1. DESCRIPTION: DATA PROCESSING SYSTEM-1 OIS-152

RESPONSIBLE AGENCY: MSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
H1	7,14,17	T		HOSC FOR DISTRIBUTION

POC: PHILIP CAUTHEN/EO60/256-544-4204
COMM. CONTACT: SCOTT SCHUTZENHOFER/MP71/256-544-8496

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/14/01
RESPONSE TRACKING: Z109-1 Z109-2

[PRD] DATABASE RECORD: 281881 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/21/05
INITIAL DATE: 04/12/91
ITEM NUMBER: KGT28K DATE LAST CHANGED: 01/16/07
SECTION: 2750 TIME LAST CHANGED: 10:17:55

REQUESTER: KSC GSFC JSC
SUBREQUESTER: FR2 KSC/MK-SIO OMR3/4 OSR3/4
TEST CODE: CKT22 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S 20037S 20044S
TRACKING NO. COMREV05 KING2001 L2604 L3844 L3916 L9201 R0501-1A R109-89

1. DESCRIPTION: FUEL CELLS-1 OIS-153 (PRSD)

RESPONSIBLE AGENCY: KSC

CONTINUED

[PRD] DATABASE RECORD: 281881
ITEM NUMBER: KGT28K

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17, 37,44	T		CDSC FOR DIST
T2	7,17,37,44	T		CDSC FOR EXTENSION TO JSC
K2.1	7, 27	T		CDSC FOR EXTENSION TO GSFC
				OSR1/3/4
Y3				ALL POS REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257
				OMR1/3/4
Y4				ALL POS REF SEC 3020 ITEM DHKTY1.1.2K, DBR 024268
				FR2
T5				ALL JSC CONS REF SEC 3020 ITEM T44.1K, DBR 024313

TECH CONTACT: KSC/DEBBIE AWTONOMOW/321 861-3972
COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/21/05
RESPONSE TRACKING: Z3869 Z3953 Z9201

[PRD] DATABASE RECORD: 229027 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/16/03
INITIAL DATE: 10/22/90
ITEM NUMBER: T28.1T DATE LAST CHANGED: 01/16/07
SECTION: 2750 TIME LAST CHANGED: 10:18:10

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 229027
ITEM NUMBER: T28.1T

REQUESTER: JSC
TEST CODE: CKT22 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20017S 20037S 20044S
TRACKING NO. COMREV05 KING2001 L03-12-2 L03-6-2 L2604
L3844 R03-06-5 R0312-4 R109-89

1. DESCRIPTION: FUEL CELLS-1 OIS-153 (PRSD)

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,17,37,44	T		MCC FOR DISTRIBUTION

COMM CONTACT: JSC/DV/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/16/03
RESPONSE TRACKING: Z03-06-5 Z0312-5 Z3869

[PRD] DATABASE RECORD: 579778 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/15/05
INITIAL DATE: 02/21/05
ITEM NUMBER: G28.2G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:28

REQUESTER: GSFC
SUBREQUESTER: JSC JSC/MG KSC KSC/PH-L
KSC/USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S 25044S
TRACKING NO. COMREV05 GSFCREV06 R0501-1 R0501-1A R0504-8

1. DESCRIPTION: FUEL CELLS-1 (OIS-153) (PRSD)

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[PRD] DATABASE RECORD: 579778
ITEM NUMBER: G28.2G

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1K	27, 5044	T	1	EXTEND TO WSC/WSSH

NOTE 1: THIS IS A SHARED CIRCUIT WITH LANDING FIELD-2.
CIRCUIT ACTIVATES AT HANDOVER AND TERMINATES AT
SCA LIFTOFF.

PRIME: KSC/PH-L/LOU GARCIA/321 861-6196

GSFC COMM CONTACT: AL DUANY/301 286-2721

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: WSC/WSGT WSMR WSTF
RESPONDER: TONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/15/05
RESPONSE TRACKING: Z0501-1 Z0504-5

[PRD] DATABASE RECORD: 579779 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/15/05
INITIAL DATE: 02/21/05
ITEM NUMBER: GK28.3Z DATE LAST CHANGED: 04/04/07
SECTION: 2750 TIME LAST CHANGED: 07:14:07

REQUESTER: GSFC KSC
SUBREQUESTER: JSC/MG KSC/PH-L KSC/USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S 25044S
TRACKING NO. COMREV05 R0501-1 R0501-1A R0504-8

1. DESCRIPTION: FUEL CELLS-1 (OIS-153) (PRSD)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 579779
ITEM NUMBER: GK28.3Z

RESPONSIBLE AGENCY: WSTF

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1K	27	T	1	EXTEND TO WSSH OIS FOR DIST.

POC: WSTF/ROBERT MITCHELL/505 524-5774
TECH CONTACT: KSC/PH-L/LOU GARCIA/321 861-6196

WSTF COMM: ZIGGY ZAPEN/505 524-5556

NOTE 1: THIS IS A SHARED CIRCUIT WITH LANDING FIELD 2.
PRSD WILL ACTIVATE AT HANDOVER AND TERMINATE
AT SCA LIFTOFF.

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/15/05
RESPONSE TRACKING: Z0504-5

[PRD] DATABASE RECORD: 283222 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/28/02
INITIAL DATE: 05/17/88
ITEM NUMBER: KGT29K DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 08:50:36

REQUESTER: KSC GSFC JSC
SUBREQUESTER: FR2 I-MIL KSC/MK-SIO KSC/PH-F
OMR1/3/4 OSR1/3/4
TEST CODE: CKT23 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S 20028S
20037S 20044S
TRACKING NO. COMREV05 DB98 KING2001 L2604 L3916
L4829 L9201 R109-89 R8304
PRIORITY: REQUIRED
RATIONALE: BACKUP - ALTERNATE OIS CHANNELS AND BLACK PHONE.

1. DESCRIPTION: ORBITER COMM-1 OIS-155

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 283222
ITEM NUMBER: KGT29K

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17, 28,37,44	T		CDSC FOR DIST
K2	7,14	T		LCC, ORBITER COMM CONSOLE
K3	7,14,28	T		EXTENSION TO MIL
T4	7,14,17, 44	T		CDSC FOR EXTENSION TO JSC
G5	7,14,17,44	T		CDSC FOR EXT TO GSFC
				OSR1/3/4
Y6		T		ALL POS REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257
				OMR1/3/4
Y7		T		ALL POS REF SEC 3020 ITEM DHKTY1.1.2K, DBR 024268
				FR2
T8				ALL JSC CONS REF SEC 3020 ITEM T44.1K, DBR 024313

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540
TECH CONTACT: KSC/DEBBIE AWTONOMOW/321 861-3972

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/28/02
RESPONSE TRACKING: Z3953 Z4834 Z8305 Z9201

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 212714 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/11/02
INITIAL DATE: 12/06/89
ITEM NUMBER: GK29.1G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:18

REQUESTER: GSFC KSC
SUBREQUESTER: KSC/PH-F
TEST CODE: CKT23 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S 20028S
TRACKING NO. COMREV05 DB98 KING2001 L2608 L3210
L4829 L6306 R113-4 R8304
PRIORITY: REQUIRED
RATIONALE: BACKUP - ALTERNATE OIS CHANNELS AND BLACK PHONE.

1. DESCRIPTION: ORBITER COMM-1 OIS-155

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,14,28	T		CD&SC FOR EXT TO MILA
G2	7,17	T		NIC BLDG 13, NOM CONS

COMM CONTACT: GSFC/AL DUANY/301 286-2721

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/17/02
RESPONSE TRACKING: Z107-7 Z2675 Z3210 Z4834 Z7101

[PRD] DATABASE RECORD: 227864 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/11/02
INITIAL DATE: 12/06/89
ITEM NUMBER: T29.2T DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 08:53:43

REQUESTER: JSC
TEST CODE: CKT23 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S 20044S

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 227864
ITEM NUMBER: T29.2T

TRACKING NO. COMREV05 KING2001 L2604 L3210 R113-4
R8304
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: ORBITER COMM-1 OIS-155

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17,44	T		MCC FOR DISTRIBUTION

COMM CONTACT: JSC/DV/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/11/02
RESPONSE TRACKING: Z3210 Z8305

[PRD] DATABASE RECORD: 227110 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/09/05
INITIAL DATE: 04/12/91
ITEM NUMBER: KHT30K DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 08:54:55

REQUESTER: KSC MSFC JSC
SUBREQUESTER: FR2 KSC/MK-SIO MS101 OMR1/3/4
OSR1/3/4
TEST CODE: CKT24 ESA S61C04 S61E16
STSALL STSR28 SUPSIM

ASSOCIATED DOC: 20007S 20008S 20014S 20017S
20037S 20044S
TRACKING NO. COMREV05 KING2001 L03-8-1 L05-2-2 L2604
L3534 L3840 L3856 L3916 L5329
ML012-90 R0502-3 R109-89 R26157 R26185
R2658 R2725 R2827 R2908 R4212
RSRR136 RTF114-5

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 227110
ITEM NUMBER: KHT30K

1. DESCRIPTION: LIQUID OXYGEN OIS-156

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17,37, 44	M		CDSC FOR EXTENSION TO JSC
H2	7,8,14,17, 37,44	M		CDSC FOR SWITCHING TO MSFC
				OSR1/3/4
Y3				ALL POS REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257
				OMR1/3/4
Y4				ALL POS REF SEC 3020 ITEM DHKTY1.1.2K, DBR 024268
				FR2
T5				ALL JSC CONS REF SEC 3020 ITEM T44.1K, DBR 024313
H6				ALL MSFC CONS REF SEC 3020 ITEM H46.1K, DBR 024286

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540
TECH CONTACT: KSC/DEBBIE AWTONOMOW/321 861-3972

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/09/05
RESPONSE TRACKING: Z0310-1 Z2679 Z2816 Z2908 Z3536

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 227110
ITEM NUMBER: KHT30K

Z3861 Z3882 Z3953 Z4217 Z5323

[PRD] DATABASE RECORD: 180681 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/09/05
INITIAL DATE: 10/18/90
ITEM NUMBER: T30.1T DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 08:55:18

REQUESTER: JSC
TEST CODE: CKT24 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S 20037S
20044S
TRACKING NO. COMREV05 KING2001 L03-8-1 L05-2-2 L2604
L3840 R0502-3 R107-3 R109-89 RTF114-5

1. DESCRIPTION: LIQUID OXYGEN OIS-156

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17,37,44	M		MCC FOR DISTRIBUTION

COMM CONTACT: JSC/DV/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7670

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/09/05
RESPONSE TRACKING: Z3861

[PRD] DATABASE RECORD: 211675 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/06/01
INITIAL DATE: 10/31/01
ITEM NUMBER: H30.2H DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 08:55:38

REQUESTER: MSFC
TEST CODE: STSALL

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 211675
ITEM NUMBER: H30.2H

ASSOCIATED DOC: 20007S 20008S 20014S 20017S
20037S 20044S
TRACKING NO. COMREV05 KING2001 R109-1
PRIORITY: REQUIRED
RATIONALE: STS VOICE LOOPS REQUIRED FOR COGNIZANT ENGINEERS AT MSFC AND AT REMOTE LOCATIONS TO MONITOR THE PROGRESS OF SHUTTLE TESTING AND LAUNCH SUPPORT.

1. DESCRIPTION: LIQUID OXYGEN OIS-156

RESPONSIBLE AGENCY: MSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
H1	7,8,14,17, 37,44	M		HOSC FOR DISTRIBUTION

POC: PHILIP CAUTHEN/EO60/256-544-4204
COMM. CONTACT: SCOTT SCHUTZENHOFER/MP71/256-544-8496

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544 -5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/06/01
RESPONSE TRACKING: Z109-1

[PRD] DATABASE RECORD: 277057 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/02/04
INITIAL DATE: 04/12/91
ITEM NUMBER: K31K DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 08:55:53

REQUESTER: KSC
SUBREQUESTER: FR2 KSC/MK-SIO NASA HQ OMR1/3/4
OSR1/3/4
TEST CODE: CKT25 STSALL

ASSOCIATED DOC: 20007S 20014S 20017S 20037S
20044S
TRACKING NO. COMREV05 KING2001 L03-8-1 L04-10-2 L04-5-3

CONTINUED

[PRD] DATABASE RECORD: 277057
ITEM NUMBER: K31K

L3806 L3916 L9201 R0406-1 R0411-1
R109-89 R2862 R4209 RTF114-5
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: HYPERGOLIC OXIDIZER-1 OIS-157

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17, 37,44	T		CDSC FOR DIST
				OSR1/3/4
Y2				ALL POS REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257
				OMR1/3/4
Y3				ALL POS REF SEC 3020 ITEM DHKTY1.1.2K, DBR 024268
				FR2
T4				ALL JSC CONS REF SEC 3020 ITEM T44.1K, DBR 024313

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540
TECH CONTACT: KSC/DEBBIE AWTONOMOW/321 861-3972

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/02/04

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 277057
ITEM NUMBER: K31K

RESPONSE TRACKING: Z0310-1 Z0408-1 Z0411-1 Z2853 Z3819
Z3953 Z4214 Z9201

[PRD] DATABASE RECORD: 298618 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/25/00
INITIAL DATE: 04/12/91
ITEM NUMBER: KEHT32K DATE LAST CHANGED: 05/03/06
SECTION: 2750 TIME LAST CHANGED: 07:44:03

REQUESTER: KSC ER MSFC
JSC
SUBREQUESTER: ESA FR2 I-MIL KSC/MK-SIO
KSC/PH-I OMR1/3/4 OSR1/3/4
TEST CODE: CKT26 KSC S61C04 S61E16
STSALL STSR28 SUPSIM

ASSOCIATED DOC: 20007S 20008S 20009S 20014S
20017S 20026S 20027S 20037S
20044S
TRACKING NO. A5501 COMREV05 DB98 KING2001 L04-5-2
L203-3A L2604 L3534 L3624 L3840
L3856 L3916 L4524 L5329 L6008
L9201 ML012-90 R0405-3 R109-89 R26157
R26185 R26263 R2658 R2809 R3114
R4212 R8304 RSRR136
PRIORITY: REQUIRED
RATIONALE: BACKUP - OIS 262 AND BLACK PHONE.

1. DESCRIPTION: PROJECT ENGINEER-1 OIS-161

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17, 26,27,37,44	T		CDSC FOR EXTENSION TO JSC
H2	7,8,9,14, 17,37,44	T		CDSC FOR EXTENSION TO MSFC
K2.1	7,17,37,44	T		CDSC FOR EXTENSION TO MIL
K2.2	7,17,37,44	T		CDSC FOR EXTENSION TO ER

CONTINUED

[PRD] DATABASE RECORD: 298618
ITEM NUMBER: KEHT32K

		OSR1/3/4
		- - - - - - - - - - - - - -
Y3	M	ALL POS 1-19 REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257
		OMR1/3/4
		- - - - - - - - - - - - - -
Y4	M	ALL POS REF SEC 3020 ITEM DHKTY1.1.2K, DBR 024268
		FR2
		- - - - - - - - - - - - - -
T5		ALL JSC CONS REF SEC 3020 ITEM T44.1K, DBR 024313
H6		ALL MSFC CONS REF SEC 3020 ITEM H46.1K, DBR 024286
		LCC ESA RM. 3R18
		- - - - - - - - - - - - - -
T7		ALL JSC CONS REF SEC 3020 ITEM T66.1K, DBR 517193

POC: KSC/PH-I/DEBBIE AWTONOMOW/321 861-3972
KSC/PH-A/C. ABNER/321 861-3800

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

NOTE: EXTEND TO INMARSAT CIRCUITS TAL LANDING FIELD, TAL AIRCRAFT ORBITER OR TAL WEATHER OBSERVER POST-ELS/CLS/TAL LANDING FOR RECOVERY OPERATIONS AT THE REQUEST OF THE GOM.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/25/00

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 298618
ITEM NUMBER: KEHT32K

RESPONSE TRACKING:	Z26191	Z2679	Z3110	Z3536	Z3621
	Z3861	Z3882	Z3953	Z4217	Z4538
	Z5323	Z6021	Z8305	Z9201	

[PRD] DATABASE RECORD: 240255 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/12/05
INITIAL DATE: 10/18/90
ITEM NUMBER: TX32.1T DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 07:08:55

REQUESTER:	JSC	DFRC	
SUBREQUESTER:	KSC/MK-SIO	KSC/PH-I	KSC/PH-L
TEST CODE:	CKT26	STSALL	SUPSIM

ASSOCIATED DOC:	20007S	20014S	20017S	20026S	
	20027S	20037S	20044S		
TRACKING NO.	A106-1	COMREV05	DB98	KING2001	L03-8-1
	L04-2-1	L04-5-2	L2604	L3840	L412-1
	L4906	L6306	R0402-1	R0405-3	R0505-7
	R109-89	R2809	R6308	R8305	RTF114-5

PRIORITY: REQUIRED
RATIONALE: BACKUP - OIS 262 AND BLACK PHONE.

1. DESCRIPTION: PROJECT ENGINEER-1 OIS-161

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17, 26,27,37,44	T		MCC FOR DISTRIBUTION
T2	7,14,17 26,27,37,44	T	1	EXT TO B-NS/HOU TOWER II
K3	7,26	T	1	MCC FOR EXT. TO DFRC

POC: KSC/PH-I2/DEBBIE AWTONOMOW/321 861-3972
COMM CONTACT: JSC/DV/KEN JONES/281 483-7671

NOTE 1: SEE LLS2700, ITEM K51GTX, DBR 208463, FOR TIMES CIRCUIT IS ESTABLISHED AND RELEASED.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 240255
ITEM NUMBER: TX32.1T

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/12/05
RESPONSE TRACKING: Z0405-2 Z3861 Z4903 Z6310 Z8306

[PRD] DATABASE RECORD: 285924 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/01/04
INITIAL DATE: 08/26/88
ITEM NUMBER: X32.1.1X DATE LAST CHANGED: 03/20/07
SECTION: 2750 TIME LAST CHANGED: 08:25:20

REQUESTER: DFRC
SUBREQUESTER: KSC/PH-I KSC/PH-L
TEST CODE: CKT26 EAFB STSALL

ASSOCIATED DOC: 20007S 20026S
TRACKING NO. COMREV05 DB98 KING2001 L2655 R107-3
R109-89 R2809
PRIORITY: REQUIRED
RATIONALE: BACKUP - OIS 262 AND BLACK PHONE.

1. DESCRIPTION: PROJECT ENGINEER-1 OIS-161

RESPONSIBLE AGENCY: DFRC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,26	T	1	SPA OIS 08

POC: DFRC/GEORGE GRIMSHAW/661 276-3425
TECHNICAL CONTACT: KSC/PH-I/DEBBIE AWTONOMOW/321 861-3972
KSC/PH-L/DEAN SCHAAF/321 861-9311
KSC/USK-426/MIKE KUTA/321 861-3980

NOTE 1: SEE LLS2700, ITEM K51GTX, DBR 208463, FOR TIMES
CIRCUIT IS ESTABLISHED AND RELEASED.

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 285924
ITEM NUMBER: X32.1.1X

SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/01/04
RESPONSE TRACKING: Z114-2 Z26201

[PRD] DATABASE RECORD: 209335 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/13/06
INITIAL DATE: 10/18/90
ITEM NUMBER: HBG32.2H DATE LAST CHANGED: 09/14/06
SECTION: 2750 TIME LAST CHANGED: 09:02:31

REQUESTER: MSFC GRC GSFC
TEST CODE: CKT26 S61E16 STSALL STSR28
SUPSIM

ASSOCIATED DOC: 20007S 20008S 20009S 20014S
20017S 20037S 20044S
TRACKING NO. COMREV05 KING2001 L06-8-3 L3840 L8501
M002-9 R0505-7 R0609-3 R109-89 R26157
R3113
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: PROJECT ENGINEER-1 OIS-161

RESPONSIBLE AGENCY: MSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
H1	7,8,9,14,17, 37,44	T		MSFC, FOR DIST
H2	7,14	M		MSFC EXT MSFC/STS VOICE LOOPS TO REMOTE SITES (REF LLS 2750, H3.4.6GHKT, DBR# 539431 FOR LIST OF SITES)
B3	7,14	M	1	EXT TO GRC VIA HOSC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 209335
ITEM NUMBER: HBG32.2H

G4 7, 14 M EXT TO GSFC FOR DIST.

POC: MSFC/PHILIP CAUTHEN/256 544-4204
COMM CONTACT: SCOTT SCHUTZENHOFER/MP71/256 544-8496

TECH CONTACT: KSC/PH-I2/DEBBIE AWTONOMOW/321 861-3972

NOTE 1: MSFC WILL EXTEND CIRCUIT TO GRC IN SUPPORT OF MMT CONTINGENCY SIMS AND FOR STS LAUNCH AND FLIGHT SUPPORT. VOICE LOOP WILL BE CONFIGURED ON EXISTING CIRCUITS FROM L-24 HOURS THROUGH EOM FOR SHUTTLE SUPPORT.

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/13/06
RESPONSE TRACKING: Z3124 Z3861 Z8506

[PRD] DATABASE RECORD: 525474 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/05
INITIAL DATE: 01/26/94
ITEM NUMBER: GY32.3G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:27

REQUESTER: GSFC NASA HQ
SUBREQUESTER: KSC/PH-I2
TEST CODE: CKT26 STSALL

ASSOCIATED DOC: 20007S 20017S 20027S
TRACKING NO. DB98 GSFCREV06 KING2001 L05-2-2 L6008
R0502-3 R0505-5 R0505-7
PRIORITY: REQUIRED
RATIONALE: BACK UP - OIS 262 AND BLACK PHONE.

1. DESCRIPTION: PROJECT ENGINEER-1 OIS-161

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
- -	- - - - - -	- -	- -	- - - - - - - - - - -

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 525474
ITEM NUMBER: GY32.3G

K1	7,17	T		MILA OPS CONSOLE
Y2	7	M		EXTEND TO NASA HQ FOR DIST
K3	7,17	T	1	EXTEND TO WSC/WSSH AT LANDING + 6 HRS

TECH CONTACT: MILA/MELISSA BLIZZARD/321 867-1068
KSC/PH-I2/DEBBIE AWTONOMOW/321 861-3972

COMM CONTACT: GSFC/AL DUANY/301 286-2721

NOTE 1: WSC/WSSH CKT SHARED WITH FLIGHT DIRECTOR UNITL LANDING + 6 HOURS.

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/18/05
RESPONSE TRACKING: Z6021

[PRD] DATABASE RECORD: 303415 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/02/00
INITIAL DATE: 10/17/89
ITEM NUMBER: E32.4E DATE LAST CHANGED: 05/03/06
SECTION: 2750 TIME LAST CHANGED: 07:45:22

REQUESTER: ER
SUBREQUESTER: KSC/PH-I KSC/PH-L
TEST CODE: CKT26 STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. COMREV05 DB98 KING2001 L05-2-2 L9201 R0502-3
PRIORITY: REQUIRED
RATIONALE: BACKUP - OIS 262 AND BLACK PHONE.

1. DESCRIPTION: PROJECT ENGINEER-1 OIS-161

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 303415
ITEM NUMBER: E32.4E

RESPONSIBLE AGENCY: ER

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	27	T	1	EXT FROM WSMR TO WSSH OCC
K2	7,17,37,44	T		EXT TO SRO

POC: ER/MIKE GAWEL/321 853-8118

TECHNICAL CONTACT: KSC/PH-I/DEBBIE AWTONOMOW/321 861-3972

NOTE 1: SEE LLS2700, ITEM K49EGTZ, DBR 184463, FOR TIMES
CIRCUIT IS ESTABLISHED AND RELEASED.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/02/00
RESPONSE TRACKING: Z9202

[PRD] DATABASE RECORD: 19791 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/14/05
INITIAL DATE: 10/17/89
ITEM NUMBER: E32.4.1Z DATE LAST CHANGED: 04/03/07
SECTION: 2750 TIME LAST CHANGED: 12:30:46

REQUESTER: ER
SUBREQUESTER: KSC/PH-I KSC/PH-L
TEST CODE: CKT26 STSALL WSSH

ASSOCIATED DOC: 20027S 25044S
TRACKING NO. COMREV05 DB98 KING2001 L05-2-2 R0502-3
R0504-8
PRIORITY: REQUIRED
RATIONALE: BACKUP - OIS 262 AND BLACK PHONE.

1. DESCRIPTION: TEST PROJECT ENGINEER-1 (TPE) OIS-161

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 19791
ITEM NUMBER: E32.4.1Z

RESPONSIBLE AGENCY: WSTF

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	27	T	1	EXTEND TO WSSH FOR OIS DIST.

THIS IS A SHARED CIRCUIT WITH FLIGHT DIRECTOR. TPE
WILL ACTIVATE AT HANDOVER AND REMAIN ACTIVE UNITL SCA
LIFTOFF.

POC: WSTF/ROBERT MITCHELL/505 524-5774
KSC/PH-I2/DEBBIE AWTONOMOW/321 861-3972

TECHNICAL CONTACT: KSC/PH-L/LOU GARCIA/321 861-6196
KSC/USK-426/MIKE KUTA/321 861-3980

COMM CONTACT: WSTF/ZIGGY ZAPEN/505 524-5556

NOTE 1: SEE LLS2700, ITEM K49EGTZ, DBR 184463, FOR TIMES
CIRCUIT IS ESTABLISHED AND RELEASED.

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/14/05
RESPONSE TRACKING: Z0504-5

[PRD] DATABASE RECORD: 574821 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/16/03
INITIAL DATE: 12/16/03
ITEM NUMBER: KEHT33K DATE LAST CHANGED: 05/03/06
SECTION: 2750 TIME LAST CHANGED: 07:47:13

REQUESTER: KSC ER MSFC
JSC
SUBREQUESTER: FR2 KSC/MK-SIO KSC/PH-I2 OMR1/3/4
OSR1/3/4
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20008S 20009S 20014S

CONTINUED

[PRD] DATABASE RECORD: 574821
ITEM NUMBER: KEHT33K

20017S 20026S 20027S 20037S
20044S
TRACKING NO. COMREV05 R0312-3
PRIORITY: REQUIRED
RATIONALE: BACKUP OIS 161 AND BLACK PHONE.

1. DESCRIPTION: PROJECT ENGINEER-2 OIS-262

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17, 26,27,37,44	T		CDSC FOR EXTENSION TO JSC
H2	7,8,9,14 17,37,44	T		CDSC FOR EXTENSION TO MSFC
K3	7,17,37,44	T		CDSC FOR EXTENSION TO MIL
K4	7,17,37,44	T		CDSC FOR EXTENSION TO ER

OSR 1/3/4

Y5 ALL POS REF SEC 3020
ITEM HKTY1.1.1K, DBR 024257

OMR 1/3/4

Y6 ALL POS REF SEC 3020
ITEM DHKTY1.1.2K, DBR 024268

FR 2

T7 ALL JSC CONS REF SEC 3020
ITEM T44.1K, DBR 024313

H8 ALL MSFC CONS REF SEC 3020
ITEM H46.1K, DBR 024286

T9 ALL JSC CONS REF SEC 3020

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 574821
ITEM NUMBER: KEHT33K

ITEM T66.1K, DBR 517193

POC: KSC/PH-I2/DEBBIE AWTONOMOW/321 861-3972
COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/16/03
RESPONSE TRACKING: Z0312-6

[PRD] DATABASE RECORD: 574818 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/16/03
INITIAL DATE: 12/16/03
ITEM NUMBER: TX33.1KT DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 07:15:51

REQUESTER: JSC DFRC
SUBREQUESTER: KSC-PH-I2
TEST CODE:

ASSOCIATED DOC: 20007S 20014S 20017S 20026S
20027S 20037S 20044S
TRACKING NO. COMREV05 L04-2-2 R0312-3 R0402-3
PRIORITY: REQUIRED
RATIONALE: BACKUP OIS-161 AND BLACK PHONE.

1. DESCRIPTION: PROJECT ENGINEER-2 OIS-262

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17, 26,27,37,44	T		MCC FOR DISTRIBUTION
T2	7,14,17, 26,27,37,44	T	1,2,3	EXT TO B-NS/HOU TOWER II
K3	7,26	T	1	MCC FOR EXT TO DFRC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 574818
ITEM NUMBER: TX33.1KT

POC: KSC/PH-I2/DEBBIE AWTONOMOW/321 861-3972
COMM CONTACT: JSC/KEN JONES/281 483-7671

NOTE 1: SEE LLS2700, ITEM K51GTX, DBR 208463, FOR TIMES CIRCUIT IS ESTABLISHED AND RELEASED.
NOTE 2: SEE LLS2700, ITEM K49EGTZ, DBR 184463, FOR TIMES CIRCUIT IS ESTABLISHED AND RELEASED.
NOTE 3: SEE LLS2734, ITEM T14.2G, DBR 20985.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/16/03
RESPONSE TRACKING: Z0312-6

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/26/04
RESPONSE TRACKING: Z0402-4

[PRD] DATABASE RECORD: 574820 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/16/03
INITIAL DATE: 12/16/03
ITEM NUMBER: K33.1.1X DATE LAST CHANGED: 03/20/07
SECTION: 2750 TIME LAST CHANGED: 08:34:08

REQUESTER: KSC
SUBREQUESTER: NE-O
TEST CODE:

ASSOCIATED DOC: 20007S 20026S
TRACKING NO. L04-6-3 R0312-3
PRIORITY: REQUIRED
RATIONALE: BACKUP OIS 161 AND BLACK PHONE.

1. DESCRIPTION: PROJECT ENGINEER-2 OIS-262

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 574820
ITEM NUMBER: K33.1.1X

REPONSIBLE AGENCY: DFRC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
1	7,26	T	1	SPA OIS 13

POC: DFRC/GEORGE GRIMSHAW/661 276-3425
KSC/PH-I2/DEBBIE AWTONOMOW/321 861-3972

TECH CONTACT: KSC/PH-L/DEAN SCHAAF/321 861-9311

NOTE 1: SEE LLS2700, ITEM K51GTX, DBR 208463, FOR TIMES CIRCUIT IS ESTABLISHED AND RELEASED.

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
RESPONDER: GEORGE GRIMSHAW/661 276 3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/16/03

[PRD] DATABASE RECORD: 574819 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/16/03
INITIAL DATE: 12/16/03
ITEM NUMBER: H33.2H DATE LAST CHANGED: 11/20/06
SECTION: 2750 TIME LAST CHANGED: 10:01:38

REQUESTER: MSFC
SUBREQUESTER: KSC/PH-I2
TEST CODE:

ASSOCIATED DOC: 20007S 20008S 20009S 20014S
20017S 20037S 20044S
TRACKING NO. COMREV05 R0312-3
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: PROJECT ENGINEER-2 OIS-262

RESPONSIBLE AGENCY: MSFC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 574819
ITEM NUMBER: H33.2H

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
1	7,8,9,14,17, 37,44	T		MSFC, FOR DIST.
2	7,14	M		MSFC EXT MSFC/STS VOICE LOOPS TO REMOTE SITES (REF LLS 2750, H3.4.6GHKT, DBR 539431 FOR LIST OF SITES)

POC: MSFC/PHILIP CAUTHEN/EO60/256 544-4204
KSC/PH-I2/DEBBIE AWTONOMOW/321 861-3972

COMM CONTACT: MSFC/SCOTT SCHUTZENHOFER/MP71/256 544-8496

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/05/04

[PRD] DATABASE RECORD: 574817 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/16/03
INITIAL DATE: 12/16/03
ITEM NUMBER: KG33.3G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:27

REQUESTER: KSC GSFC
SUBREQUESTER: KSC/PH-I2
TEST CODE:

ASSOCIATED DOC: 20007S 20017S
TRACKING NO. COMREV05 GSFCREV06 L06-4-2 R0312-3
PRIORITY: REQUIRED
RATIONALE: BACKUP OIS-161 AND BLACK PHONE.

1. DESCRIPTION: PROJECT ENGINEER-2 OIS-262

REPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 574817
ITEM NUMBER: KG33.3G

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1	7,17	T		MILA OPS CONSOLE
2	7,17	T	1	EXT TO WSC/WSSH
3	7,17	T		EXT TO NASA HQ

NOTE 1: WSC/WSSH CKT SHARED WITH FLIGHT DIRECTOR UNTIL LANDING
+ 6 HOURS.

POC: MILA/MELISSA BLIZZARD/321 867-1068
KSC/PH-I2/DEBBIE AWTONOMOW/321 861-3972

COMM CONTACT: GSFC/AL DUANY/301 286-2721
KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/18/03

[PRD] DATABASE RECORD: 574816 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/16/03
INITIAL DATE: 12/16/03
ITEM NUMBER: E33.4E DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 07:26:58

REQUESTER: ER
SUBREQUESTER: DDMS KSC/PH-I
TEST CODE:

ASSOCIATED DOC: 20027S
TRACKING NO. COMREV05 R0312-3
PRIORITY: REQUIRED
RATIONALE: BACKUP OIS-161 AND BLACK PHONE.

1. DESCRIPTION: PROJECT ENGINEER-2 OIS-262

RESPONSIBLE AGENCY: ER

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 574816
ITEM NUMBER: E33.4E

K1	27	T	1	EXT FROM WSMR TO WSSH OCC
K2	7,17,37,44	T		EXT TO SRO

POC: ER/MIKE GAWEL/321 853-8118
KSC/PH-I2/DEBBIE AWTONOMOW/321 861-3972

NOTE 1: SEE LLS2700, ITEM K49EGTZ, DBR 184463, FOR TIMES
CIRCUIT IS ESTABLISHED AND RELEASED.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 06/14/05
RESPONSE TRACKING: Z0312-6

[PRD] DATABASE RECORD: 211127 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/12/91
INITIAL DATE: 05/17/88
ITEM NUMBER: KT34K DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 09:32:15

REQUESTER:	KSC	JSC			
SUBREQUESTER:	FR1/3/4	KSC/MK-SIO	OMR1/3/4	OSR1/3/4	
TEST CODE:	CKT27	S61C04	STSALL	SUPSIM	
ASSOCIATED DOC:	20007S	20014S	20017S	20028S	
	20037S	20044S			
TRACKING NO.	COMREV05	KING2001	L03-8-1	L2604	L3916
	R109-89	R2658	R2809	RTF114-5	

1. DESCRIPTION: BIOMED OIS-163

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17,	T		CDSC FOR DIST

CONTINUED

[PRD] DATABASE RECORD: 211127
ITEM NUMBER: KT34K

	37,44		
T2	7,14,17,28	T	CDSC FOR EXT. TO JSC
			FR1/3/4
			- - - - - - - - -
T3	7,14,17,28	T	JSC CREW PHYS. CONS
			AC-4
			OSR1/3/4
			- - - - - - - - - - - - - -
Y4			ALL POS REF SEC 3020
			ITEM HKTY1.1.1K, DBR 024257
			OMR1/3/4
			- - - - - - - - - - - - - -
Y5			ALL POS REF SEC 3020
			ITEM DHKTY1.1.2K, DBR 024268
			FR2
			- - - - - - - - - - - - - -
T6			ALL JSC CONS REF SEC 3020
			ITEM T44.1K, DBR 024313

TECH CONTACT: KSC/DEBBIE AWTONOMOW/321 861-3972
COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/12/91
RESPONSE TRACKING: Z2679 Z3953

[PRD] DATABASE RECORD: 214757 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/13/03
INITIAL DATE: 05/17/88
ITEM NUMBER: T34.1T DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 09:33:40

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 214757
ITEM NUMBER: T34.1T

REQUESTER: JSC
TEST CODE: CKT27 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S 20028S
TRACKING NO. COMREV05 KING2001 L03-8-1 L2604 R109-89
R2809 RTF114-5

1. DESCRIPTION: BIOMED OIS 163

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17,28	T	1	MCC FOR DISTRIBUTION

COMM CONTACT: JSC/DV/KEN JONES/281 483-7671

NOTE 1: DISTRIBUTION TO FCT AND MEDICAL PERSONNEL ONLY.

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/13/03

[PRD] DATABASE RECORD: 179204 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/09/05
INITIAL DATE: 04/12/91
ITEM NUMBER: HKT35K DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 07:30:14

REQUESTER: MSFC KSC JSC
SUBREQUESTER: ESA FR2 JSC/B-NS KSC/MK-SIO
OMR1/3/4 OSR1/3/4
TEST CODE: CKT29 S61C04 S61E16 STSALL
STSR28 SUPSIM

CONTINUED

[PRD] DATABASE RECORD: 179204
ITEM NUMBER: HKT35K

ASSOCIATED DOC: 20007S 20014S 20017S 20037S 20044S

TRACKING NO.	COMREV05	KING2001	L03-12-2	L03-8-1	L05-2-2
	L2604	L3534	L3624	L3840	L3856
	L3916	L5329	ML12-90	R0312-4	R0502-3
	R107-5	R109-89	R26157	R26185	R2658
	R2725	R4212	RSRR136	RTF114-5	

PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: LIQUID HYDROGEN OIS-166

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17,37,44	T		CDSC FOR DIST
T2	7,14,17,37,44	M		CDSC FOR EXTENSION TO JSC
H3	7,14,17, 37,44	M		CDSC FOR SWITCHING TO MSFC
				OSR1/3/4
Y4				ALL POS REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257
				OMR1/3/4
Y5				ALL POS REF SEC 3020 ITEM DHKTY1.1.2K, DBR 024268
				FR2
T6				ALL JSC CONS REF SEC 3020 ITEM T44.1K, DBR 024313
H7				ALL MSFC CONS REF SEC 3020 ITEM H46.1K, DBR 024286

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 179204
ITEM NUMBER: HKT35K

	LCC ESA RM. 3R18
	- - - - - - - - - - - - -
T8	ALL JSC CONS REF SEC 3020
	ITEM T66.1K, DBR 517193

COMM. CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/09/05
RESPONSE TRACKING: Z0310-1 Z2679 Z2908 Z3536 Z3621
Z3861 Z3882 Z3953 Z4217 Z5323

[PRD] DATABASE RECORD: 325539 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/09/05
INITIAL DATE: 08/13/03
ITEM NUMBER: T35.1T DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 09:35:07

REQUESTER: JSC
TEST CODE: CKT29 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S 20037S
20044S
TRACKING NO. COMREV05 KING2001 L05-2-2 L2604 L3840
R0502-3 R107-3 R107-5 R109-89

1. DESCRIPTION: LIQUID HYDROGEN OIS-166

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
- -	- - - - - -	- -	- -	- - - - - - - - - -
T1	7,14,17,37,44	M		MCC FOR DISTRIBUTION

COMM CONTACT: JSC/DV/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)

CONTINUED

[PRD] DATABASE RECORD: 325539
ITEM NUMBER: T35.1T

RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/09/05
RESPONSE TRACKING: Z107-6 Z3861

[PRD] DATABASE RECORD: 329876 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/06/01
INITIAL DATE: 10/31/01
ITEM NUMBER: H35.2H DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 09:35:42

REQUESTER: MSFC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20014S 20017S 20037S
20044S
TRACKING NO. COMREV05 KING2001 R109-1
PRIORITY: REQUIRED
RATIONALE: STS VOICE LOOPS REQUIRED FOR COGNIZNAT ENGINEERS AT MSFC AND AT REMOTE LOCATIONS TO MONITOR THE PROGRESS OF SHUTTLE TESTING AND LAUNCH SUPPORT.

1. DESCRIPTION: LIQUID HYDROGEN OIS-166

RESPONSIBLE AGENCY: MSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
H1	7,14,17, 37,44	M		HOSC FOR DISTRIBUTION

POC: PHILIP CAUTHEN/EO60/256-544-4204
COMM. CONTACT: SCOTT SCHUTZENHOFER/MP71/256-544-8496

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/06/01
RESPONSE TRACKING: Z109-1

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 227433 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/23/05
INITIAL DATE: 04/12/91
ITEM NUMBER: GK36K DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 09:37:08

REQUESTER: GSFC KSC
SUBREQUESTER: ESA FR2 KSC/MK-SIO KSC/PH-G
MS101 OMR1/3/4 OSR1/3/4
TEST CODE: CKT30 STSALL

ASSOCIATED DOC: 20007S 20014S 20017S 20037S
20044S
TRACKING NO. COMREV05 KING2001 L3534 L3840 L3856
L3916 L5329 ML012-90 R0501-1A R109-89
R26185 R2658 R2672 R2725 R2827
R2927 R2928 R4212 R9201 RSRR136
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: MAIN PROPULSION SYSTEM-1 OIS-168

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17,37,44	T		CDSC FOR DIST
K1.1	7,21	T		CDSC FOR EXT TO GSFC
				OSR1/3/4
Y2				ALL POS REF SEC 3030 ITEM HKTY1.1.1K, DBR 024257
				OMR1/3/4
Y3				ALL POS REF SEC 3030 ITEM DHKTY1.1.2K, DBR 024268
				FR2
T6				ALL JSC CONS REF SEC 3030

CONTINUED

[PRD] DATABASE RECORD: 227433
ITEM NUMBER: GK36K

ITEM T44.1K, DBR 024313

H7 ALL MSFC CONS REF SEC 3030
ITEM H46.1K, DBR 024286

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/23/05
RESPONSE TRACKING: Z2679 Z2816 Z2908 Z2949 Z3536
Z3861 Z3882 Z3953 Z4217 Z5323
Z9201

[PRD] DATABASE RECORD: 579881 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/15/05
INITIAL DATE: 02/23/05
ITEM NUMBER: G36.1G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:28

REQUESTER: GSFC
SUBREQUESTER: KSC KSC/PH-L
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S 25044S
TRACKING NO. COMREV05 R0501-1 R0501-1A R0504-8

1. DESCRIPTION: MAIN PROPULSION SYSTEM (MPS) (OIS-168)

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	27	T	1	EXTEND TO WSC/WSSH

COMM CONTACT: GSFC/AL DUANY/301 286-2721

NOTE 1: EXTENDED FOR A WSSH TURNAROUND. THIS IS A SHARED CIRCUIT

CONTINUED

[PRD] DATABASE RECORD: 579881
ITEM NUMBER: G36.1G

WITH TRACK COORD. MPS WILL ACTIVATE AT HANDOVER AND TERMINATE AT SCA LIFTOFF.

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: WSC/WSGT WSMR WSTF
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/15/05
RESPONSE TRACKING: Z0504-5 Z0505-3

[PRD] DATABASE RECORD: 579882 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/15/05
INITIAL DATE: 02/23/05
ITEM NUMBER: K36.1.1Z DATE LAST CHANGED: 04/04/07
SECTION: 2750 TIME LAST CHANGED: 07:15:32

REQUESTER: KSC
SUBREQUESTER: KSC KSC/PH-L
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S 25044S
TRACKING NO. COMREV05 R0501-1 R0501-1A R0504-8

1. DESCRIPTION: MAIN PROPULSION SYSTEM (MPS) (OIS-168)

RESPONSIBLE AGENCY: WSTF

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1K	27, 5044	T	1	EXTEND TO WSSH

POC: WSTF/ROBERT MITCHELL/505 524-5774
TECH CONTACT: KSC/PH-L/LOU GARCIA/321 861-6196
COMM CONTACT: WSTF/ZIGGY ZAPEN/505 524-5556

NOTE 1: EXTENDED FOR A WSSH TURNAROUND. THIS IS A SHARED CIRCUIT WITH TRACK COORD. MPS WILL ACTIVATE AT HANDOVER AND TERMINATE

CONTINUED

[PRD] DATABASE RECORD: 579882
ITEM NUMBER: K36.1.1Z

AT SCA LIFTOFF.

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/15/05
RESPONSE TRACKING: Z0504-5

[PRD] DATABASE RECORD: 240276 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/09/06
INITIAL DATE: 04/12/91
ITEM NUMBER: KT37K DATE LAST CHANGED: 11/15/06
SECTION: 2750 TIME LAST CHANGED: 06:39:42

REQUESTER:	KSC	JSC		
SUBREQUESTER:	FR2	KSC/MK-SIO	KSC/PH-I	M3001
	MER	OMR3/4	OSR3/4	
TEST CODE:	CKT31	S61C04	S61E16	STSALL
	STSR28	SUPSIM		

ASSOCIATED DOC:	20007S	20008S	20009S	20014S	
	20017S	20037S	20044S		
TRACKING NO.	A5501	COMREV05	DB98	KING2001	L03-12-2
	L05-2-2	L06-11-4	L203-8A	L2604	L3916
	L4319	L4336	L4433	L4524	L9201
	R0312-4	R0502-3	R0611-3	R109-89	R26157
	R26185	R2658	R3003	R4203	
PRIORITY:	REQUIRED				
RATIONALE:	ALTERNATE OIS CHANNELS AND BLACK PHONE.				

1. DESCRIPTION: FLIGHT CONTROL-1 OIS-171

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
- -	- - - -	- -	- -	- - - - - - - - - - -

CONTINUED

[PRD] DATABASE RECORD: 240276
ITEM NUMBER: KT37K

1	7,14,17, 37,44	T	CDSC FOR DIST
2	7,14,17,44	T	CDSC EXT. TO JSC
			OSR 3/4
			- - - - - - - - - - - - -
3			ALL POS REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257
			OMR 3/4
			- - - - - - - - - - - - -
4			ALL POS REF SEC 3020 ITEM DHKTY1.1.2K, DBR 024268
			FR2
			- - - - - - - - - - - - -
5			ALL JSC CONS REF SEC 3020 ITEM T44.1K DBR 024313
6			ALL MSFC CONS REF SEC 3020 ITEM H46.1K DBR 024286

POC: KSC/PH-I/DEBBIE AWTONOMOW/321 861-3972

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

NOTE 1: REQUIRED FROM L-8 HRS THRU LIFTOFF DURING LAUNCH COUNTDOWN AND FROM DEORBIT PREP -1 HOUR THRU LANDING +2 HOURS DURING ENTRY.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/14/06
RESPONSE TRACKING: Z2679 Z3004 Z3953 Z4207 Z4348
Z4362 Z4464 Z4538 Z9201

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 314632 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/09/06
INITIAL DATE: 05/17/88
ITEM NUMBER: T37.1T DATE LAST CHANGED: 11/09/06
SECTION: 2750 TIME LAST CHANGED: 14:51:02

REQUESTER: JSC
SUBREQUESTER: KSC/PH-I2
TEST CODE: CKT31 MER STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S 20044S
TRACKING NO. COMREV05 DB98 KING2001 L03-12-2 L04-6-4
L05-2-2 L06-11-4 R0312-4 R0407-1 R0502-3
R0611-3
PRIORITY: REQUIRED
RATIONALE: BACKUP - ALTERNATE OIS CHANNELS AND BLACK PHONE.

1. DESCRIPTION: FLIGHT CONTROL-1 OIS-171

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17,44	T		MCC FOR DISTRIBUTION
K2	7	T	1	MER RM 313, IMU/ST MONITOR STATION
T3	7,14,17,44	T		EXT TO B-NS/HOU TOWER II

COMM CONTACT: JSC/DV/KEN JONES/281 483-7671

NOTE 1: REQUIRED FROM L-8 HRS THRU LIFTOFF DURING LAUNCH COUNTDOWN AND FROM DEORBIT PREP -1 HOUR THRU LANDING +2 HOURS DURING ENTRY.

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/09/06
RESPONSE TRACKING: Z0312-5 Z0407-1

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 20620 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/25/00
INITIAL DATE: 04/12/91
ITEM NUMBER: KT38K DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 09:44:22

REQUESTER: KSC JSC
SUBREQUESTER: FR2 KSC/MK-SIO OMR1/3/4 OSR1/3/4
TEST CODE: CKT31 STSALL

ASSOCIATED DOC: 20007S 20014S 20017S 20037S
20044S
TRACKING NO. COMREV05 KING2001 L04-1-2 R0401-2

1. DESCRIPTION: ECS-1 OIS-172

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17,37,44	T		CDSC FOR DIST
T2	7,14,17,44	T		CDSC FOR EXT TO JSC
				OSR1/3/4
Y3				ALL POS REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257
				OMR1/3/4
Y4				ALL POS REF SEC 3020 ITEM DHKTY1.1.2K, DBR 024268
				FR2
T5				ALL JSC CONS REF SEC 3020 ITEM T44.1K, DBR 024313

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 20620
ITEM NUMBER: KT38K

SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/25/00

[PRD] DATABASE RECORD: 20621 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/25/00
INITIAL DATE: 12/17/90
ITEM NUMBER: T38.1T DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 09:44:40

REQUESTER: JSC
TEST CODE: CKT31 STSALL

ASSOCIATED DOC: 20007S 20014S 20017S
TRACKING NO. COMREV05 KING2001 L9201 R109-89 R3907

1. DESCRIPTION: ECS-1 OIS-172

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17	T		MCC FOR DIST

COMM CONTACT: JSC/DV/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/03/00
RESPONSE TRACKING: Z3909 Z9204

[PRD] DATABASE RECORD: 317263 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/25/00
INITIAL DATE: 04/12/91
ITEM NUMBER: KT39K DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 07:30:34

REQUESTER: KSC JSC
SUBREQUESTER: FR2 KSC/MK-SIO OMR1/3/4 OSR1/3/4

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 317263
ITEM NUMBER: KT39K

TEST CODE: CKT32 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S 20037S 20044S
TRACKING NO. COMREV05 KING2001 L2604 L3916 L9201 R109-89

1. DESCRIPTION: NAV AIDS OIS-173

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17, 37,44	T		CDSC FOR DIST
T2	7,17,44	T		CDSC FOR EXTENSION TO JSC
				OSR1/3/4
Y3				ALL POS REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257
				OMR1/3/4
Y4				ALL POS 1-18 REF SEC 3020 ITEM DHKTY1.1.2K, DBR 024268
				FR2
T5				ALL JSC CONS REF SEC 3020 ITEM T44.1K, DBR 024313

TECH CONTACT: KSC/DEBBIE AWTONOMOW/321 861-3972
COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)

CONTINUED

[PRD] DATABASE RECORD: 317263
ITEM NUMBER: KT39K

SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/25/00
RESPONSE TRACKING: Z3953 Z9201

[PRD] DATABASE RECORD: 318998 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/16/03
INITIAL DATE: 05/17/88
ITEM NUMBER: T39.1T DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 07:31:28

REQUESTER: JSC
TEST CODE: CKT32 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20017S 20044S
TRACKING NO. COMREV05 KING2001 L03-12-2 L2604 R0312-4
R109-89

1. DESCRIPTION: NAV AIDS OIS-173

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,17,44	T		MCC FOR DISTRIBUTION

COMM CONTACT: JSC/DV/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/16/03
RESPONSE TRACKING: Z0312-5

[PRD] DATABASE RECORD: 179067 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/30/04
INITIAL DATE: 04/12/91
ITEM NUMBER: KEHT40K DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 07:32:07

REQUESTER: KSC ER MSFC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 179067
ITEM NUMBER: KEHT40K

SUBREQUESTER:	JSC FR1/3/4 KSC/TA-E	FR2 OMR1/3/4	KSC/MK-SIO OSR1/3/4	KSC/PH-L
TEST CODE:	CKT33 SUPSIM	S61E16	STSALL	STSR28
ASSOCIATED DOC:	20007S 20037S	20009S 20044S	20014S 25009S	20017S
TRACKING NO.	COMREV05 L04-1-2 L3856 R109-89	DB98 L113-3 L3916 R26157	KING2001 L2919 L9201 R26185	L02-11-1 L3611 R0312-4 R2658	L03-12-2 L3840 R0401-2
PRIORITY:	REQUIRED				
RATIONALE:	ALTERNATE COMMUNICATION SOURCES AVAILABLE.				

1. DESCRIPTION: RANGE SAFETY AND SRB INSTRUMENTATION OIS-175

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,9,14, 17,25009	T		CDSC FOR EXT. TO CCAFS
H2	7,9,14,17, 37,44	T		CDSC FOR SWITCHING TO MSFC
T3	7,9,14,17, 37,44	T		EXT TO JSC
				OSR1/3/4
Y4				ALL POS REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257
				OMR1/3/4
Y5				ALL POS REF SEC 3020 ITEM DHKTY1.1.2K, DBR 024268
				FR1/3/4

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 179067
ITEM NUMBER: KEHT40K

- - - - - -

E6 7,9,17,25009 T RSR CONSOLE

FR2
- - - - - - - - - - - - -

H7 ALL MSFC CONS REF SEC 3020
ITEM H46.1K, DBR 024286

PRIME: KSC/PH-L/TED MOSTELLER/321 861-9307

TECHNICAL CONTACT: KSC/DEBBIE AWTONOMOW/321 861-3972
COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-3-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/30/04
RESPONSE TRACKING: Z113-9 Z2679 Z2967 Z3626 Z3861
Z3882 Z3953 Z9201

[PRD] DATABASE RECORD: 200321 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/28/02
INITIAL DATE: 02/07/90
ITEM NUMBER: E40.1E DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 09:58:57

REQUESTER: ER
SUBREQUESTER: KSC/PH-L KSC/TA-E
TEST CODE: CKT33 STSALL

ASSOCIATED DOC: 20007S 20009S 20014S 20017S
25009S
TRACKING NO. COMREV05 KING2001 L3611 L3624 MK98
R109-89 R26209 R3443 R4218
PRIORITY: REQUIRED
RATIONALE: ALTERNATE COMMUNICATION SOURCES AVAILABLE.

1. DESCRIPTION: RANGE SAFETY AND SRB INSTRUMENTATION OIS-175

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 200321
ITEM NUMBER: E40.1E

(L-5 HOURS)

RESPONSIBLE AGENCY: ER

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,9,14, 17,25009	T		CCAFS, ROCC, FCO/SRO/CSC CONSOLES
K2	7	T		CCAFS, ROCC, NASA R/S REP CONS
K3	7,14,17	T		CCAFS, ROCC, NASA MGMT. CONS.
K4	7,14,17	T		CCAFS, LRCC NASA PROJECT CONSOLE

POC: ER/MIKE GAWEL/321 853-8118
PRIME: KSC/TA-E/BILL HAASE/321 853-9167
KSC/PH-L/TED MOSTELLLER/321 861-9307

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/28/02
RESPONSE TRACKING: Z26142 Z2676 Z3428 Z3609 Z3621
Z4225 Z6923

[PRD] DATABASE RECORD: 310119 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/14/01
INITIAL DATE: 10/31/01
ITEM NUMBER: H40.2H DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 10:03:12

REQUESTER: MSFC
TEST CODE: A16E16 CKT33 S61E16 STSALL

ASSOCIATED DOC: 20007S 20008S 20009S 20014S
20044S
TRACKING NO. COMREV05 KING2001 R109-1 R109-4

CONTINUED

[PRD] DATABASE RECORD: 310119
ITEM NUMBER: H40.2H

PRIORITY: REQUIRED
RATIONALE: STS VOICE LOOPS REQUIRED FOR COGNIZANT ENGINEER AT MSFC AND AT REMOTE LOCATIONS TO MONITOR THE PROGRESS OF SHUTTLE TESTING AND LAUNCH SUPPORT.

1. DESCRIPTION: RANGE SAFETY AND SRB INSTRUMENTATION OIS-175

RESPONSIBLE AGENCY: MSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
H1	7,8,9,14,44	T		HOSC FOR DISTRIBUTION

POC: PHILIP CAUTHEN/EO60/256-544-4204
COMM CONTACT: SCOTT SCHUTZENHOFER/MP71/256-544-8496

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/14/01
RESPONSE TRACKING: Z109-1 Z109-2

[PRD] DATABASE RECORD: 574799 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/16/03
INITIAL DATE: 12/16/03
ITEM NUMBER: T40.3T DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 10:03:26

REQUESTER: JSC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20009S 20014S 20017S
20037S 20044S
TRACKING NO. COMREV05 L03-12-2 R0312-4
PRIORITY: REQUIRED
RATIONALE: ALTERNATE COMMUNICATION SOURCES AVAILABLE.

1. DESCRIPTION: RANGE SAFETY AND SRB INSTRUMENTATION OIS-175

RESPONSIBLE AGENCY: JSC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 574799
ITEM NUMBER: T40.3T

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,9,14,17, 37,44	T		MCC FOR DISTRIBUTION

COMM CONTACT: JSC/DV/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/16/03
RESPONSE TRACKING: Z0312-5

[PRD] DATABASE RECORD: 203435 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/28/02
INITIAL DATE: 04/12/91
ITEM NUMBER: K41K DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 10:04:50

REQUESTER: KSC
SUBREQUESTER: ESA FR2 KSC/MK-SIO MS101
OMR1/3/4 OSR1/3/4
TEST CODE: CKT34 S61E16 STSALL STSR28
SUPSIM

ASSOCIATED DOC: 20007S 20008S 20009S 20014S
20017S 20037S 20044S
TRACKING NO. COMREV05 KING2001 L3534 L3840 L3856
L3916 L5329 ML012-90 R109-89 R26157
R26185 R2658 R4212 RSRR136
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: ET ELECTRICAL OIS-176

RESPONSIBLE AGENCY: KSC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 203435
ITEM NUMBER: K41K

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,8,9,14, 17,37,44	M		CDSC DISTRIBUTION TO KSC
				OSR1/3/4
Y2				ALL POS REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257
				OMR1/3/4
Y3				ALL POS REF SEC 3020 ITEM DHKTY1.1.2K, DBR 024268
				FR2
H4				ALL MSFC CONS REF SEC 3020 ITEM H46.1K, DBR 024286

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/28/02
RESPONSE TRACKING: Z2679 Z3536 Z3861 Z3953 Z4217 Z5323

[PRD] DATABASE RECORD: 20622 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/11/02
INITIAL DATE: 04/12/91
ITEM NUMBER: KH42K DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 10:06:12

REQUESTER: KSC MSFC
SUBREQUESTER: FR2 KSC/MK-SIO OMR1/3/4 OSR1/3/4
TEST CODE: CKT34 STSALL

ASSOCIATED DOC: 20007S 20014S 20017S 20037S 20044S

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 20622
ITEM NUMBER: KH42K

TRACKING NO. COMREV05 KING2001 L3624 L3916 L9201
R109-89 R113-4

1. DESCRIPTION: HAZARDOUS GAS DETECTION SYSTEM (HGDS) OIS-177

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,14,17,37,44	T		CDSC FOR DIST
H2	7,14,17,37,44	T		EXT TO MSFC
				OSR1/3/4
Y3				ALL POS REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257
				OMR1/3/4
Y4				ALL POS REF SEC 3020 ITEM DHKTY1.1.2K, DBR 024268
				FR2
T5				ALL JSC CONS REF SEC 3020 ITEM T44.1K, DBR 024313
H6				ALL MSFC CONS REF SEC 3020 ITEM H46.1K, DBR 024286

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/11/02
RESPONSE TRACKING: Z113-7 Z3621 Z3953 Z9201

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 20623 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/14/01
INITIAL DATE: 10/31/01
ITEM NUMBER: H42.1H DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 10:06:33

REQUESTER: MSFC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20014S 20017S
TRACKING NO. COMREV05 KING2001 R109-1
PRIORITY: REQUIRED
RATIONALE: STS VOICE LOOPS REQUIRED FOR COGNIZANT ENGINEERS AT MSFC AND AT REMOTE LOCATIONS TO MONITOR THE PROGRESS OF SHUTTLE TESTING AND LAUNCH SUPPORT.

1. DESCRIPTION: HAZARDOUS GAS DETECTION SYSTEM (HGDS) OIS-177
RESPONSIBLE AGENCY: MSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
H1	7,14,17	M		HOSC FOR DISTRIBUTION

POC: PHILIP CAUTHEN/EO60/256-544-4204
COMM. CONTACT: SCOTT SCHUTZENHOFER/MP71-256-544-8496

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/14/01
RESPONSE TRACKING: Z109-1

[PRD] DATABASE RECORD: 195480 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/25/00
INITIAL DATE: 06/01/89
ITEM NUMBER: KHT43K DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 10:07:20

REQUESTER:	KSC	MSFC		JSC
SUBREQUESTER:	FR2	KSC/MK-SIO	OMR1/3/4	OSR1/3/4
TEST CODE:	CKT35	STSALL	STSR44	SUPSIM

CONTINUED

[PRD] DATABASE RECORD: 195480
ITEM NUMBER: KHT43K

ASSOCIATED DOC: 20007S 20009S 20014S 20017S
20037S 20044S
TRACKING NO. COMREV05 KING2001 L2604 L2617 L3916
L4526 L9201 R109-89 R2827
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: HYDRAULICS/ORBITER-1 OIS-182

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,9,14,17, 37,44	T		CDSC FOR DIST
T2	7,9,14,17, 44	T		CDSC EXTENSION TO JSC
H3	7	T		CDSC FOR SWITCHING TO MSFC
				OSR1/3/4
Y4				ALL POS REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257
				OMR1/3/4
Y5				ALL POS REF SEC 3020 ITEM DHKTY1.1.2K, DBR 024268
				FR2
T6				ALL JSC CONS REF SEC 3020 ITEM T44.1K, DBR 024313
H7				ALL MSFC CONS REF SEC 3020 ITEM H46.1K, DBR 024286

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 195480
ITEM NUMBER: KHT43K

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/25/00
RESPONSE TRACKING: Z26101 Z2816 Z3953 Z4540 Z9201

[PRD] DATABASE RECORD: 178305 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/16/03
INITIAL DATE: 05/17/88
ITEM NUMBER: T43.1T DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 10:08:00

REQUESTER: JSC
TEST CODE: CKT35 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20009S 20014S 20044S
TRACKING NO. COMREV05 KING2001 L03-12-2 L2604 L4526
L9201 R0312-4 R109-89
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: HYDRAULICS/ORBITER-1 OIS-182

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,9,14,44	T		MCC FOR DISTRIBUTION

COMM CONTACT: JSC/DV/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/16/03
RESPONSE TRACKING: Z0312-5 Z4540 Z9204

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 18666 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/14/01
INITIAL DATE: 11/05/01
ITEM NUMBER: H43.2H DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 10:08:21

REQUESTER: MSFC
TEST CODE: CKT35 STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 KING2001 R109-1 R109-4
PRIORITY: REQUIRED
RATIONALE: STS VOICE LOOPS REQUIRED FOR COGNIZANT ENGINEERS AT MSFC AND AT REMOTE LOCATIONS TO MONITOR THE PROGRESS OF SHUTTLE TESTING AND LAUNCH SUPPORT.

1. DESCRIPTION: HYDRAULICS/ORBITER-1 OIS-182

RESPONSIBLE AGENCY: MSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
H1	7	T		HOSC FOR DISTRIBUTION

POC: PHILIP CAUTHEN/EO60/256-544-4204
COMM CONTACT: SCOTT SCHUTZENHOFER/MP71/256-544-8496

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/321 867-8540

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/14/01
RESPONSE TRACKING: Z109-1 Z109-2

[PRD] DATABASE RECORD: 223718 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/25/00
INITIAL DATE: 04/12/91
ITEM NUMBER: K44K DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 07:34:42

REQUESTER: KSC
SUBREQUESTER: ESA FR2 KSC/MK-SIO MS101
OMR1/3/4 OSR1/3/4
TEST CODE: CKT38 S61E16 STSALL

CONTINUED

[PRD] DATABASE RECORD: 223718
ITEM NUMBER: K44K

ASSOCIATED DOC:	20007S	20014S	20017S	20037S	
TRACKING NO.	COMREV05	KING2001	L3840	L3856	L3916
	L9201	R109-89	R26185	R2658	R4212

PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: ET PNEUMATICS OIS-186

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17,37, 44	T		CDSC FOR DIST
				OSR1/3/4
Y2				ALL POS REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257
				OMR1/3/4
Y3				ALL POS REF SEC 3020 ITEM DHKTY1.1.2K, DBR 024268
				FR2
H4				ALL MSFC CONS REF SEC 3020 ITEM H46.1K, DBR 024286

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/25/00

RESPONSE TRACKING:	Z2679	Z3861	Z3882	Z3953	Z4217
	Z9201				

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 226926 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/07/02
INITIAL DATE: 04/12/91
ITEM NUMBER: KHT45K DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 10:11:10

REQUESTER:	KSC	MSFC	JSC	
SUBREQUESTER:	FR2	KSC/MK-SIO	OMR1/3/4	OSR1/3/4
TEST CODE:	CKT39	S61E16	STSALL	STSR28
	SUPSIM			
ASSOCIATED DOC:	20007S	20008S	20009S	20014S
	20017S	20044S		
TRACKING NO.	COMREV05	KING2001	L02-11-1	L113-3	L3916
	L9201	R109-89	R26157	R26185	R2658
PRIORITY:	REQUIRED			
RATIONALE:	MISSION SUPPORT			

1. DESCRIPTION: HYDRAULICS/SRB OIS-187

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,17,44	T		CDSC FOR DIST.
H1	7,8,9,14, 17,44	T		CDSC FOR EXT TO JSC
H2	7,8,9,14, 17,44	T		CDSC FOR SWITCHING TO MSFC
				OSR1/3/4
Y3				ALL POS REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257
				OMR1/3/4
Y4				ALL POS REF SEC 3020 ITEM DHKTY1.1.2K, DBR 024268
				FR2
H5				ALL MSFC CONS REF SEC 3020 ITEM H46.1K, DBR 024286

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 226926
ITEM NUMBER: KHT45K

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/20/02
RESPONSE TRACKING: Z113-9 Z2679 Z3953 Z9201

[PRD] DATABASE RECORD: 574800 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/16/03
INITIAL DATE: 12/16/03
ITEM NUMBER: T45.1T DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 10:11:30

REQUESTER: JSC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20017S 20044S
TRACKING NO. COMREV05 L03-12-2 R0312-4
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: HYDRAULICS/SRB OIS-187

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	LOCATION TERMINATION
T1	7,17,44	T		MCC FOR DISTRIBUTION

COMM CONTACT: JSC/DV/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/16/03
RESPONSE TRACKING: Z0312-5

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 238543 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/11/02
INITIAL DATE: 11/05/01
ITEM NUMBER: H45.2H DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 10:11:48

REQUESTER: MSFC
TEST CODE: CKT39 S61E16 STSALL

ASSOCIATED DOC: 20007S 20008S 20009S 20014S
20017S 20044S
TRACKING NO. COMREV05 KING2001 R107-3 R109-1 R113-4
PRIORITY: REQUIRED
RATIONALE: STS VOICE LOOPS REQUIRED FOR COGNIZANT ENGINEERS AT MSFC AND AT REMOTE LOCATIONS TO MONITOR THE PROGRESS OF SHUTTLE TESTING AND LAUNCH SUPPORT.

1. DESCRIPTION: HYDRAULICS/SRB OIS-187

RESPONSIBLE AGENCY: MSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
H1	7,8,14,17, 9,44	T		HOSC FOR DISTRIBUTION

POC: PHILIP CAUTHEN/EO60/256-544-4204
COMM CONTACT: SCOTT SCHUTZENHOFER/MP71/256-544-8496

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/04/02
RESPONSE TRACKING: Z107-2 Z109-1

[PRD] DATABASE RECORD: 237334 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/30/04
INITIAL DATE: 04/12/91
ITEM NUMBER: KGT46K DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 10:13:20

REQUESTER: KSC GSFC JSC
SUBREQUESTER: FR2 I-MIL KSC/MK-SIO KSC/PH-L
OMR1/3/4 OSR1/3/4

CONTINUED

[PRD] DATABASE RECORD: 237334
ITEM NUMBER: KGT46K

TEST CODE: CKT40 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20009S 20014S 20017S
20037S 20044S
TRACKING NO. COMREV05 DB98 KING2001 L04-1-2 L2608
L3916 R0401-2 R109-89 R8305
PRIORITY: MANDATORY
RATIONALE: MANDATORY PER LAUNCH COMMIT CRITERIA.

1. DESCRIPTION: ORBITER UHF OIS-211

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17, 37,44	T		CDSC FOR DIST
K2	7,9	T		CDSC FOR EXT TO MIL
T3	7,14,17,37, 44	T		CDSC FOR EXT TO JSC/MCC VIA GSFC
				OSR1/3/4
Y4				ALL POS REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257
				OMR1/3/4
Y5				ALL POS REF SEC 3020 ITEM DHKTY1.1.2K, DBR 024268
				FR2
T6				ALL JSC CONS REF SEC 3020 ITEM T44.1K, DBR 024313

PRIME: KSC/PH-L/JEFF SPAULDING/321 861-9306
KSC/PH-L/TED MOSTELLER/321 861-9307

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 237334
ITEM NUMBER: KGT46K

TECHNICAL CONTACT: KSC/PH-I2/DEBBIE AWTONOMOW/321 861-3972
COMM CONTACT: KSC/IT-D2-A/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/30/04
RESPONSE TRACKING: Z3953 Z8306

[PRD] DATABASE RECORD: 204859 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/30/04
INITIAL DATE: 05/25/88
ITEM NUMBER: GK46.1G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:18

REQUESTER: GSFC KSC
SUBREQUESTER: JSC KSC/PH-L
TEST CODE: CKT40 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20009S 20044S
TRACKING NO. COMREV05 DB98 GSFCREV06 KING2001 L04-1-2
L2608 R0401-2 R8305
PRIORITY: MANDATORY
RATIONALE: MANDATORY PER LAUNCH COMMIT CRITERIA.

1. DESCRIPTION: ORBITER UHF OIS-211

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,9	T		MILA OPS SUPERVISOR
T2	7,9,44	T		MILA/KSC CDSC EXT TO JSC/MCC VIA GSFC

TECH CONTACT: MILA/MELISSA BLIZZARD/321 867-1068

COMM CONTACT: GSFC/AL DUANY/301 286-2721

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 204859
ITEM NUMBER: GK46.1G

KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/10/04
RESPONSE TRACKING: Z0402-1 Z26109 Z8306

[PRD] DATABASE RECORD: 575195 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/30/04
INITIAL DATE: 01/30/04
ITEM NUMBER: T46.1.1T DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 10:14:58

REQUESTER: JSC
TEST CODE: STSALL SUPSIM

ASSOCIATED DOC: 20007S 20009S 20044S
TRACKING NO. L04-1-2 R0401-2
PRIORITY: MANDATORY
RATIONALE: MANDATORY PER LAUNCH CRITERA

1. DESCRIPTION: ORBITER UHF OIS-211

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,9,44	T		MCC FOR DISTRIBUTION
T2	7,9,44	T		EXT TO FLIGHT DIRECTOR AND CAPCOM

COMM CONTACT: JSC/DV/KEN JONES/281 483-7671

NOTE: JSC RECEIVES UHF DIRECT (NOT OIS-211)

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 575195
ITEM NUMBER: T46.1.1T

RESPONDER: KEN JONES/281 4183-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/30/04
RESPONSE TRACKING: Z0401-3

[PRD] DATABASE RECORD: 235697 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/30/04
INITIAL DATE: 10/18/90
ITEM NUMBER: KE47K DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 10:15:41

REQUESTER: KSC ER
SUBREQUESTER: FR2 I-MIL KSC/MK-SIO KSC/PH-L
OMR1/3/4 OSR1/3/4
TEST CODE: CKT41 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20009S 20014S 20017S
20037S 20044S
TRACKING NO. COMREV05 DB98 KING2001 L04-1-2 L2608
L3840 L3856 L3916 R0401-2 R109-89
R26185 R26263 R2658 R2725 R2827
R8305
PRIORITY: MANDATORY
RATIONALE: MANDATORY PER LAUNCH COMMIT CRITERIA.

1. DESCRIPTION: AIR-TO-GROUND-1 (A/G-1) OIS-212

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,9,14,37, 44	T		CDSC FOR DIST.
K2	7,9,14,37 44	T		CDSC FOR EXT. TO MILA
K3	7,14,17,37	T		CDSC FOR EXTENSION TO CCAFS
T4	7,9,14,37,44	T		CDSC FOR EXT TO JSC/MCC MILA DIRECT LINE OSR1/3/4

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 235697
ITEM NUMBER: KE47K

		- - - - - - - - - - - - -
Y5	M	ALL POS REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257
		OMR1/3/4 - - - - - - - - - - - - -
Y6	M	ALL POS REF SEC 3020 ITEM DHKTY1.1.2K, DBR 024268
		FR2 - - - - - - - - - - - - -
T7		ALL JSC CONS REF SEC 3020 ITEM T44.1K, DBR 024313
H8		ALL MSFC CONS REF SEC 3020 ITEM H46.1K, DBR 024286

PRIME: KSC/PH-L/JEFF SPAULDING/321 861-9306

TECHNICAL CONACT: KSC/SK/PAT LAMPTON/321 861-4004
COMM. CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/30/04
RESPONSE TRACKING: Z26191 Z2679 Z2816 Z2908 Z3861
Z3882 Z3953 Z8306

[PRD] DATABASE RECORD: 193043 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/30/04
INITIAL DATE: 10/18/90
ITEM NUMBER: GKT47.1G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:17

REQUESTER: GSFC KSC JSC
SUBREQUESTER: KSC/PH-L
TEST CODE: CKT41 STSALL SUPSIM

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 193043
ITEM NUMBER: GKT47.1G

ASSOCIATED DOC: 20007S 20009S 20014S 20037S 20044S
TRACKING NO. COMREV05 DB98 GSFCREV06 KING2001 L03-12-2 L04-1-2 L2608 L3840 R0312-4 R0401-2 R8305
PRIORITY: MANDATORY
RATIONALE: MANDATORY PER LAUNCH COMMIT CRITERA.

1. DESCRIPTION: AIR-TO-GROUND-1 (A/G-1) OIS-212

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,9,14, 37,44	T	1	MILA OPS SUPERVISOR
T2	7,9,14,37,44	T		MILA/KSC CDSC EXT TO JSC/MCC VIA GSFC

NOTE 1: CIRCUIT TO BE DESIGNATED "CRITICAL, DEDICATED AND PROTECTED". SPECIAL EFFORT IS TO BE MADE TO VERIFY THAT ONLY KSC AUTHORIZED TALK DROPS ARE INSTALLED.

PRIME: KSC/PH-L/JEFF SPAULDING/321 861-9306

TECHNICAL CONTACT: MILA/MELISSA BLIZZARD/321 867-1068
COMM CONTACT: GSFC/AL DUANY/301 286-2721
KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/10/04
RESPONSE TRACKING: Z0402-1 Z2675 Z3861 Z8306

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 574801 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/14/06
INITIAL DATE: 12/16/03
ITEM NUMBER: THX47.1.1T DATE LAST CHANGED: 11/15/06
SECTION: 2750 TIME LAST CHANGED: 13:19:33

REQUESTER: JSC MSFC DFRC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20009S 20014S 20037S 20044S
TRACKING NO. COMREV05 L03-12-2 L04-5-2 R0312-4 R0405-3 R0609-3
PRIORITY: MANDATORY
RATIONALE: MANDATORY PER LAUNCH COMMIT CRITERIA

1. DESCRIPTION: AIR TO GROUND-1 (A/G-1) OIS-212

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,9,14,37,44	M		MCC FOR DISTRIBUTION
T2	7,9,14,37,44	T		EXT TO FLIGHT DIRECTOR CONSOLE.
T3	7,9,14,37,44	T		EXT TO CAPCOM CONSOLE
H4	7,9,14,37,44	M		EXT TO MSFC
X5	7,9,14,37,44	M		EXT TO DFRC

COMM CONTACT: JSC/DV/KEN JONES/281 483-7671

NOTE: JSC RECEIVES AIR TO GROUND DIRECT.

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/14/06
RESPONSE TRACKING: Z0312-5 Z0405-2

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 589297 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/14/06
INITIAL DATE: 09/14/06
ITEM NUMBER: HB47.1.1.1H DATE LAST CHANGED: 09/14/06
SECTION: 2750 TIME LAST CHANGED: 09:02:57

REQUESTER: MSFC GRC
TEST CODE: MMT

ASSOCIATED DOC: 20007S
TRACKING NO. L06-8-3 R0609-3

1. DESCRIPTION: AIR TO GROUND-1 (A/G-1) OIS-212

RESPONSIBLE AGENCY: MFSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
H1	7,9,14,37,44	M		EXT TO MSFC FOR DIST.
B2	7	M	1	EXT TO GRC VIA HOSC

COMM CONTACT: MSFC/SCOTT SCHUTZENHOFER/256 544-8496

NOTE 1: MSFC WILL EXTEND CIRCUIT TO GRC IN SUPPORT OF MMT CONTINGENCY SIMS AND FOR STS LAUNCH AND FLIGHT SUPPORT. VOICE LOOP WILL BE CONFIGURED ON EXISTING CIRCUITS FROM L-24 HOURS THROUGH EOM FOR SHUTTLE SUPPORT.

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544- 5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/14/06

[PRD] DATABASE RECORD: 187451 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/16/95
INITIAL DATE: 10/18/90
ITEM NUMBER: E47.2E DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 10:18:34

REQUESTER: ER

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 187451
ITEM NUMBER: E47.2E

SUBREQUESTER: KSC/PH-L
TEST CODE: CKT41 STSALL

ASSOCIATED DOC: 20007S 20014S 20017S 20037S
TRACKING NO. COMREV05 KING2001 L2727 L2961 L3840
MK98 R26201 R3114 R3624
PRIORITY: MANDATORY
RATIONALE: CRITICAL, DEDICATED AND PROTECTED. REFERENCE OIS-232 AND NTD TO SRO HOT DIAL.

1. DESCRIPTION: AIR-TO-GROUND-1 (A/G-1) OIS-212 (L-5 HOURS)

RESPONSIBLE AGENCY: ER

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,14	T	1	CCAFS ROCC, SRO CONSOLE
K2	7	T	1	CCAFS ROCC, FCO CONSOLE
K3	7,14,17,37	T	1	LWOC, CAPE WEATHER
K4	7,14	T	1	CCAFS ROCC, LRCO CONSOLE
K5	7,14	T	1,2	CCAFS ROCC, ISRO CONSOLE

PRIME: KSC/PH-L/JEFF SPAULDING/321 861-9306

POC: ER/MIKE GAWEL/321 853-8118
COMM. CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

NOTE 1: CIRCUIT TO BE DESIGNATED "CRITICAL, DEDICATED AND PROTECTED". SPECIAL EFFORT IS TO BE MADE TO VERIFY THAT ONLY KSC AUTHORIZED TALK DROPS ARE INSTALLED.

NOTE 2: THIS CONSOLE IS BACKUP TO THE SRO CONSOLE.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/16/95
RESPONSE TRACKING: Z26113 Z2746 Z29111 Z3110 Z3621

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 187451
ITEM NUMBER: E47.2E

Z3861

[PRD] DATABASE RECORD: 196195 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/30/04
INITIAL DATE: 04/12/91
ITEM NUMBER: KGT48K DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 10:21:36

REQUESTER: KSC GSFC JSC
SUBREQUESTER: FR2 I-MIL KSC/MK-SIO KSC/PH-L
OMR1/3/4 OSR1/3/4
TEST CODE: CKT42 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20009S 20014S 20017S
20037S 20044S
TRACKING NO. COMREV05 DB98 KING2001 L04-1-2 L2608
L3916 R0401-2 R109-89 R2827 R8305
PRIORITY: MANDATORY
RATIONALE: MANDATORY PER LAUNCH COMMIT CRITERIA.

1. DESCRIPTION: AIR-TO-GROUND-2 (A/G-2) OIS-213

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17, 37,44	T		CDSC FOR DIST
K2	7,9	T		CDSC FOR EXT TO MIL
T3	7,14,17,37, 44	T		CDSC FOR EXT TO JSC/MCC DIRECT LINE
				OSR1/3/4
Y4		M		ALL POS REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257
				OMR1/3/4
Y5		M		ALL POS REF SEC 3020

CONTINUED

[PRD] DATABASE RECORD: 196195
ITEM NUMBER: KGT48K

ITEM DHKTY1.1.2K, DBR 024268

FR2
- - - - - - - - - - - - -
T6 ALL JSC CONS REF SEC 3020
ITEM T44.1K, DBR 024313

H7 ALL MSFC CONS REF SEC 3020
ITEM H46.1K, DBR 024286

PRIME: KSC/PH-L/JEFF SPAULDING/321 861-9306

TECH CONTACT: KSC/DEBBIE AWTONOMOW/321 861-3972
COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/30/04
RESPONSE TRACKING: Z2816 Z3953 Z8306

[PRD] DATABASE RECORD: 194633 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/30/04
INITIAL DATE: 05/25/88
ITEM NUMBER: GK48.1GK DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:17

REQUESTER: GSFC KSC
SUBREQUESTER: KSC/PH-L
TEST CODE: CKT42 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20009S 20014S 20017S
20037S 20044S
TRACKING NO. COMREV05 DB98 GSFCREV06 KING2001 L04-01-2
L2608 R0401-2 R8305
PRIORITY: MANDATORY
RATIONALE: MANDATORY PER LAUNCH COMMIT CRITERIA.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 194633
ITEM NUMBER: GK48.1GK

1. DESCRIPTION: AIR-TO-GROUND-2 (A/G-2) OIS-213

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,9	T		MILA OPS SUPERVISOR
T2	7,14,17,37, 44	T		MILA/KSC CDSC EXT TO JSC/MCC VIA GSFC

PRIME: KSC/PH-L/JEFF SPAULDING/321 861-9306

TECHNICAL CONTACT: MILA/MELISSA BLIZZARD/321 861-1068
COMM CONTACT: GSFC/AL DUANY/301 286-2721
KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/10/04
RESPONSE TRACKING: Z0402-1 Z26109 Z8306

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/30/04

[PRD] DATABASE RECORD: 586557 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/22/06
INITIAL DATE: 03/23/06
ITEM NUMBER: THX48.1.1T DATE LAST CHANGED: 09/14/06
SECTION: 2750 TIME LAST CHANGED: 07:50:30

REQUESTER: JSC MSFC DFRC
TEST CODE: STSALL SUPSIM

ASSOCIATED DOC: 20007S 20009S 20014S 20017S

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 586557
ITEM NUMBER: THX48.1.1T

	20037S	20044S	
TRACKING NO.	COMREV05	L06-6-1	LSR06-6-3

1. DESCRIPTION: AIR TO GROUND-2 (A/G-2) OIS-213

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,9,14,37,44	M		MCC FOR DISTRIBUTION
T2	7,9,14,37,44	T		EXT TO FLIGHT DIRECTOR CONSOLE.
T3	7,9,14,37,44	T		EXT TO CAPCOM CONSOLE
T4	7,9,14,37,44	M		EXT TO MSFC
T5	7,9,14,37,44	M	1	EXT TO DFRC

COMM CONTACT: JSC/DV/KEN JONES/281 483-7671

NOTE 1: COMPOSITE OF A/G 1 & 2.

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/22/06

[PRD] DATABASE RECORD: 589298 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/14/06
INITIAL DATE: 09/14/06
ITEM NUMBER: HB48.1.1.1H DATE LAST CHANGED: 09/14/06
SECTION: 2750 TIME LAST CHANGED: 09:03:21

REQUESTER: MSFC GRC
TEST CODE: MMT

ASSOCIATED DOC: 20007S
TRACKING NO. L06-8-3 R0609-3

1. DESCRIPTION: AIR TO GROUND-2 (A/G-2) OIS-213

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 589298
ITEM NUMBER: HB48.1.1.1H

RESPONSIBLE AGENCY: MFSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
H1	7,9,14,37,44	M		EXT TO MSFC FOR DIST.
B2	7	M	1	EXT TO GRC VIA HOSC

COMM CONTACT: MSFC/SCOTT SCHUTZENHOFER/256 544-8496

NOTE 1: MSFC WILL EXTEND CIRCUIT TO GRC IN SUPPORT OF MMT CONTINGENCY SIMS AND FOR STS LAUNCH AND FLIGHT SUPPORT. VOICE LOOP WILL BE CONFIGURED ON EXISTING CIRCUITS FROM L-24 HOURS THROUGH EOM FOR SHUTTLE SUPPORT.

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/14/06

[PRD] DATABASE RECORD: 229780
DOCUMENT ID: LLS
ITEM NUMBER: KT49K
SECTION: 2750

REQUIREMENT STATUS: APPROVED
APPROVAL DATE: 01/30/04
INITIAL DATE: 04/12/91
DATE LAST CHANGED: 04/26/06
TIME LAST CHANGED: 13:10:01

REQUESTER:	KSC	JSC			
SUBREQUESTER:	FR2	I-MIL	KSC/MK-SIO	KSC/PH-L	
	OMR1/3/4	OSR1/3/4			
TEST CODE:	CKT43	S61C04	STSALL	SUPSIM	

ASSOCIATED DOC:	20007S	20014S	20017S		
TRACKING NO.	COMREV05	DB98	KING2001	L04-1-2	L2604
	L310-3	L3806	L3916	L4625	L5216
	R0401-2	R109-89	R26152	R26182	R26185

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 229780
ITEM NUMBER: KT49K

R2658 R2809 R6101 R8305
PRIORITY: MANDATORY
RATIONALE: MANDATORY PER LAUNCH COMMIT CRITERIA.

1. DESCRIPTION: INTERCOMM-A OIS-214

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,14,17	T		CDSC FOR DIST.
K2	7,14,17	T		CDSC FOR EXT. TO MIL, OPS SUPERVISOR
T3	7,14,17	T		CDSC FOR EXT. TO JSC/MCC
				OSR1/3/4
Y4		M		ALL POS REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257
				OMR1/3/4
Y5		M		ALL POS REF SEC 3020 ITEM DHKTY1.1.2K, DBR 024268
				FR2
H6				ALL MSFC CONS REF SEC 3020 ITEM H46.1K DBR 024286

PRIME: KSC/PH-L/JEFF SPAULDING/321 861-9306

TECHNICAL CONTACT: KSC/SK/PAT LAMPTON/321 861-4004
COMM. CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/30/04

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 229780
ITEM NUMBER: KT49K

RESPONSE TRACKING: Z2672 Z2679 Z3819 Z3953 Z4634
Z5217 Z6101

[PRD] DATABASE RECORD: 362274 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/30/04
INITIAL DATE: 01/30/04
ITEM NUMBER: GK49.1GK DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:25

REQUESTER: GSFC KSC
SUBREQUESTER: JSC KSC/PH-L
TEST CODE: CKT43 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S
TRACKING NO. COMREV05 DB98 GSFCREV06 KING2001 L04-1-2
L210-1 L2608 L3806 L5309 R0401-2
R8305
PRIORITY: MANDATORY
RATIONALE: MANDATORY PER LAUNCH COMMIT CRITERIA.

1. DESCRIPTION: INTERCOMM-A OIS-214

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,14,17	T		MILA, OPS SUPERVISOR
T2	7,14,17	T		MILA EXT TO JSC/MCC VIA KSC/CDSC

PRIME: KSC/PH-L/JEFF SPAULDING/321 861-9306

TECHNICAL CONTACT: MILA/MELISSA BLIZZARD/321 867-1098
COMM CONTACT: GSFC/AL DUANY/301 286-2721
KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/10/04

CONTINUED

[PRD] DATABASE RECORD: 362274
ITEM NUMBER: GK49.1GK

RESPONSE TRACKING: Z0402-1 Z2675 Z3819 Z5310 Z8306

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/30/04

[PRD] DATABASE RECORD: 363444 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/30/04
INITIAL DATE: 01/30/04
ITEM NUMBER: T49.1.1T DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 13:11:35

REQUESTER: JSC
TEST CODE: CKT43 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S
TRACKING NO. COMREV05 KING2001 L04-1-2 L2604 L3806
L5216 R0401-2 R109-89 R26152 R2809
R8305

1. DESCRIPTION: INTERCOMM-A OIS-214

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17	T		MCC FOR DISTRIBUTION

COMM CONTACT: JSC/DV/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/30/04
RESPONSE TRACKING: Z0401-3 Z2697 Z3819 Z5217 Z8306

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 240414 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/28/02
INITIAL DATE: 07/03/90
ITEM NUMBER: KGT50GK DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:20

REQUESTER:	KSC	GSFC	JSC	
SUBREQUESTER:	FR2	I-MIL	KSC/MK-SIO	KSC/PH-L
	OMR1/3/4	OSR1/3/4		
TEST CODE:	CKT44	S61C04	STSALL	SUPSIM

ASSOCIATED DOC:	20007S	20014S	20017S	20026S	
TRACKING NO.	COMREV05	DB98	GSFCREV06	KING2001	L03-8-2
	L2604	L3806	L3916	L5216	R109-89
	R26152	R26182	R26185	R2658	R2809
	R8305	RTF114-6			

PRIORITY: REQUIRED
RATIONALE: BACKUP TO INTERCOMM-A.

1. DESCRIPTION: INTERCOMM-B OIS-215

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,14,17,26	T		CDSC FOR DIST.
K2	7,14,17,26	T		CDSC FOR EXT. TO MILA
K3	7,14,17,26	T		MILA OPS SUPERVISOR
T4	7,14,17, 26	T		CDSC FOR EXT. TO JSC
				OSR1/3/4
Y5		M		ALL POS REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257
				OMR1/3/4
Y6		M		ALL POS REF SEC 3020 ITEM DHKTY1.1.2K, DBR 024268
				FR2

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 240414
ITEM NUMBER: KGT50GK

- - - - - - - - - - - - -

H7 ALL MSFC CONS REF SEC 3020
ITEM H46.1K, DBR 024286

PRIME: KSC/PH-L/JEFF SPAULDING/321 861-9306

COMM CONTACT: KSC/IT-D2-A/MONIQUE MCLAMB/321 867-8540

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/17/02
RESPONSE TRACKING: Z107-7

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/28/02
RESPONSE TRACKING: Z2672 Z2679 Z3819 Z3953 Z5217
Z8306

[PRD] DATABASE RECORD: 190994 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/19/06
INITIAL DATE: 07/03/90
ITEM NUMBER: GK50.1GK DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:17

REQUESTER: GSFC KSC
SUBREQUESTER: KSC/PH-L
TEST CODE: CKT44 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S 20026S
TRACKING NO. COMREV05 DB98 GSFCREV06 KING2001 L2608
L3806 R2809 R8305
PRIORITY: REQUIRED
RATIONALE: BACKUP TO INTERCOMM-A

1. DESCRIPTION: INTERCOMM-B OIS-215

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 190994
ITEM NUMBER: GK50.1GK

RESPONSIBLE AGENCY: GSFC

REF	TEST CODE	CAP	NOTE	TERMINATION LOCATION
K1	7,14,17, 26	T		MILA, OPS. SUPERVISOR

TECH CONTACT: MILA/MELISSA BLIZZARD/321 867-1068
COMM CONTACT: GSFC/AL DUANY/301 286-2721
KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 286-4286

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/19/06
RESPONSE TRACKING: Z0505-3 Z2675 Z3819 Z8306

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/19/06

[PRD] DATABASE RECORD: 356481 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/19/97
INITIAL DATE: 05/17/88
ITEM NUMBER: TX50.2T DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 13:15:33

REQUESTER: JSC DFRC
SUBREQUESTER: KSC/PH-L
TEST CODE: CKT44 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S 20026S
TRACKING NO. COMREV05 DB98 KING2001 L03-8-2 L2604
L5216 R26152 R2809 R8305 RTF114-6
PRIORITY: REQUIRED
RATIONALE: BACKUP TO INTERCOMM-A.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 356481
ITEM NUMBER: TX50.2T

1. DESCRIPTION: INTERCOMM-B OIS-215

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17	T		MCC FOR DISTRIBUTION
K2	7,26	T		EXT TO DFRC

COMM CONTACT: JSC/DV/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/19/97
RESPONSE TRACKING: Z2697 Z5217 Z8306

[PRD] DATABASE RECORD: 355085 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/13/03
INITIAL DATE: 10/28/88
ITEM NUMBER: X50.2.1X DATE LAST CHANGED: 03/20/07
SECTION: 2750 TIME LAST CHANGED: 08:35:52

REQUESTER: DFRC
SUBREQUESTER: KSC/PH-L
TEST CODE: CKT44 EAFB STSALL

ASSOCIATED DOC: 20007S 20026S
TRACKING NO. COMREV05 DB98 KING2001 L03-8-2 L2740
R109-89 R26152 RTF114-6
PRIORITY: REQUIRED
RATIONALE: BACKUP TO INTERCOMM-A.

1. DESCRIPTION: INTERCOMM-B OIS-215

RESPONSIBLE AGENCY: DFRC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION

CONTINUED

[PRD] DATABASE RECORD: 355085
ITEM NUMBER: X50.2.1X

K1	7,26	T	1	SPA OIS-09

NOTE 1: SEE LLS2700, ITEM K50X, DBR 220438 AND ITEM K51GTX, DBR 208463, FOR TIMES CIRCUIT IS ESTABLISHED AND RELEASED.

POC: DFRC/GEORGE GRIMSHAW/661 276-3425

TECHNICAL CONTACT: KSC/PH-L/DEAN SCHAAF/321 861-9311
KSC/USK-426/MIKE KUTA/321 861-3980

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/13/03
RESPONSE TRACKING: Z2936

[PRD] DATABASE RECORD: 18152 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/18/05
INITIAL DATE: 03/21/89
ITEM NUMBER: KT51K DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 07:38:24

REQUESTER: KSC JSC
SUBREQUESTER: ESA FR2 KSC/MK-SIO OSR1/3/4
TEST CODE: CKT204 STSALL

ASSOCIATED DOC: 20007S 20014S 20017S
TRACKING NO. A106-1 A5503 COMREV05 L04-2-1 L05-2-8
L4524 L4920 R0402-1 R0502-9 R3009
R8307

1. DESCRIPTION: BOEING COORD OIS-216

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION

CONTINUED

[PRD] DATABASE RECORD: 18152
ITEM NUMBER: KT51K

T1	7,14,17	T	CDSC FOR DISTRIBUTION
T2	7,14,17	T	EXTENSION TO JSC/MER
			OSR1/3/4
			- - - - - - -
T3	7,14,17	T	BOEING POS A11
			FR2
			- - - - - - - - -
T4	7,14,17	T	BOEING CONSOLE 0215A4
T5	7,14,17	T	BOEING CONSOLE 0232A1
T6	7,14,17	T	BOEING CONSOLE 0232A8
T7	7,14,17	T	BOEING CONSOLE 0246A8
T8	7,14,17	T	BOEING CONSOLE 0256A4
			LCC ESA 3R18
			- - - - - - - - - - -
T9	7,14,17	T	BOEING BETWEEN CONS A42 AND A5

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/23/05
RESPONSE TRACKING: Z0502-3 Z3012 Z4538 Z4916 Z8309

[PRD] DATABASE RECORD: 18151 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/18/05
INITIAL DATE: 03/21/89
ITEM NUMBER: T51.1T DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 13:18:58

REQUESTER: JSC
SUBREQUESTER: JSC/B-NS MER
TEST CODE: CKT204 STSALL

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 18151
ITEM NUMBER: T51.1T

ASSOCIATED DOC: 20007S 20014S 20017S
TRACKING NO. A106-1 COMREV05 L04-2-1 L05-2-8 L4920
L704-1 L8401 R0402-1 R0502-9 R3009
R8307 R8403

1. DESCRIPTION: BOEING COORD OIS-216

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17	T		JSC MCC FOR DIST TO MER
T2	7,14,17	T		EXT TO B-NS/HOU TOWER II

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/18/05
RESPONSE TRACKING: Z0402-2 Z3012 Z4916 Z8309 Z8403
Z8408

[PRD] DATABASE RECORD: 524248 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/04/04
INITIAL DATE: 09/20/93
ITEM NUMBER: GK54G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:27

REQUESTER: GSFC KSC
SUBREQUESTER: KSC/PH-L
TEST CODE: CKT47 STSALL

ASSOCIATED DOC: 20007S 20014S 20017S 20026S
20027S 20028S
TRACKING NO. COMREV05 DB98 GSFCREV06 KING2001 L04-1-2
L04-5-3 L5803 R0401-2 R0406-1 R109-89
R8305

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 524248
ITEM NUMBER: GK54G

PRIORITY: REQUIRED
RATIONALE: MONITOR ONLY

1. DESCRIPTION: GSFC GCN-3 OIS-219

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,14, 17,26,27, 28	M	1,2	MILA FOR EXTENSION TO KSC

PRIME: KSC/PH-L/TED MOSTELLER/321 861-9307

TECHNICAL CONTACT: MILA/MELISSA BLIZZARD/321 867-1068
COMM CONTACT: GSFC/AL DUANY/301 286-2721
KSC/MONIQUE MCLAMB/321 867-8540

NOTE 1: MONITOR ONLY OF NETWORK A/G-2 (V-2) CIRCUIT.

NOTE 2: MONITOR ONLY FROM L-24 HOURS THRU CREW EGRESS.

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/12/05
RESPONSE TRACKING: Z0402-1 Z0505-3 Z5816 Z8306

[PRD] DATABASE RECORD: 20631 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/05/02
INITIAL DATE: 04/12/91
ITEM NUMBER: K55K DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 13:25:30

REQUESTER: KSC
SUBREQUESTER: KSC/MK-SIO KSC/SA-B1 OMR1/3/4 OSR1/3/4
TEST CODE: CKT47 STSALL

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 20631
ITEM NUMBER: K55K

ASSOCIATED DOC: 20007S 20014S 20017S
TRACKING NO. COMREV05 DB98 KING2001 L3614 L3629
L3916 R107-3
PRIORITY: REQUIRED
RATIONALE: BACKUP - ALTERNATE OIS CHANNELS OR BLACK PHONE.

1. DESCRIPTION: SAFETY NET OIS-221

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,14,17	T		CDSC FOR DIST
				OSR1/3/4
Y2				ALL POS REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257
				OMR1/3/4
Y3				ALL POS REF SEC 3020 ITEM DHKTY1.1.2K, DBR 024268

POC: KSC/SA-B1/DAVE RAINER/321 861-9320

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/17/02
RESPONSE TRACKING: Z107-9 Z3953

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 194693 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/25/00
INITIAL DATE: 04/12/91
ITEM NUMBER: K56K DATE LAST CHANGED: 01/11/07
SECTION: 2750 TIME LAST CHANGED: 12:33:05

REQUESTER: KSC
SUBREQUESTER: ESA FR2 JSC KSC/MK-SIO
KSC/NE-M7 MS101 MSFC NASA HQ
OMR1/3/4 OSR1/3/4
TEST CODE: CKT48 STSALL

ASSOCIATED DOC: 20007S 20014S 20017S 20037S
20044S
TRACKING NO. COMREV05 KING2001 L3856 L3916 L9201
R109-89 R2827 R3114 R4212
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: ET ICE - OIS 222

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,14,17, 37,44	T		CDSC FOR DIST
				OSR 1/3/4
Y2				ALL POS REF SECTION 3020 ITEM HKTY1.1.1K, DBR 024257
				OMR 1/3/4
Y3				ALL POS REF SECTION 3020 ITEM DHKTY1.1.2K, DBR 024268
				FR2
T4				ALL JSC CONS REF SECTION 3020 ITEM T44.1K, DBR 024313

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 194693
ITEM NUMBER: K56K

H5 ALL MSFC CONS REF SECTION 3020
ITEM H46.1K, DBR 024286

LCC ESA RM 3R18
- - - - - - - - - - - - - -

T6 ALL JSC CONS REF SECTION 3020
ITEM T66.1K, DBR 517193

POC: KSC/TOM FORDF/321 861-3635

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/25/00
RESPONSE TRACKING: Z2816 Z3110 Z3882 Z3953 Z4217
Z9301

[PRD] DATABASE RECORD: 194382 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/16/03
INITIAL DATE: 04/12/91
ITEM NUMBER: KEHT57K DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 07:41:08

REQUESTER: KSC ER MSFC
JSC
SUBREQUESTER: ESA FR2 I-PH-B KSC/MK-SIO
KSC/PH-L KSC/TA-C KSC/TA-E OMR1/3/4
OSR1/3/4
TEST CODE: CKT49 S61C04 S61E16 STSALL
STSR38 SUPSIM WX

ASSOCIATED DOC: 20007S 20008S 20009S 20014S
20017S 20026S 20027S 20028S
20037S 20044S 25009S 25214A

CONTINUED

[PRD] DATABASE RECORD: 194382
ITEM NUMBER: KEHT57K

	25217A				
TRACKING NO.	A5501	COMREV05	DB98	KING2001	L03-12-2
	L2604	L2613	L3610	L3621	L3624
	L3840	L3856	L3916	M34007	R0312-4
	R109-89	R26185	R26263	R2658	R2715
	R2725	R3114	R4212		

PRIORITY: REQUIRED
RATIONALE: BACKUP - OIS 131 OR BLACK PHONE.

1. DESCRIPTION: WEATHER & TROUBLESHOOTING OIS-231

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17,37, 44,25009	T		CDSC FOR DISTRIBUTION
K2	7,14,17,26, 27,28,37,44, 25009,25214, 25217	T		CDSC FOR EXT. TO CCAFS
T3	7,37,44	T		CDSC FOR EXT. TO JSC
T4	7	T		LACB CONSOLE
H5	7,8,9,14,17	M		CDSC FOR SWITCHING TO MSFC
				OSR1/3/4
Y6				ALL POS REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257
				OMR1/3/4
Y7				ALL POS REF SEC 3020 ITEM DHKTY1.1.2K, DBR 024268
				FR2
T8				ALL JSC CONS REF SEC 3020 ITEM T44.1K, DBR 024313

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 194382
ITEM NUMBER: KEHT57K

H9 ALL MSFC CONS REF SEC 3020
ITEM H46.1K, DBR 024286

LCC ESA RM 3R18
- - - - - - - - - - - -

T10 ALL JSC CONS REF SEC 3020
ITEM T66.1K, DBR 517193

POC: KSC/PH-L/TED MOSTELLER/321 861-9306

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/16/03
RESPONSE TRACKING: Z26191 Z2679 Z2687 Z2711 Z2908
Z3106 Z3110 Z3621 Z3861 Z3882
Z3953 Z4217

[PRD] DATABASE RECORD: 198421 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/21/98
INITIAL DATE: 10/18/90
ITEM NUMBER: E57.1E DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 07:41:43

REQUESTER: ER
SUBREQUESTER: I-PH-B KSC/PH-L KSC/TA-C KSC/TA-E
TEST CODE: CKT49 STSALL SUPSIM WX

ASSOCIATED DOC: 20007S 20014S 20017S 20026S
20027S 20028S 20037S 20044S
25009S 25214A 25217A
TRACKING NO. COMREV05 KING2001 L2607 L3610 L3806
L3840 L9503 MK98 R109-89 R26209
R2809 R3443 R4218 SHAW95
PRIORITY: REQUIRED

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 198421
ITEM NUMBER: E57.1E

RATIONALE: BACKUP - OIS 131 AND BLACK PHONE.

1. DESCRIPTION: WEATHER & TROUBLESHOOTING OIS-231 (L-3 DAYS)

RESPONSIBLE AGENCY: ER

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,14,17,37, 25009,44, 25214,25217	T		CCAFS, ROCC, RWO
K2	7,14,17	M		CCAFS, ROCC, NASA MGMT CONSOLES
K3	7,26,27,28	M		CCAFS, LRCC, NASA PROJ. CONSOLE
K4	7,26,27,28	M		CCAFS, ROCC, EEC
K6	7	M		CCAFS, ROCC, NASA RANGE SAFETY REP CON

POC: ER/BILL HAASE/321 853-9167

TECH CONTACT: ER/MIKE GAWEL/321 853-8118
COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/26/98
RESPONSE TRACKING: Z26142 Z2676 Z3428 Z3819 Z3861
Z4225 Z6923 Z9511

[PRD] DATABASE RECORD: 200717 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/16/03
INITIAL DATE: 10/18/90
ITEM NUMBER: T57.2T DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 07:42:10

CONTINUED

[PRD] DATABASE RECORD: 200717
ITEM NUMBER: T57.2T

REQUESTER: JSC
SUBREQUESTER: I-PH-B
TEST CODE: CKT49 STSALL SUPSIM WX

ASSOCIATED DOC: 20007S 20037S 20044S
TRACKING NO. COMREV05 KING2001 L03-12-2 L2604 L3840
R0312-4 R109-89

1. DESCRIPTION: WEATHER & TROUBLESHOOTING OIS-231

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,37,44	T		MCC FOR DISTRIBUTION

COMM CONTACT: JSC/DV/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/16/03
RESPONSE TRACKING: Z0312-5 Z3861

[PRD] DATABASE RECORD: 213316 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/06/01
INITIAL DATE: 11/05/01
ITEM NUMBER: H57.3H DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 07:42:48

REQUESTER: MSFC
TEST CODE: CKT49 S61E16 STSALL WX

ASSOCIATED DOC: 20007S 20008S 20009S 20014S
20017S
TRACKING NO. COMREV05 KING2001 R109-1

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 213316
ITEM NUMBER: H57.3H

PRIORITY: REQUIRED
RATIONALE: STS VOICE LOOPS REQUIRED FOR COGNIZANT ENGINEER AT MSFC AND AT REMOTE LOCATIONS TO MONITOR THE PROGRESS OF SHUTTLE TESTING AND LAUNCH SUPPORT.

1. DESCRIPTION: WEATHER & TROUBLESHOOTING OIS-231

RESPONSIBLE AGENCY: MSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
H1	7,8,9,14,17	M		HOSC FOR DISTRIBUTION

POC: PHILIP CAUTHEN/EO60/256-544-4204
COMM CONTACT: SCOTT SCHUTZENHOFER/MP71/256-544-8496

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/06/01
RESPONSE TRACKING: Z109-1

[PRD] DATABASE RECORD: 201734 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/09/06
INITIAL DATE: 04/12/91
ITEM NUMBER: KEHT58K DATE LAST CHANGED: 11/09/06
SECTION: 2750 TIME LAST CHANGED: 10:44:20

REQUESTER:	KSC	ER		MSFC
	JSC			
SUBREQUESTER:	ESA	FR2	I-MIL	KSC-IT-D
	KSC/MK-SIO	KSC/PH-L	KSC/TA-E	OMR1/3/4
	OSR1/3/4	SOC		
TEST CODE:	CKT50	S61C04	S61E16	STSALL
	SUPSIM			
ASSOCIATED DOC:	20007S	20008S	20009S	20014S
	20017S	20037S	20044S	25009S
TRACKING NO.	A5501	COMREV05	DB98	KING2001 L203-8A

CONTINUED

[PRD] DATABASE RECORD: 201734
ITEM NUMBER: KEHT58K

L2604	L3534	L3624	L3806	L3840
L3856	L3916	L4524	L5216	L5329
ML012-90	R0611-2	R107-5	R109-89	R26157
R26185	R26263	R2658	R3114	R4212
R8306	RSRR136			

PRIORITY: MANDATORY
RATIONALE: CRITICAL, DEDICATED, AND PROTECTED, REFERENCE OIS-212 AND NTD TO SUPERVISOR RANGE OPERATIONS (SRO) HOTDIAL.

1. DESCRIPTION: NTD INTEGRATION - OIS 232

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
1	7,8,9,14, 17,37,44, 25009	T		CDSC FOR DISTRIBUTION
2	7,8,9,14,17 37,44	M		CDSC FOR SWITCHING TO MSFC
3	7,8,9,14, 17,25009,37	T		CDSC FOR EXT. TO ER
4	7,14, 17,37,44	T		CDSC FOR EXT. TO JSC
4.1	7,14,17 37,44	T		CDSC FOR EXT. TO MIL (GSFC)
5	7	T		CDSC FOR EXT. TO NDR SITE
				OSR3/4
6		M		ALL POS REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257
				OMR3/4
7		M		ALL POS REF SEC 3020 ITEM DHKTY1.1.2K, DBR 024268
				FR2

CONTINUED

[PRD] DATABASE RECORD: 201734
ITEM NUMBER: KEHT58K

- - - - - - - - - - - - -

8 ALL JSC CONS REF SEC 3020
ITEM T44.1K, DBR 024313

9 ALL MSFC CONS REF SEC 3020
ITEM H46.1K, DBR 024286

LCC ESA RM. 3R18
- - - - - - - - - - - - -

10 ALL JSC CONS REF SEC 3020
ITEM T66.1K, DBR 517193

PRIME: KSC/PH-L/JEFF SPAULDING/321 861-9306

COMM CONTACT: KSC/IT-D2-A/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/09/06
RESPONSE TRACKING: Z0310-1 Z26191 Z2679 Z3110 Z3536
Z3621 Z3819 Z3861 Z3882 Z3953
Z4217 Z4538 Z5217 Z5323 Z8307

[PRD] DATABASE RECORD: 219822 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/06/01
INITIAL DATE: 11/05/01
ITEM NUMBER: H58.1H DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 13:29:33

REQUESTER: MSFC
TEST CODE: CKT50 STSALL

ASSOCIATED DOC: 20007S 20008S 20009S 20014S
20017S 20037S 20044S
TRACKING NO. COMREV05 KING2001 R109-1
PRIORITY: REQUIRED
RATIONALE: STS VOICE LOOPS REQUIRED FOR COGNIZANT ENGINEER AT MSFC AND AT REMOTE LOCATIONS TO MONITOR THE PROGRESS OF SHUTTLE TESTING AND LAUNCH SUPPORT.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 219822
ITEM NUMBER: H58.1H

1. DESCRIPTION: NTD INTEGRATION - OIS 232

RESPONSIBLE AGENCY: MSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
H1	7,8,9,14,17 37,44	M		COMM BLDG. 4207 FOR DIST. TO HOSC

POC: PHILIP CAUTHEN/EO60/256-544-4204
COMM. CONTACT: SCOTT SCHUTZENHOFER/MP71/256-544-8496

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/06/01
RESPONSE TRACKING: Z109-1

[PRD] DATABASE RECORD: 221331 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/21/98
INITIAL DATE: 10/18/90
ITEM NUMBER: E58.2E DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 13:31:00

REQUESTER: ER
SUBREQUESTER: DDMS KSC/PH-L KSC/TA-E SOC
TEST CODE: CKT50 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20008S 20009S 20014S
20017S 20037S 25009S
TRACKING NO. COMREV05 KING2001 L2607 L3840 L4503
L9503 MK98 R109-89 R4218 SHAW95
PRIORITY: MANDATORY
RATIONALE: CRITICAL, DEDICATED, AND PROTECTED, REFERENCE OIS-212 AND NTD TO SUPERVISOR RANGE OPERATIONS (SRO) HOTDIAL.

1. DESCRIPTION: NTD INTEGRATION - OIS 232 (L-5 HOURS)

RESPONSIBLE AGENCY: ER

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 221331
ITEM NUMBER: E58.2E

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,8,9,14, 17,25009	T		CCAFS, ROCC, SRO CONSOLE
K2	7,17	T		CCAFS, ROCC, FCO CONSOLE
K3	7,14,17	M		CCAFS, ROCC, KSC NASA MGT. CONSOLES
K4	7	M		CCAFS, ROCC, NASA R/S REP CONS
K5	7	M		CCAFS, LRCC, NASA PROJ. CONSOLE
K6	7	M		CCAFS, ROCC, NASA EEC
K7	7	M		CCAFS, HGR. AF, RETRIEVAL OPS
D8	7	T		CCAFS, PAFB, DOD SOC
K9	7,8,9,14, 17,37,25009	T		CCAFS, ROCC, RWO WX CONSOLE

PRIME: KSC/PH-L/TED MOSTELLER/321 861-9307

POC: KSC/BILL HAASE/321 853-9167

TECH CONTACT: ER/MIKE GAWEL/321 853-8118
SRB RETRIEVAL OPS/JOSEPH CHAPUT/321 853-4032

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/26/98
RESPONSE TRACKING: Z2676 Z3861 Z4225 Z4518 Z6923
Z9511

[PRD] DATABASE RECORD: 231611 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/12/05
INITIAL DATE: 08/13/03
ITEM NUMBER: TG58.3T DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 13:32:21

REQUESTER: JSC GSFC
TEST CODE: CKT50 STSALL SUPSIM

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 231611
ITEM NUMBER: TG58.3T

ASSOCIATED DOC: 20007S 20014S 20017S 20037S 20044S
TRACKING NO. COMREV05 KING2001 L04-6-4 L2604 L3840 L4510 L5216 R0407-1 R0505-5 R107-5 R109-89 R8306

1. DESCRIPTION: NTD INTEGRATION - OIS 232

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14, 17,37,44	T		MCC FOR DISTRIBUTION
T2	7,14,17,37 44	T		EXT TO B-NS/HOU TOWER II
T3	7	M		EXT TO GSFC FOR DIST

COMM CONTACT: JSC/DV/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/12/05
RESPONSE TRACKING: Z0407-1 Z107-6 Z3861 Z4526 Z5217 Z8307

[PRD] DATABASE RECORD: 232865 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/28/02
INITIAL DATE: 03/01/91
ITEM NUMBER: GY58.3.1G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:19

REQUESTER: GSFC NASA HQ
SUBREQUESTER: GSFC/542 GSFCR1 MS032
TEST CODE: CKT50 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20008S 20009S 20014S 20017S 20037S 20044S

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 232865
ITEM NUMBER: GY58.3.1G

TRACKING NO. COMREV05 GSFCREV06 KING2001 L2608 L2805
L3701 L3840 L4510 L5101 L5329
L710-2 L7507 L7601 R8306 R8702
RSRR136

1. DESCRIPTION: NTD INTEGRATION - OIS 232

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17 37,44	M		GSFC FOR DIST
G2	7,14,17, 37,44	T		MILA OPS CONSOLE
Y3	7	M		EXT TO NASA HQ FOR DIST

COMM CONTACT: GSFC/AL DUANY/301 286-2721
KSC/MONIQUE MCLAMB/321 867-8450

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/28/02
RESPONSE TRACKING: Z2675 Z2878 Z3861 Z39109 Z4545
Z5105 Z5323 Z7601 Z8307 Z8703

[PRD] DATABASE RECORD: 234166 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/09/05
INITIAL DATE: 05/25/88
ITEM NUMBER: KT59K DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 07:44:39

REQUESTER: KSC JSC
SUBREQUESTER: I-MIL KSC/IT-D2-A KSC/PH-I2
TEST CODE: CKT51 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S 20037S

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 234166
ITEM NUMBER: KT59K

	20044S				
TRACKING NO.	COMREV05	DB98	KING2001	L02-11-1	L03-12-2
	L04-5-3	L05-2-3	L113-3	L2608	R0312-4
	R0406-1	R0502-4	R107-3	R109-89	R8306

PRIORITY: REQUIRED
RATIONALE: BACKUP - ALTERNATE OIS CHANNELS OR BLACK PHONE.

1. DESCRIPTION: RPS OPS/MAIN - OIS-238

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,14,17, 37,44	T		CDSC FOR DIST.
K2	7,14,17	T		CDSC FOR EXT TO MIL
T3	7,14,17,44	T		CDSC FOR EXT. TO JSC

PRIME: KSC/PH-I2/DEBBIE AWTONOMOW/321 861-3972
TECHNICAL CONTACT: KSC/RPS TEST CONDUCTOR/321 861-0830
COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/21/05
RESPONSE TRACKING: Z0502-2 Z107-9 Z113-9 Z8307

[PRD] DATABASE RECORD: 235259 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/20/97
INITIAL DATE: 05/25/88
ITEM NUMBER: GK59.1G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:20

REQUESTER: GSFC KSC
SUBREQUESTER: KSC/IT-D2-A
TEST CODE: CKT51 STSALL SUPSIM

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 235259
ITEM NUMBER: GK59.1G

ASSOCIATED DOC: 20007S 20044S
TRACKING NO. COMREV05 DB98 GSFCREV06 KING2001 L2608
R8306
PRIORITY: REQUIRED
RATIONALE: BACKUP - ALTERNATE OIS CHANNELS OR BLACK PHONE.

1. DESCRIPTION: RPS OPS/MAIN - OIS-238

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,44	T		MILA, OPS SUPV. CONSOLE

TECH CONTACT: MILA/MELISSA BLIZZARD/321 867-1068

COMM CONTACT: GSFC/AL DUANY/301 286-2721
KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/20/97
RESPONSE TRACKING: Z26109 Z8307

[PRD] DATABASE RECORD: 556986 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/11/05
INITIAL DATE: 09/08/03
ITEM NUMBER: T59.2T DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 13:39:13

REQUESTER: JSC
SUBREQUESTER: KSC/PH-I
TEST CODE: CKT17 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S 20044S
TRACKING NO. COMREV05 KING2001 L02-11-2 L03-12-2 L04-5-3

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 556986
ITEM NUMBER: T59.2T

L05-2-3 L113-4 L9201 R0312-4 R0406-1
R0502-4

1. DESCRIPTION: RPS OPS/MAIN OIS-238

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17,44	T		MCC FOR DISTRIBUTION

COMM CONTACT: JSC/DV/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/11/05
RESPONSE TRACKING: Z0312-5 Z0406-1 Z113-8 Z9204

[PRD] DATABASE RECORD: 343625 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/20/97
INITIAL DATE: 04/12/91
ITEM NUMBER: HKT60K DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 13:40:15

REQUESTER:	MSFC	KSC	JSC	
SUBREQUESTER:	ESA	FR2	KSC/MK-SIO	MS101
	OMR1/3/4	OSR1/3/4		
TEST CODE:	CKT54	L41D26	S61C04	S61E16
	STSALL	STSR28	SUPSIM	

ASSOCIATED DOC:	20007S	20008S	20009S	20014S
	20017S	20037S	20044S	

TRACKING NO.	A5501	COMREV05	KING2001	L203-8A	L2604
	L3624	L3840	L3856	L3916	L4524
	L5714	R109-89	R26157	R26185	R26263
	R2658	R2715	R2809	R2879	R3114

CONTINUED

[PRD] DATABASE RECORD: 343625
ITEM NUMBER: HKT60K

R4212 R8306
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: ENGINEERING SUPPORT AREA OIS-245

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,14,17, 37,44	T		CDSC FOR DIST
T2	7,14,17, 26,37,44	T	1	CDSC FOR EXT. TO JSC
H3	7,8,9,14, 17,37,44	T		CDSC FOR EXT. TO MSFC
				OSR1/3/4
Y4				ALL POS REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257
				OMR1/3/4
Y5				ALL POS REF SEC 3020 ITEM DHKTY1.1.2K, DBR 024268
				FR2
T6				ALL JSC CONS REF SEC 3020 ITEM T44.1K, DBR 024313
H7				ALL MSFC CONS REF SEC 3020 ITEM H46.1K, DBR 024286
				LCC ESA RM. 3R18
T8				ALL JSC CONS REF SEC 3020 ITEM T66.1K, DBR 517193

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 343625
ITEM NUMBER: HKT60K

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

NOTE 1: SEE LLS2700, ITEM K51GTX, DBR 208463, FOR TIMES
CIRCUIT IS ESTABLISHED AND RELEASED TO DFRC.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/20/97
RESPONSE TRACKING: Z26191 Z2679 Z2711 Z2864 Z3110
Z3621 Z3861 Z3882 Z3953 Z4217
Z4538 Z5718 Z8307

[PRD] DATABASE RECORD: 353459 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/12/05
INITIAL DATE: 10/18/90
ITEM NUMBER: TX60.1T DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 13:41:32

REQUESTER: JSC DFRC
SUBREQUESTER: KSC/PH-I2 KSC/PH-L
TEST CODE: CKT54 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S 20026S
20037S 20044S
TRACKING NO. COMREV05 DB98 KING2001 L04-6-4 L2604
L3840 M002-9 R0407-1 R0505-7 R109-89
R2809 R3113 R8306
PRIORITY: REQUIRED
RATIONALE: BACKUP - ALTERNATE OIS CHANNELS OR BLACK PHONE.

1. DESCRIPTION: ENGINEERING SUPPORT AREA OIS-245

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17, 26,37,44	T		JSC, MCC FOR DISTRIBUTION

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 353459
ITEM NUMBER: TX60.1T

K2	26	T	EXT. TO DFRC
T3	7,14,17,26, 37,44	T	EXT TO B-NS/HOU TOWER II

NOTE 1: SEE LLS2700, ITEM K51GTX, DBR 208463, FOR TIMES CIRCUIT IS ESTABLISHED AND RELEASED.

COMM CONTACT: JSC/DV/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/12/05
RESPONSE TRACKING: Z0407-1 Z3124 Z3861 Z8307

[PRD] DATABASE RECORD: 356386 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/04/04
INITIAL DATE: 08/26/88
ITEM NUMBER: K60.1.1X DATE LAST CHANGED: 03/20/07
SECTION: 2750 TIME LAST CHANGED: 08:37:03

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L
TEST CODE: CKT54 EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. COMREV05 DB98 KING2001 L04-5-4 L2646
R0406-2 R109-89 R2809
PRIORITY: REQUIRED
RATIONALE: BACKUP - ALTERNATE OIS CHANNELS OR BLACK PHONE.

1. DESCRIPTION: ENGINEERING SUPPORT AREA OIS-245

RESPONSIBLE AGENCY: DFRC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 356386
ITEM NUMBER: K60.1.1X

K1	26	T	1	SPA OIS-10

NOTE 1: SEE LLS2700, ITEM K51GTX, DBR 208463, FOR TIMES CIRCUIT IS ESTABLISHED AND RELEASED.

PRIME: KSC/PH-L/DEAN SCHAAF/321 861-9311
TECHNICAL CONTACT: KSC/USK-426/MIKE KUTA/321 861-3890
DFRC/GEORGE GRIMSHAW/661 276-3425

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/04/04
RESPONSE TRACKING: Z26156

[PRD] DATABASE RECORD: 355109 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/05
INITIAL DATE: 10/18/90
ITEM NUMBER: HG60.2H DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 13:43:45

REQUESTER: MSFC GSFC
TEST CODE: CKT54 S61E16 STSALL STSR28
SUPSIM

ASSOCIATED DOC: 20007S 20008S 20009S 20014S
20017S 20026S 20037S 20044S
TRACKING NO. COMREV05 KING2001 L3840 L8501 M002-9
R0505-7 R109-89 R26157 R2809 R3113
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: ENGINEERING SUPPORT AREA OIS-245

RESPONSIBLE AGENCY: MSFC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 355109
ITEM NUMBER: HG60.2H

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
H1	7,8,9,14, 17,26,37, 44	T		MSFC, FOR DISTRIBUTION
H2	7,14	M		MSFC EXT MSFC/STS VOICE LOOPS TO REMOTE SITES (REF LLS 2750, H3.4.6GHKT, DBR# 539431 FOR LIST OF SITES)
G3	7, 14	M		EXT TO GSFC FOR DIST.

POC: PHILIP CAUTHEN/EO60/256 544-4204
COMM CONTACT: SCOTT SCHUTZENHOFER/256 544-8496

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/321 867-8540

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/18/05
RESPONSE TRACKING: Z3124 Z3861 Z8505

[PRD] DATABASE RECORD: 582737 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/12/05
INITIAL DATE: 05/12/05
ITEM NUMBER: GY60.2.1G DATE LAST CHANGED: 01/16/07
SECTION: 2750 TIME LAST CHANGED: 10:21:54

REQUESTER: GSFC NASA HQ
SUBREQUESTER: GSFC/731 GSFCR1
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 GSFCREV06 R0505-5 R0505-7

1. DESCRIPTION: ENGINEERING SUPPORT AREA OIS-245

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 582737
ITEM NUMBER: GY60.2.1G

G1	7	M	GSFC FOR DIST.
Y2	7	M	EXT TO NASA HQ SPACE OPS CENTER

COMM CONTACT: GSFC/AL DUANY/301 286-2721

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/12/05

[PRD] DATABASE RECORD: 205958 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/30/04
INITIAL DATE: 10/04/91
ITEM NUMBER: HKT61K DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 13:45:49

REQUESTER:	MSFC	KSC	JSC	
SUBREQUESTER:	ESA	FR2	JSC/B-NS	KSC/MK-SIO
	MS101	OMR1/3/4	OSR1/3/4	
TEST CODE:	CKT57	S61C04	S61E16	STSALL
	STSR28			

ASSOCIATED DOC:	20007S	20008S	20009S	20014S	
	20017S	20024S	20037S	20044S	
TRACKING NO.	A5501	COMREV05	KING2001	L04-1-2	L04-2-1
	L2613	L2940	L310-3	L3534	L3840
	L3844	L3856	L3916	L4615	L5329
	L5704	L6306	L6709	L901-13	L905-4
	L9201	R0401-2	R0402-1	R109-89	R26185
	R2658	R2725	R6101	R8306	RSRR128
	RSRR136				
PRIORITY:	REQUIRED				
RATIONALE:	MISSION SUPPORT				

1. DESCRIPTION: CRYO CONF OIS-261

CONTINUED

[PRD] DATABASE RECORD: 205958
ITEM NUMBER: HKT61K

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17, 37,44	T		CDSC FOR DIST
T2	7,8,9,14 17,37,44	T		CDSC FOR EXTENSION TO JSC MCC
H3	7,8,9,14, 17,24,37,44	T		CDSC FOR EXT TO MSFC
				OSR1/3/4
Y4				ALL POS REF SEC 3020, ITEM HKTY1.1.1K, DBR 024257
				OMR1/3/4
Y5				ALL POS REF SEC 3020, ITEM DHKTY1.1.2K, DBR 024268
				FR2
T6				ALL JSC CONS REF SEC 3020, ITEM T44.1K, DBR 024313
H7				ALL MSFC CONS REF SEC 3020, ITEM H46.1K, DBR 024286
				LCC ESA RM. 3R18
H8				ALL JSC CONS REF SEC 3020, ITEM T66.1K, DBR 517193

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

CONTINUED

[PRD] DATABASE RECORD: 205958
ITEM NUMBER: HKT61K

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/30/04

RESPONSE TRACKING:	Z2679	Z2687	Z2817	Z2873	Z2908
	Z29106	Z3124	Z3536	Z3861	Z3869
	Z3882	Z3953	Z4217	Z4417	Z4704
	Z4729	Z5110	Z5206	Z5323	Z5525
	Z5704	Z6101	Z6119	Z6208	Z6514
	Z6586	Z6706	Z8202	Z8307	Z9201

[PRD] DATABASE RECORD: 17679 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/30/04
INITIAL DATE: 09/04/91
ITEM NUMBER: T61.1T DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 13:46:14

REQUESTER: JSC
TEST CODE: CKT57 STSALL

ASSOCIATED DOC:	20007S	20008S	20009S	20014S	
	20017S	20037S	20044S		
TRACKING NO.	A106-1	COMREV05	KING2001	L03-12-2	L04-1-2
	L04-2-1	L109-1	L2817	L2940	L3844
	L4820	L5704	L905-4	L906-13	R0312-4
	R0401-2	R0402-1	R109-89	R2818	R8306

1. DESCRIPTION: CRYO CONFERENCE OIS-261

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,8,9,14, 17,37,44	T		MCC FOR DISTRIBUTION
T2	7	T		EXT TO B-NS/HOU TOWER II

COMM CONTACT: JSC/DV/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 17679
ITEM NUMBER: T61.1T

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/30/04
RESPONSE TRACKING: Z0312-5 Z0401-3 Z2808 Z2889 Z2985
Z3869 Z4824 Z5704 Z8307

[PRD] DATABASE RECORD: 211168 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/30/04
INITIAL DATE: 10/04/91
ITEM NUMBER: H61.2H DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 13:46:44

REQUESTER: MSFC
TEST CODE: CKT57 S61E16 STSALL

ASSOCIATED DOC: 20007S 20008S 20009S 20014S
20017S 20024S 20037S
TRACKING NO. A5501 KING2001 L04-1-2 L2818 L2843
L3534 L3806 L3840 L4723 L5329
L8501 M002-9 M2902 ML012-90 R0401-2
R109-89 R3113 R4419 RSR136
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: CRYO CONF. OIS-261

RESPONSIBLE AGENCY: MSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
H1	7,8,9,14,17,24,37	T		MSFC FOR DIST
H2	7,14	M		MSFC EXT MSFC/STS VOICE LOOPS TO REMOTE SITES (REF LLS 2750, H3.4.6GHKT, DBR# 539431 FOR LIST OF SITES)

POC: PHILIP CAUTHEN/EO60/256 544-4204
COMM CONTACT: SCOTT SCHUTZENHOFER/256 544-8496

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 211168
ITEM NUMBER: H61.2H

RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/10/04
RESPONSE TRACKING: Z0402-1 Z2808 Z28117 Z2873 Z3124
Z3536 Z3819 Z3861 Z4417 Z4727
Z5323 Z8505

[PRD] DATABASE RECORD: 11556 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/02/92
INITIAL DATE: 04/12/91
ITEM NUMBER: HK62K DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 13:47:30

REQUESTER: MSFC KSC
SUBREQUESTER: ESA FR2 KSC/MK-SIO MS101
OMR1/3/4 OSR1/3/4
TEST CODE: CKT58 S61C04 S61E16 STSALL
STSR28 SUPSIM

ASSOCIATED DOC: 20007S 20008S 20009S 20014S
20017S 20037S 20044S 25009S
TRACKING NO. A5501 COMREV05 KING2001 L3840 L3856
L3916 L4918 R109-89 R26157 R26185
R26263 R2658 R2715 R4212 RSRR116

1. DESCRIPTION: MSFC COORD - OIS-263

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17, 37,44	T		CDSC FOR DIST
H2	7,8,9,14,17 37,25009,44	T		CDSC FOR EXTENSION TO MSFC

	OSR1/3/4
Y3	ALL POS REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 11556
ITEM NUMBER: HK62K

	OMR1/3/4
Y4	ALL POS REF SEC 3020 ITEM DHKTY1.1.2K, DBR 024268

	FR2
T5	ALL JSC CONS REF SEC 3020 ITEM T44.1K, DBR 024313
H6	ALL MSFC CONS REF SEC 3020 ITEM H46.1K, DBR 024286

TECH CONTACT: MSFC RESIDENT OFC: SK/PAT LAMPTON/321 861-4004
COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/02/92
RESPONSE TRACKING: Z26191 Z2679 Z2711 Z3861 Z3882
Z3953 Z4217 Z4913

[PRD] DATABASE RECORD: 212133 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/09/90
INITIAL DATE: 03/09/90
ITEM NUMBER: H62.1H DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 13:47:54

REQUESTER: MSFC
TEST CODE: CKT58 S61E16 STSALL STSR28
SUPSIM

ASSOCIATED DOC: 20007S 20008S 20009S 20014S
20017S 20037S 20044S 25009S
TRACKING NO. COMREV05 KING2001 M002-9 R109-89 R26157
R3113
PRIORITY: REQUIRED

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 212133
ITEM NUMBER: H62.1H

RATIONALE: MISSION SUPPORT

1. DESCRIPTION: MSFC COORD OIS-263

RESPONSIBLE AGENCY: MSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
H1	7,8,9,14,17 37,25009,44	T		MSFC FOR DIST

POC: PHILIP CAUTHEN/EO60/256 544-4204
COMM CONTACT: SCOTT SCHUTZENHOFER/256F 544-8496

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/09/90
RESPONSE TRACKING: Z3124

[PRD] DATABASE RECORD: 226999 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/02/06
INITIAL DATE: 08/21/89
ITEM NUMBER: TGHX63T DATE LAST CHANGED: 11/15/06
SECTION: 2750 TIME LAST CHANGED: 13:19:58

REQUESTER: JSC GSFC MSFC
DFRC
TEST CODE: STSALL SUPSIM

ASSOCIATED DOC: 20007S 20017S 20026S 20027S
20028S

TRACKING NO.					
	A5502	COMREV05	KING2001	L04-2-2	L04-5-4
	L2604	L4924	L5216	NSG0906	R0402-3
	R0406-2	R2732	R2809	R3433	R8306

1. DESCRIPTION: AIR-TO-GROUND-1 (V-1) (GCN-1)

RESPONSIBLE AGENCY: JSC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 226999
ITEM NUMBER: TGHX63T

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
1	7,17, 26,27,28	M		MCC FOR DISTRIBUTION
2	7,17, 26,27,28	M		EXT TO GSFC
3	7,27	M		EXT TO DFRC
4	7,17,26 27,28	M		EXT TO MSFC

NOTE 1: CONFERENCE TOGETHER WITH AG-2 AT JSC/MCC.

COMM CONTACT: JSC/DV/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/02/06
RESPONSE TRACKING: Z0406-2 Z2758 Z3422 Z4921 Z5217 Z8307

[PRD] DATABASE RECORD: 228712 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/02/06
INITIAL DATE: 05/03/90
ITEM NUMBER: GKY63.1G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:14:15

REQUESTER: GSFC KSC NASA HQ
SUBREQUESTER: GSFC/542 JSC/MG KSC/PH-L
TEST CODE: STSALL SUPSIM WSSH

ASSOCIATED DOC: 20007S 20017S 20026S 20027S 20028S
TRACKING NO. A5501 COMREV05 DB98 GSFCREV06 KING2001
L04-2-2 L2604 L2678 L2830 L3516
L4924 L5216 NSG0906 R0402-3 R0501-1

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 228712
ITEM NUMBER: GKY63.1G

R2732 R2809 R3433 R6308 R8306
R9309
PRIORITY: MANDATORY
RATIONALE: MANDATROY PER LAUNCH COMMIT CRITERIA.

1. DESCRIPTION: AIR-TO-GROUND-1 (V-1) (GCN-1)

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
1	7,28	M		GSFC FOR LOCAL DISTRIBUTION
2	7,17 26,27,28	T		EXT TO KSC/CDSC
3	7,27	M		EXT TO WSC/WSSH/WSMR
4	7,26,27,28	M		EXT TO OAFS 21 SOPS/SMC DET 12
5	7	M		EXT TO NASA HQ

POC: GSFC/451.0/JAMES BANGERTER/301 286-7306

COMM CONTACT: GSFC/AL DUANY/301 286-2721

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/16/06
RESPONSE TRACKING: Z0501-1 Z2723 Z2732 Z28104 Z3422
Z3523 Z4921 Z5217 Z6310 Z8307
Z9311

[PRD] DATABASE RECORD: 330858 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/02/06
INITIAL DATE: 08/21/89
ITEM NUMBER: KEG63.1.1K DATE LAST CHANGED: 11/08/06
SECTION: 2750 TIME LAST CHANGED: 07:40:16

REQUESTER: KSC ER GSFC
SUBREQUESTER: I-MIL KSC/PH-L
TEST CODE: STSALL SUPSIM

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 330858
ITEM NUMBER: KEG63.1.1K

ASSOCIATED DOC: 20007S 20017S 20026S 20027S 20028S
TRACKING NO. COMREV05 DB98 KING2001 L04-2-2 L2604 L2919 L4924 L5216 NSG0906 R0402-3 R109-89 R2809 R3433 R8306
PRIORITY: MANDATORY
RATIONALE: MANDATORY PER LAUNCH COMMIT CRITERIA.

1. DESCRIPTION: AIR-TO-GROUND-1 (V-1) (GCN-1)

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
1	7,17,26, 27,28	T	1	CDSC FOR DIST
2	7,17,26,27,28	M	2	EXT TO CCAFS FOR DIST
3	7,26,27,28	M		EXT TO FLT CREW QTRS FOR CONF ROOM AND DIR FOD OFFICE
4	7,17,26,27 28	M		EXT TO MILA OPS SUPV

PRIME: KSC/PH-L/TED MOSTELLER/321 861-9307
COMM CONTACT: KSC/IT-D2-A/MONIQUE MCLAMB/321 867-8540

NOTE 1: COMMUNICATIONS VIA KSC-MILA ASTRO COMM/NETWORK.
NOTE 2: EXTENDED TO CCAFS FROM KSC VIA "GSFC GCN-1".

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/02/06
RESPONSE TRACKING: Z2967 Z3422 Z4921 Z5217 Z8307

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 298933 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/02/06
INITIAL DATE: 08/21/89
ITEM NUMBER: E63.1.1.1E DATE LAST CHANGED: 11/14/06
SECTION: 2750 TIME LAST CHANGED: 06:19:59

REQUESTER: ER
SUBREQUESTER: KSC/PH-L
TEST CODE: EAFB KSC STSALL WSSH

ASSOCIATED DOC: 20007S 20017S 20026S 20027S
20028S
TRACKING NO. KING2001 L04-2-2 L2830 L4924 L908-7
MK98 NSG0906 R0402-3 R109-89 R26184
R2809 R3433 RSRR8804
PRIORITY: REQUIRED
RATIONALE: INFORMATION ONLY, BACKUP DURING LAUNCH: GCN-2.

1. DESCRIPTION: AIR-TO-GROUND-1, (V-1) (GCN-1)
(L-5 HOURS)

RESPONSIBLE AGENCY: ER

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
1	7,17,26, 27,28	M	1	CCAFS X-Y BLDG. FOR DIST.
2	7,26	M		EAFB BUILDING 1440
3	7,26	M		EAFB TOWER
4	7,26	M		EAFB RADAR BLDG 4970
5	7,27	M		EXT TO WSSH OCC

POC: ER/MIKE GAWEL/321 853-8118

NOTE 1: EXTENDED TO CCAFS FROM KSC VIA "GSFC GCN-1"

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB ER WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/14/06

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 298933
ITEM NUMBER: E63.1.1.1E

RESPONSE TRACKING: Z26113 Z28104 Z3422 Z4921

[PRD] DATABASE RECORD: 16309 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/02/06
INITIAL DATE: 07/26/89
ITEM NUMBER: G63.1.2Z DATE LAST CHANGED: 12/18/06
SECTION: 2750 TIME LAST CHANGED: 11:43:08

REQUESTER: GSFC
SUBREQUESTER: JSC/MG KSC/PH-L
TEST CODE: S0027.001 STSALL WSSH

ASSOCIATED DOC: 20007S 20027S
TRACKING NO. A5501 COMREV05 DB98 KING2001 L04-2-2
L2678 L2830 L4924 NSG0906 R0402-3
R0501-1 R0504-8 R109-89
PRIORITY: MANDATORY
RATIONALE: MANDATORY PER LAUNCH COMMIT CRITERIA.

1. DESCRIPTION: AIR-TO-GROUND-1 (V-1) (GCN-1)

RESPONSIBLE AGENCY: WSTF

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
1	7,27	M		EXTEND TO WSSH OIS FOR DIST.

POC: WSTF/SCOTT SEILER/505 524-5124

TECH CONTACT: KSC/PH-L/LOU GARCIA/321 861-6196
KSC/USK-426/MIKE KUTA/321 861-3890

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/02/06
RESPONSE TRACKING: Z0504-5 Z2705 Z28104 Z4921

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 322939 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/02/06
INITIAL DATE: 02/09/89
ITEM NUMBER: X63.2X DATE LAST CHANGED: 03/20/07
SECTION: 2750 TIME LAST CHANGED: 08:38:08

REQUESTER: DFRC
SUBREQUESTER: ER JSC KSC KSC/PH-L
TEST CODE: EAFB STSALL SUPSIM

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
TRACKING NO. COMREV05 DB98 KING2001 L04-2-2 L2604
L2655 L2667 L2919 L2924 NSG0906
R0402-3 R109-89 R2809 R9309
PRIORITY: MANDATORY
RATIONALE: MANDATORY PER LAUNCH COMMIT CRITERIA.

1. DESCRIPTION: AIR-TO-GROUND-1 (V-1) (GCN-1)

RESPONSIBLE AGENCY: DFRC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
1	7,26	M	1	DCC FOR DISTRIBUTION
2	7,26	M		DFRC FOR DIST. TO ATR
3	7,26	M		B-4800, RM. 3018, KSC, GOM
4	7,26,27,28	M		DCC FOR DIST. TO EAFB
5	7,26	M		B-4800, RM. 3018, HQ LDG OPS REP
6	7,26	M		B-4800, RM. 3018, EMSS COORD.
7	7,26	M		B-4800, RM. 3018, OPS MGR.
8	7,26	M		EXT. TO ASTRO, VITT & VISITING PILOT'S TRAILERS
9	26	T		TPE IN FIRING ROOM

POC: DFRC/GEORGE GRIMSHAW/661 276-3425

TECH CONTACT: KSC/PH-L/DEAN SCHAAF/321 861-9301
KSC/USK-426/MIKE KUTA/321 861-3890

NOTE 1: REQUIRED UNTIL ORBITER ARRIVES AT THE DESERVICE AREA.

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 322939
ITEM NUMBER: X63.2X

SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/27/06
RESPONSE TRACKING: Z26201 Z26216 Z2967 Z2975 Z4921
Z9601

[PRD] DATABASE RECORD: 187006 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/03/06
INITIAL DATE: 11/05/01
ITEM NUMBER: H63.3H DATE LAST CHANGED: 11/15/06
SECTION: 2750 TIME LAST CHANGED: 06:29:50

REQUESTER: MSFC
TEST CODE: S61E16 STSALL

ASSOCIATED DOC: 20007S 20008S 20014S 20017S
20037S 20044S
TRACKING NO. COMREV05 KING2001 NSG0906 R109-1
PRIORITY: REQUIRED
RATIONALE: STS VOICE LOOPS REQUIRED FOR COGNIZANT ENGINEERS AT MSFC AND AT REMOTE LOCATIONS TO MONITOR THE PROGRESS OF SHUTTLE TESTING AND LAUNCH SUPPORT.

1. DESCRIPTION: AIR-TO-GROUND-1 (V-1) (GCN-1)

RESPONSIBLE AGENCY: MSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
H1	7,14,17, 37,44	M		HOSC FOR DISTRIBUTION

POC: PHILIP CAUTHEN/EO60/256-544-4204
COMM CONTACT: SCOTT SCHUTZENHOFER/MP71/256-544-8496

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/14/06

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 187006
ITEM NUMBER: H63.3H

RESPONSE TRACKING: Z109-1

[PRD] DATABASE RECORD: 333222 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/03/06
INITIAL DATE: 02/07/90
ITEM NUMBER: KT64K DATE LAST CHANGED: 11/08/06
SECTION: 2750 TIME LAST CHANGED: 10:02:00

REQUESTER: KSC JSC
SUBREQUESTER: KSC/PH-L
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20017S 20026S 20028S
TRACKING NO. COMREV05 DB98 KING2001 L3624 L4924
NSG0906 R109-89 R2859 R9309
PRIORITY: MANDATORY
RATIONALE: ASTRONAUT COMMUNICATION WITH GROUND. MANDATORY PER LAUNCH COMMIT CRITERIA.

1. DESCRIPTION: AIR-TO-GROUND-1 (ASTRO-COMM) (6312/6332)

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
1	7,17,28	T	1,2	CDSC EXT TO FR CONSOLES
2	7,17,28	T		CDSC FOR EXT TO JSC
3	7,17,28	T	2	CDSC EXT TO MILA

NOTE 1: PATCHED TO LC-39 OIS SYSTEM VIA ASTRO COMM PANEL.
NOTE 2: TALK CAPABILITY REQUIRED THROUGH LIFTOFF ONLY DURING LAUNCH AND AFTER LANDING ROLLOUT.

PRIME: KSC/PH-L/TED MOSTELLER/321 861-9307

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/03/06

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 333222
ITEM NUMBER: KT64K

RESPONSE TRACKING: Z2851 Z3621 Z4921 Z9310

[PRD] DATABASE RECORD: 589521 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/04/06
INITIAL DATE: 10/04/06
ITEM NUMBER: T64.2T DATE LAST CHANGED: 11/15/06
SECTION: 2750 TIME LAST CHANGED: 13:20:17

REQUESTER: JSC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20017S 20026S 20028S
TRACKING NO. NSG0906

1. DESCRIPTION: AIR-TO-GROUND-1 (ASTRO-COMM)

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
1	7,17,26,28	T		MCC FOR DISTRIBUITON

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/04/06

[PRD] DATABASE RECORD: 350923 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/03/06
INITIAL DATE: 02/07/90
ITEM NUMBER: GK64.3G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:14:36

REQUESTER: GSFC KSC
SUBREQUESTER: KSC/PH-L
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20017S 20026S 20028S

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 350923
ITEM NUMBER: GK64.3G

TRACKING NO. GSFCREV06 KING2001 L3624 L4924 MK98
NSG0906 R2855 R3433 R9309 SHAW94
PRIORITY: MANDATORY
RATIONALE: ASTRONAUT COMMUNICATION WITH GROUND. MANDATORY PER LAUNCH COMMIT CRITERIA.

1. DESCRIPTION: AIR-TO-GROUND-1 (ASTRO-COMM)

RESPONSIBLE AGENCY: GSFC/MILA

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
1	7,17,28	T	1,2	MILA FOR COMM WITH ORBITER CREW
2	7,17,28	T	1,3	MILA FOR EXT VIA NETWORK COMM

TECH CONTACT: MILA/MELISSA BLIZZARD/321 867-1068
COMM CONTACT: GSFC/AL DUANY/301 286-2721
KSC/MONIQUE MCLAMB/321 867-8540

NOTE 1: AIR/GROUND S-BAND 1.
NOTE 2: TALK CAPABILITY REQUIRED THROUGH LIFTOFF
ONLY DURING LAUNCH AND AFTER LANDING ROLLOUT.
NOTE 3: PATCHED TO NETWORK AIR/GROUND-1 CIRCUIT.

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/03/06
RESPONSE TRACKING: Z2848 Z3422 Z3621 Z4921 Z9311

[PRD] DATABASE RECORD: 361090 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/03/06
INITIAL DATE: 08/21/89
ITEM NUMBER: TGX65T DATE LAST CHANGED: 11/15/06
SECTION: 2750 TIME LAST CHANGED: 13:20:35

REQUESTER: JSC GSFC DFRC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 361090
ITEM NUMBER: TGX65T

SUBREQUESTER: JSC/MG
TEST CODE: STSALL SUPSIM

ASSOCIATED DOC: 20007S 20017S 20026S 20027S 20028S
TRACKING NO. A5501 COMREV05 KING2001 L04-2-2 L04-5-4 L2604 L2678 L5216 NSG0906 R0402-3 R0406-2 R109-89 R2809 R3433 R4924 R8306

1. DESCRIPTION: AIR-TO-GROUND-2 (V-2) (GCN-3)

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,17, 26,27,28	M		MCC FOR DISTRIBUTION
T2	7,17 26,27,28	M		EXT TO GSFC
T3	26	M		EXT TO DFRC

COMM CONTACT: JSC/DV/KEN JONES/281 483-7671

NOTE 1: CONFERENCE TOGETHER WITH AG-1 AT JSC/MCC.

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/03/06
RESPONSE TRACKING: Z0406-2 Z26212 Z3422 Z4921 Z5217 Z8307

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 364310 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/03/06
INITIAL DATE: 08/21/89
ITEM NUMBER: GKY65.1G DATE LAST CHANGED: 01/16/07
SECTION: 2750 TIME LAST CHANGED: 10:24:31

REQUESTER: GSFC KSC NASA HQ
SUBREQUESTER: GSFC/731 KSC/PH-L
TEST CODE: STSALL SUPSIM WSSH

ASSOCIATED DOC: 20007S 20017S 20026S 20027S 20028S
TRACKING NO. A5502 COMREV05 DB98 GSFCREV06 KING2001
L04-2-2 L04-5-4 L2604 L4924 L5216
L6805 NSG0906 R0402-3 R0406-2 R0501-1
R2732 R2809 R3433 R8306 R9309
PRIORITY: REQUIRED
RATIONALE: ASTRONAUT COMMUNICATION WITH GROUND. REQUIRED PER LAUNCH COMMIT CRITERIA.

1. DESCRIPTION: AIR-TO-GROUND-2 (V-2) (GCN-3)

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
1	7,17 26,27,28	M		MILA OPS
2	7,26,27, 28	M		GSFC DISTRIBUTION
3	7,17,26, 27,28	M		EXT TO NASA HQ
4	7,17,26, 27,28	M		EXT TO WSC/WSSH

COMM CONTACT: GSFC/AL DUANY/301 286-2721
KSC/MONIQUE MCLAMB/321 867-3540

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA WSSH
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/16/06

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 364310
ITEM NUMBER: GKY65.1G

RESPONSE TRACKING: Z0501-1 Z2732 Z3422 Z4921 Z5217
Z6404 Z8307 Z9311

[PRD] DATABASE RECORD: 224161 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/03/06
INITIAL DATE: 08/21/89
ITEM NUMBER: KE65.1.1K DATE LAST CHANGED: 11/09/06
SECTION: 2750 TIME LAST CHANGED: 07:36:17

REQUESTER: KSC ER
SUBREQUESTER: I-MIL KSC/PH-L SOC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20017S 20026S 20027S
20028S
TRACKING NO. A5501 COMREV05 DB98 KING2001 L04-2-2
L4924 L5216 NSG0906 R0402-3 R2732
R3433 R8306
PRIORITY: MANDATORY
RATIONALE: ASTRONAUT COMMUNICATION WITH GROUND. MANDATORY PER LAUNCH COMMIT CRITERIA.

1. DESCRIPTION: AIR-TO-GROUND-2 (V-2) (GCN-3)

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
1	7,17,26,27,28	T	1	CDSC FOR DIST
2	7,17,26,27,28	T		CDSC EXT TO CCAFS

PRIME: KSC/PH-L/TED MOSTELLER/321 861-9307

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

NOTE 1: COMMUNICATIONS VIA KSC-MILA ASTRO/COMM NETWORK INTERFACE.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 224161
ITEM NUMBER: KE65.1.1K

SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/03/06
RESPONSE TRACKING: Z2732 Z3422 Z4921 Z5217 Z8307

[PRD] DATABASE RECORD: 206744 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/03/06
INITIAL DATE: 08/21/89
ITEM NUMBER: ED65.1.1.1E DATE LAST CHANGED: 11/14/06
SECTION: 2750 TIME LAST CHANGED: 06:20:17

REQUESTER: ER HSFS
SUBREQUESTER: KSC/PH-L SOC
TEST CODE: EAFB STSALL SUPSIM WSSH

ASSOCIATED DOC: 20007S 20017S 20026S 20027S 20028S
TRACKING NO. A5501 COMREV05 KING2001 L04-2-2 L04-5-4
L2604 L2715 L2727 L4503 L4924
L6805 MK98 NSG0906 R0402-3 R0406-2
R109-89 R26184 R26219 R2732 R2809
R3433 RSRR8804 SHAW94
PRIORITY: REQUIRED
RATIONALE: BACKUP - GCN-1

1. DESCRIPTION: A/G-2 (V-2) (GCN-3) (L-5 HOURS)

RESPONSIBLE AGENCY: ER

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
1	7,17,26, 27,28	M	1	CCAFS X-Y FOR DISTRIBUTION
2	7,26	M		EAFB BUILDING 1440
3	7,26	M		EAFB TOWER
4	7,26	M		CCAFS, PAFB, DOD SOC
5	7,26	M		EAFB RADAR BLDG 4970

NOTE 1: ORBITER UHF

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 206744
ITEM NUMBER: ED65.1.1.1E

POC: ER/MIKE GAWEL/321 853-8118

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB ER WSMR
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/03/06
RESPONSE TRACKING: Z26113 Z2746 Z2950 Z3422 Z4518
Z4921 Z6820

[PRD] DATABASE RECORD: 213782 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/03/06
INITIAL DATE: 07/03/90
ITEM NUMBER: XK65.2X DATE LAST CHANGED: 05/16/07
SECTION: 2750 TIME LAST CHANGED: 11:08:07

REQUESTER: DFRC KSC
SUBREQUESTER: JSC KSC/PH-L
TEST CODE: EAFB S0027.001 STSALL

ASSOCIATED DOC: 20007S 20026S 20027S
TRACKING NO. A5501 COMREV05 DB98 KING2001 L04-2-2
L2604 L2655 L2667 L3806 L4605
L4924 NSG0906 R0402-3 R109-89 R2732
R9309
PRIORITY: MANDATORY
RATIONALE: ASTRONAUT COMMUNICTION WITH GROUND. MANDATORY PER LAUNCH COMMIT CRITERIA.

1. DESCRIPTION: AIR-TO-GROUND-2 (V-2)(GCN-3)

RESPONSIBLE AGENCY: DFRC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
1	7,26	M	1	DCC FOR DISTRIBUTION
2	7,26	M	1	SPA, OIS-A CHANNEL 10
3	7,26	M	1	CREW IN ORBITER

CONTINUED

[PRD] DATABASE RECORD: 213782
ITEM NUMBER: XK65.2X

4	7,26	M		DFRC FOR DISTRIBUTION TO ATR
5	7,26	M	1	BLDG. 4800, RM. 3018 - KSC GOM
6	7,26	M		BTCF FOR DISTRIBUTION TO EAFB
7	7,26	M		B4800, RM. 3018, HQ. LDG. OPS REP
8	7,26	M		B4800, RM. 3018, EMSS COORDINATOR
9	7,26	M		BLDG. 4800, RM. 3018, OPS MGR.
10	7,26	M		EXT. TO ASTRO, VITT, & VISITING PILOT'S TRAILERS
11	26	T		TPE IN FIRING ROOM

POC: DFRC/GEORGE GRIMSHAW/661 276-3425
TECHNICAL CONTACT: KSC/PH-L/DEAN SCHAAF/321 861-9311
KSC/USK-426/MIKE KUTA/321 861-3890

NOTE 1: REQUIRED UNTIL ORBITER ARRIVES AT THE DESERVICE AREA.

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/27/06
RESPONSE TRACKING: Z26201 Z26216 Z2936 Z3819 Z4603
Z4921 Z9601

[PRD] DATABASE RECORD: 203178 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/01/02
INITIAL DATE: 02/07/90
ITEM NUMBER: KT66K DATE LAST CHANGED: 11/09/06
SECTION: 2750 TIME LAST CHANGED: 08:08:20

REQUESTER: KSC JSC
SUBREQUESTER: KSC/PH-L
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20017S 20028S
TRACKING NO. COMREV05 DB98 KING2001 L113-2 L3624
L4924 NSG0906 R2859
PRIORITY: MANDATORY
RATIONALE: ASTRONAUT COMMUNICATION WITH GROUND. MANDATORY PER LAUNCH COMMIT CRITERIA.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 203178
ITEM NUMBER: KT66K

1. DESCRIPTION: AIR-TO-GROUND-2 (ASTRO-COMM)

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
1	7,17,28	T	1,2	CDSC FOR EXT TO FR CONSOLES
2	7,17,28	T		CDSC FOR EXT TO JSC
3	7,17,28	T		CDSC FOR EXT TO MILA

PRIME: KSC/PH-L/TED MOSTELLER/321 861-9307

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

NOTE 1: TALK CAPABILITY REQUIRED THROUGH LIFTOFF ONLY DURING LAUNCH AND AFTER LANDING ROLLOUT.
NOTE 2: WOULD REQUIRE FIRING ROOM OTC CONSOLE TO ACTIVATE A/G-2 ON ASTRO-COMM PANEL (BACKUP FOR A/G-1).

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/01/02
RESPONSE TRACKING: Z113-5 Z2851 Z3621 Z4921

[PRD] DATABASE RECORD: 589937 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/08/06
INITIAL DATE: 11/08/06
ITEM NUMBER: T66.2T DATE LAST CHANGED: 11/09/06
SECTION: 2750 TIME LAST CHANGED: 07:00:06

REQUESTER: JSC
TEST CODE:

ASSOCIATED DOC: 20007S 20017S 20028S
TRACKING NO. NSG0906

1. DESCRIPTION: AIR-TO-GROUND-2 (ASTRO COMM)

RESPONSIBLE AGENCY: JSC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 589937
ITEM NUMBER: T66.2T

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
1	7,17,26,28	T		MCC FOR DISTRIBUITON

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: NOACK RESPONSE DATE: 11/08/06

[PRD] DATABASE RECORD: 226720 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/05/06
INITIAL DATE: 02/07/90
ITEM NUMBER: GK66.3G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:15:31

REQUESTER: GSFC KSC
SUBREQUESTER: KSC/PH-L
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20017S 20026S 20028S
TRACKING NO. COMREV05 DB98 GSFCREV06 KING2001 L113-2
L3624 L4924 NSG0906 R2855 R3433
R9309
PRIORITY: MANDATORY
RATIONALE: ASTRONAUT COMMUNICATION WITH GROUND. MANDATORY PER LAUNCH COMMIT CRITERIA.

1. DESCRIPTION: AIR-TO-GROUND-2 (ASTRO-COMM)

RESPONSIBLE AGENCY: GSFC/MILA

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
1	7,17,28	T	1,2	MILA FOR COMM WITH ORBITER CREW
2	7,17,28	T	1,3	MILA FOR EXT VIA NETWORK COMM

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 226720
ITEM NUMBER: GK66.3G

PRIME: KSC/PH-L/TED MOSTELLER/321 861-9307

TECH CONTACT: MILA/MELISSA BLIZZARD/321 867-1068

COMM CONTACT: GSFC/AL DUANY/301 286-2721
KSC/MONIQUE MCLAMB/321 867-8540

NOTE 1: AIR/GROUND S-BAND 2.
NOTE 2: TALK CAPABILITY REQUIRED THROUGH LIFTOFF ONLY DURING LAUNCH AND AFTER LANDING ROLLOUT.
NOTE 3: WOULD REQUIRE CONTROL ROOM OTC CONSOLE TO ACTIVATE A/G-2 ON ASTRO PANEL (BACK-UP FOR A/G-1).

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/16/06
RESPONSE TRACKING: Z113-6 Z2848 Z3422 Z3621 Z4921
Z9311

[PRD] DATABASE RECORD: 316104 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/03/06
INITIAL DATE: 02/27/90
ITEM NUMBER: KG67K DATE LAST CHANGED: 11/09/06
SECTION: 2750 TIME LAST CHANGED: 08:25:03

REQUESTER: KSC GSFC
SUBREQUESTER: FR 3/4 KSC/MK-SIO KSC/PH-L OSR 3/4
TEST CODE: STSALL SUPSIM

ASSOCIATED DOC: 20007S 20017S
TRACKING NO. A5503 COMREV05 DB98 KING2001 L04-4-1
L2604 L3624 L3916 L4909 L4924
L4933 NSG0906 R0404-4 R109-89 R26185
R2658 R2732 R3114
PRIORITY: MANDATORY
RATIONALE: ASTRONAUNT COMMUNICATION WITH GROUND. MANDATORY PER LAUNCH COMMIT CRITERIA.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 316104
ITEM NUMBER: KG67K

1. DESCRIPTION: ORBITER UHF (ASTRO-COMM) OIS-211

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
1	7,17	T	1,2	FR CONSOLES
2	7,17	T		KSC/CDSC EXT TO MILA
3	7,17	T	3	EMSS COORD BIO-MED CONSOLE AC-4 FR 3/4 OSR 3/4 POS 4,5,6 REF SEC 3020
4				ITEM HKTY1.1.1K DBR 024257

NOTE 1: PATCHED TO LC-39 OIS SYSTEM VIA ASTRO COMM PANEL.
NOTE 2: TALK CAPABILITY REQUIRED THROUGH LIFTOFF ONLY DURING LAUNCH AND AFTER LANDING ROLLOUT.
NOTE 3: EMERGENCY MEDICAL COORDINATION WITH HELOS DURING MEDEVAC FLIGHTS FROM KSC TO DEFINITIVE MEDICAL CARE FACILITY.

PRIME: KSC/PH-L/JEFF SPAULDING/321 861-9306

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/03/06
RESPONSE TRACKING: Z2679 Z2732 Z3110 Z3621 Z3953
Z4906 Z4921 Z4934

[PRD] DATABASE RECORD: 184825 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/03/06
INITIAL DATE: 02/07/90
ITEM NUMBER: GK67.1G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:15:52

REQUESTER: GSFC KSC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 184825
ITEM NUMBER: GK67.1G

SUBREQUESTER: JSC KSC/PH-L
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20017S
TRACKING NO. COMREV05 DB98 GSFCREV06 KING2001 L04-4-1
L3624 NSG0906 R0404-4 R2732
PRIORITY: MANDATORY
RATIONALE: ASTRONAUT COMMUNICATION WITH GROUND. MANDATORY PER LAUNCH COMMIT CRITERIA.

1. DESCRIPTION: ORBITER UHF (ASTRO-COMM) OIS-211

RESPONSIBLE AGENCY: GSFC/MILA

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
1	7,17	T	1,2	MILA FOR COMM WITH ORBITER CREW
2	7,17	T	2	MILA FOR INTERFACE TO NETWORK COMM
3	7,17	T		EXT TO JSC

TECHNICAL CONTACT: GSFC/JAMES BANGERTER/301 286-7306
KSC/JEFF SPAULDING/321 861-9306

COMM CONTACT: GSFC/AL DUANY/301 286-2721

NOTE 1: AIR/GROUND UHF
NOTE 2: PATCHED TO NETWORK AIR/GROUND CIRCUIT (REFERENCE 2760 A/G-2)

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/16/06
RESPONSE TRACKING: Z0404-8 Z2733 Z3621

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 586937 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/03/06
INITIAL DATE: 04/26/06
ITEM NUMBER: T67.1.1T DATE LAST CHANGED: 10/03/06
SECTION: 2750 TIME LAST CHANGED: 08:54:20

REQUESTER: JSC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20017S
TRACKING NO. COMREV05 NSG0906

1. DESCRIPTION: ORBITER UHF (ASTRO COMM) OIS-211

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,17	T		MCC COMM TECH

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

[PRD] DATABASE RECORD: 519567 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/03/06
INITIAL DATE: 04/09/92
ITEM NUMBER: TGX68T DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:36:44

REQUESTER: JSC GSFC DFRC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 KING2001 L04-1-2 L04-2-2 L05-2-3
L4924 NSG0906 R0401-2 R0402-3 R0502-4
R109-89

1. DESCRIPTION: AIR-TO-GROUND UHF

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 519567
ITEM NUMBER: TGX68T

1	7	T	MCC CAPCOM CONSOLE
2	7	T	MCC FD CONSOLE
3	7	T	EXT TO GSFC/GN
4	7	T	EXT TO DFRC
5	7	M	EXT TO MSFC

COMM CONTACT: JSC/DV/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/03/06
RESPONSE TRACKING: Z0401-3 Z0402-4 Z4921

[PRD] DATABASE RECORD: 519568 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/03/06
INITIAL DATE: 04/09/92
ITEM NUMBER: GKY68.1G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:16:31

REQUESTER: GSFC KSC NASA HQ
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20007S 20026S
TRACKING NO. COMREV05 GSFCREV06 KING2001 L04-1-2 L04-2-2
L4924 NSG0906 R0401-2 R0402-2 R0402-3
R0501-1 R0505-5 R109-89 R9309

1. DESCRIPTION: AIR-TO-GROUND UHF (GCN-2)

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
1	7	T		GSFC FOR DIST
2	7	T		EXT TO WLPS
3	7	M		EXT TO NASA HQ

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 519568
ITEM NUMBER: GKY68.1G

4	7	M	EXT TO KSC
5	7	T	EXT TO WSC/WSSH

COMM CONTACT: GSFC/AL DUANY/301 286-2721

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: I-MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/16/06
RESPONSE TRACKING: Z0402-3 Z0403-1 Z0501-1 Z4921 Z9311

[PRD] DATABASE RECORD: 519574 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/03/06
INITIAL DATE: 04/09/92
ITEM NUMBER: KG68.1.1K DATE LAST CHANGED: 11/08/06
SECTION: 2750 TIME LAST CHANGED: 10:45:54

REQUESTER: KSC GSFC
SUBREQUESTER: I-MIL JSC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 L4924 NSG0906

1. DESCRIPTION: AIR-TO-GROUND UHF (GCN-2)

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
1	7	T/M		CDSC EXT TO MILA

TECH CONTACT: MILA/MELISSA BLIZZARD/321 867-1068
COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

NOTE: MILA WILL RECEIVE T/M OF THE UHF. KSC WILL RECEIVE
MONITOR OF GCN-2 FEED.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 519574
ITEM NUMBER: KG68.1.1K

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/03/06
RESPONSE TRACKING: Z4921

[PRD] DATABASE RECORD: 519570 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/21/99
INITIAL DATE: 04/09/92
ITEM NUMBER: X68.2X DATE LAST CHANGED: 03/20/07
SECTION: 2750 TIME LAST CHANGED: 08:40:20

REQUESTER: DFRC
SUBREQUESTER: JSC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20026S
TRACKING NO. COMREV05 KING2001 L4924 NSG0906 R109-89
R9309

1. DESCRIPTION: AIR-TO-GROUND UHF

RESPONSIBLE AGENCY: DFRC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
1	7	T		DCC FOR DIST

COMM CONTACT: DFRC/GEORGE GRIMSHAW/661 276-3425

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/23/99
RESPONSE TRACKING: Z4921 Z9601

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 357237 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/25/06
INITIAL DATE: 02/23/90
ITEM NUMBER: H68.3H DATE LAST CHANGED: 11/15/06
SECTION: 2750 TIME LAST CHANGED: 06:30:13

REQUESTER: MSFC
TEST CODE: CKT47 STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 KING2001 NSG0906 R107-3 R109-1
PRIORITY: REQUIRED
RATIONALE: STS VOICE LOOPS REQUIRED FOR COGNIZNAT ENGINEERS AT MSFC AND AT REMOTE LOCATIONS TO MONITOR THE PROGRESS OF SHUTTLE TESTING AND LAUNCH SUPPORT.

1. DESCRIPTION: AIR TO GROUND UHF

RESPONSIBLE AGENCY: MSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
H1	7	M		HOSC FOR DISTRIBUTION

POC: PHILIP CAUTHEN/EO60/256-544-4204
COMM CONTACT: SCOTT SCHUTZENHOFER/MP71/256-544-8496

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/14/06
RESPONSE TRACKING: Z109-1

[PRD] DATABASE RECORD: 285596 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/20/97
INITIAL DATE: 06/30/89
ITEM NUMBER: TK69T DATE LAST CHANGED: 05/03/06
SECTION: 2750 TIME LAST CHANGED: 09:17:52

REQUESTER: JSC KSC
SUBREQUESTER: I-MIL
TEST CODE: CKT97 STSALL

CONTINUED

[PRD] DATABASE RECORD: 285596
ITEM NUMBER: TK69T

ASSOCIATED DOC: 20007S 20017S
TRACKING NO. COMREV04 KING2001 L4924 L906-8 R109-89
R2886 R8307

1. DESCRIPTION: MIL AIR-TO-GROUND (MIL A/G) (UHF B/U)

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,17	T		EXTEND TO MIL VIA KSC
T2	7,17	T		JSC/MCC FOR DIST

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/20/97
RESPONSE TRACKING: Z2869 Z4921 Z8309

[PRD] DATABASE RECORD: 235734 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/20/97
INITIAL DATE: 06/30/89
ITEM NUMBER: K69.1K DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 14:32:35

REQUESTER: KSC
SUBREQUESTER: I-MIL JSC
TEST CODE: CKT97 STSALL

ASSOCIATED DOC: 20007S 20017S
TRACKING NO. COMREV05 KING2001 L4924 L906-8 R109-89
R2886 R8307

1. DESCRIPTION: MIL AIR-TO-GROUND (MIL A/G) (UHF B/U)

RESPONSIBLE AGENCY: KSC

CONTINUED

[PRD] DATABASE RECORD: 235734
ITEM NUMBER: K69.1K

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,17	T		CDSC FOR EXTENSION TO MIL

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/20/97
RESPONSE TRACKING: Z2869 Z4921 Z8309

[PRD] DATABASE RECORD: 234703 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/20/97
INITIAL DATE: 06/13/89
ITEM NUMBER: T69.2G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:20

REQUESTER: JSC
TEST CODE: CKT97 STSALL

ASSOCIATED DOC: 20007S 20017S
TRACKING NO. COMREV05 GSFCREV06 KING2001 L4924 R109-89
R2850 R8307

1. DESCRIPTION: MIL AIR-TO-GROUND (MILA A/G) (UHF B/U)

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,17	T		TERMIN. MILA FOR UPLINK TO SSO

COMM CONTACT: GSFC/AL DUANY/301 286-2721

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 234703
ITEM NUMBER: T69.2G

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/20/97
RESPONSE TRACKING: Z2843 Z4921 Z8309

[PRD] DATABASE RECORD: 184684 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/27/95
INITIAL DATE: 02/15/91
ITEM NUMBER: E70EG DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:17

REQUESTER: ER
SUBREQUESTER: KSC KSC/TA-E
TEST CODE: CKT64 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S 20026S
20027S 20028S
TRACKING NO. COMREV05 KING2001 L2604 L2607 L2838
L3918 L408-3 L6817 MK98 R109-89
R26184 R26206 R26219 R2809 SHAW94
SHAW95

1. DESCRIPTION: LEAD RANGE COORD

RESPONSIBLE AGENCY: ER

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
EK1	7,14,17, 26,27,28	T		CCAFS, X-Y BLDG FOR DISTRIBUTION
K2	7,14,17	T		CCAFS, ROCC, NASA MGT CONSOLE
K3	7,14,17 26,27,28	T		EXT TO KSC

POINTS OF CONTACT: ER MIKE GAWEL/321 853-8118
KSC WILLIAM HAASE/321 494-9163

REFERENCE: LLS2730 ITEM EK15G DBR 528059

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 184684
ITEM NUMBER: E70EG

RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/22/95
RESPONSE TRACKING: Z26142 Z28112 Z3955 Z6823 Z6923

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/18/95
RESPONSE TRACKING: Z6823 Z6906

[PRD] DATABASE RECORD: 238104 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/27/06
INITIAL DATE: 05/17/88
ITEM NUMBER: K70.1K DATE LAST CHANGED: 05/04/07
SECTION: 2750 TIME LAST CHANGED: 08:07:38

REQUESTER: KSC
SUBREQUESTER: ER
TEST CODE: CKT64 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S 20026S
20027S 20028S
TRACKING NO. COMREV05 L2604 L408-3 L6817 MEET86

1. DESCRIPTION: LEAD RANGE COORD

RESPONSIBLE AGENCY: KSC

REF	TEST CODE	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17 26,27,28	T		EXT TO GSFC

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/27/06

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 238104
ITEM NUMBER: K70.1K

[PRD] DATABASE RECORD: 239183 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/12/05
INITIAL DATE: 05/17/88
ITEM NUMBER: GY70.2G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:20

REQUESTER: GSFC NASA HQ
SUBREQUESTER: GSFC/700
TEST CODE: CKT64 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. COMREV05 KING2001 L2604 R0505-5 R109-89

1. DESCRIPTION: LEAD RANGE COORD

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
G1	7,14	T		GSFC FOR DISTRIBUTION
Y2	7,14	M		NASA HQ DIST. SPACE OPS. CENTER

COMM CONTACTS: GSFC/AL DUANY/301 286-2721

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/12/05

[PRD] DATABASE RECORD: 307149 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/14/99
INITIAL DATE: 01/29/90
ITEM NUMBER: EDK71E DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 15:10:53

REQUESTER: ER HSFS KSC
SUBREQUESTER: SOC
TEST CODE: CKT95 FULLTIME STSALL

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 307149
ITEM NUMBER: EDK71E

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
MODE8
TRACKING NO. COMREV05 L3615 L4503 L4601 R109-89
R2809 R9305

1. DESCRIPTION: DOD PATCH-1

RESPONSIBLE AGENCY: ER

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
D1	7,26,27,28, MODE8	T		CCAFS ROCC, PAFB DOD SOC
D2	7,26,27,28, MODE8	T		EXT TO KSC CDSC

TECH CONTACT: ER/MIKE GAWEL/321 853-8118

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/14/99
RESPONSE TRACKING: Z3612 Z4518 Z4626 Z9305

[PRD] DATABASE RECORD: 201596 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/03/94
INITIAL DATE: 01/29/90
ITEM NUMBER: D71.1D DATE LAST CHANGED: 05/30/07
SECTION: 2750 TIME LAST CHANGED: 10:33:11

REQUESTER: HSFS
SUBREQUESTER: SOC
TEST CODE: ALS CKT95 ELS FULLTIME
STSALL

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
MODE8

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 201596
ITEM NUMBER: D71.1D

TRACKING NO. COMREV05 KING2001 L3615 L4503 L4601
R109-89 R2809 R6535
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR COMMUNICATIONS WITH DOD CONTINGENCY LANDING SITES.

1. DESCRIPTION: DOD PATCH-1

RESPONSIBLE AGENCY: DDMS

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
D1	7,26,27,28, MODE8	T		EXTENDED TO RECOVERY FORCES
D2	7,26,27,28	T		EXTEND TO DESIGNATED DOD ALS/ELS

TECH CONTACT: DDMS-O/321 494-8581

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/03/94
RESPONSE TRACKING: Z4518 Z4628 Z6527 ZZ3612

[PRD] DATABASE RECORD: 203556 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/24/92
INITIAL DATE: 04/29/91
ITEM NUMBER: KT71.2K DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 07:52:35

REQUESTER: KSC JSC
SUBREQUESTER: KSC/MK-SIO OMR1/3/4 SOC
TEST CODE: CKT95 FULLTIME STSALL

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
MODE8
TRACKING NO. COMREV05 KING2001 L2814 L3916 L4601
R109-89 R2809 R2859
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR COMMUNICATIONS WITH DOD CONTINGENCY LANDING

CONTINUED

[PRD] DATABASE RECORD: 203556
ITEM NUMBER: KT71.2K

SITES.

1. DESCRIPTION: DOD PATCH-1

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
D1	7,26,27,28, MODE8	T		CDSC FOR EXTENSION TO JSC OMR1/3/4
Y2				POS 3,5 AND 9,10 REF SEC 3020 ITEM DHKTY1.1.2K, DBR 024268

TECH CONTACT: DDMS-O/321 494-8581

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/24/92
RESPONSE TRACKING: Z2851 Z2886 Z4627

[PRD] DATABASE RECORD: 217663 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/03/94
INITIAL DATE: 01/29/90
ITEM NUMBER: T71.2.1T DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 15:14:35

REQUESTER: JSC
SUBREQUESTER: DDMS SOC
TEST CODE: CKT95 FULLTIME STSALL

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
MODE8
TRACKING NO. A5502 COMREV05 KING2001 L3615 L4503
L4601 L4907 R109-89 R2809 R6535
PRIORITY: REQUIRED

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 217663
ITEM NUMBER: T71.2.1T

RATIONALE: REQUIRED FOR COMMUNICATIONS WITH DOD CONTINGENCY LANDING SITES.

1. DESCRIPTION: DOD PATCH-1

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
D1	7,26,27,28, MODE8	T	1	MCC FOR DISTRIBUTION
D2	7,26,27,28, MODE8	T		DOD LSO CONSOLE
D3	7,26,27,28, MODE8	T		LSO CONSOLE (NASA)
D4	7,26,27,28,	T		SURGEON CONSOLE
D5	7,26,27,28,	M		AEROMED CONSOLE

TECH CONTACT: DDMS-O/321 494-8581

COMM CONTACT: JSC/KEN JONES/281 483-7671

NOTE 1: FOR A DECLARED LANDING, ALSO PATCHED BY JSC TO LANDING FIELD PRIME 1; ALL L/F PR-1 TERMINATIONS (EXCEPT JSC AND KSC) ARE THEN INHIBITED.

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/19/94
RESPONSE TRACKING: Z3612 Z4518 Z4618 Z4904 Z6543

[PRD] DATABASE RECORD: 292621 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/14/99
INITIAL DATE: 12/18/89
ITEM NUMBER: EDK72E DATE LAST CHANGED: 05/31/07
SECTION: 2750 TIME LAST CHANGED: 07:16:34

REQUESTER: ER HSFS KSC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 292621
ITEM NUMBER: EDK72E

SUBREQUESTER: SOC
TEST CODE: CKT94 FULLTIME STSALL

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
MODE8
TRACKING NO. COMREV05 KING2001 L3220 L4503 L4601
R109-89 R2809 R9305
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR COMMUNICATIONS WITH DOD CONTINGENCY LANDING SITES.

1. DESCRIPTION: DOD PATCH-2

RESPONSIBLE AGENCY: ER

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
D1	7,26,27,28, MODE8	T		CCAFS ROCC, PAFB DOD SOC
D2	7,26,27,28, MODE8	T		EXT to KSC CDSC

TECH CONTACT: ER/MIKE GAWEL/321 853-8118
HSFS-O/321 494-8581

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/14/99
RESPONSE TRACKING: Z3222 Z4518 Z4626 Z9305

[PRD] DATABASE RECORD: 197121 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/03/94
INITIAL DATE: 12/18/89
ITEM NUMBER: D72.1D DATE LAST CHANGED: 05/30/07
SECTION: 2750 TIME LAST CHANGED: 10:33:10

REQUESTER: HSFS

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 197121
ITEM NUMBER: D72.1D

SUBREQUESTER: SOC
TEST CODE: ALS CKT94 ELS FULLTIME
STSALL

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
MODE8
TRACKING NO. COMREV05 KING2001 L3220 L4503 L4601
R109-89 R2809 R6535
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR COMMUNICATIONS WITH DOD CONTINGENCY LANDING SITES.

1. DESCRIPTION: DOD PATCH-2

RESPONSIBLE AGENCY: DDMS

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
D1	7,26,27,28, MODE8	T		EXTENDED TO RECOVERY FORCES
D2	7,26,27,28	T		EXTEND TO DESIGNATED ALS/ELS

TECH CONTACT: DDMS-O/321 494-8581

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/03/94
RESPONSE TRACKING: Z3222 Z4518 Z4628 Z6527

[PRD] DATABASE RECORD: 199190 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/24/92
INITIAL DATE: 04/12/91
ITEM NUMBER: KT72.2K DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 15:16:39

REQUESTER: KSC JSC
SUBREQUESTER: KSC/MK-SIO OMR1/3/4
TEST CODE: CKT94 FULLTIME L41D10 STSALL

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 199190
ITEM NUMBER: KT72.2K

ASSOCIATED DOC: 20007S 20026S 20027S 20028S MODE8
TRACKING NO. COMREV05 L2814 L3220 L3916 L4601 L4907 R2809

1. DESCRIPTION: DOD PATCH-2

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
D1	7,26,27,28, MODE8	T		CDSC FOR EXTENSION TO JSC
D2	7,26,27,28	T		CDSC FOR EXTENSION TO LCC CONSOLES
				OMR1/3/4
Y3				POS 3,5 AND 9,10 REF SEC 3020 ITEM DHKTY1.1.2K, DBR 024268

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/24/92
RESPONSE TRACKING: Z2886 Z3222 Z3953 Z4627 Z4904

[PRD] DATABASE RECORD: 210701 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/03/94
INITIAL DATE: 12/18/89
ITEM NUMBER: T72.2.1T DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 15:17:01

REQUESTER: JSC
SUBREQUESTER: DDMS SOC
TEST CODE: CKT94 FULLTIME STSALL

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 210701
ITEM NUMBER: T72.2.1T

ASSOCIATED DOC: 20007S 20026S 20027S 20028S MODE8
TRACKING NO. A5502 COMREV05 KING2001 L3220 L4503 L4601 R109-89 R2809 R6535
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR COMMUNICATIONS WITH DOD CONTINGENCY LANDING SITES.

1. DESCRIPTION: DOD PATCH-2

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
D1	7,26,27,28, MODE8	T		MCC FOR DISTRIBUTION
D2	7,26,27,28, MODE8	T		DOD LSO CONSOLE
D3	7,26,27,28, MODE8	T		LSO CONSOLE (NASA)
D4	7,26,27,28,	T		SURGEON CONSOLE
D5	7,26,27,28,	T		AEROMED CONSOLE

TECH CONTACT: DDMS-O/321 494-8581

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/19/94
RESPONSE TRACKING: Z3222 Z4518 Z4618 Z6543

[PRD] DATABASE RECORD: 8741 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/14/99
INITIAL DATE: 05/01/86
ITEM NUMBER: EDK73E DATE LAST CHANGED: 04/26/06

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 8741
ITEM NUMBER: EDK73E

SECTION: 2750 TIME LAST CHANGED: 15:18:00

REQUESTER: ER HSFS KSC
SUBREQUESTER: DDMS SOC
TEST CODE: CKT68 FULLTIME STSALL

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
MODE8
TRACKING NO. COMREV05 KING2001 L3220 L4503 L4601
R109-89 R2809 R9305

1. DESCRIPTION: DOD PATCH 3

RESPONSIBLE AGENCY: ER

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
D1	7,26,27,28, MODE8		1	CCAFS,ROCC, PAFB DOD SOC
D2	7,26,27,28, MODE8		2	EXT TO KSC CDSC

TECH CONTACT: ER/MIKE GAWEL/321 853-8118

NOTE 1: COMMAND/CONTROL CIRCUIT BETWEEN MCC AND THE SOC.

NOTE 2: ACTIVATE POST-LAUNCH USING EXISTING JSC TO KSC/CDSC CKTS.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/14/99
RESPONSE TRACKING: Z3222 Z4518 Z4626 Z9305

[PRD] DATABASE RECORD: 291266 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/18/89
INITIAL DATE: 12/18/89
ITEM NUMBER: D73.1D DATE LAST CHANGED: 05/31/07
SECTION: 2750 TIME LAST CHANGED: 07:14:32

CONTINUED

[PRD] DATABASE RECORD: 291266
ITEM NUMBER: D73.1D

REQUESTER: HSFS
SUBREQUESTER: SOC
TEST CODE: CKT68 FULLTIME STSALL

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
TRACKING NO. COMREV05 KING2001 L3220 R109-89 R2809

1. DESCRIPTION: DOD PATCH 3

RESPONSIBLE AGENCY: HSFS

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
D1	7,26,27,28		1	EXT TO DESIGNATED DOD ALS/ELS

TECH CONTACT: HSFS-O/JAY SUMMERS/321 494-8581

NOTE 1: COMMAND/CONTROL CIRCUIT BETWEEN MCC, THE SOC, AND THE A/FSC AT DESIGNATED ALS/ELS.

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/18/89
RESPONSE TRACKING: Z3222

[PRD] DATABASE RECORD: 294420 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/30/04
INITIAL DATE: 12/18/89
ITEM NUMBER: KT73.2K DATE LAST CHANGED: 05/31/07
SECTION: 2750 TIME LAST CHANGED: 07:18:15

REQUESTER: KSC JSC
TEST CODE: CKT68 FULLTIME STSALL

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
MODE8
TRACKING NO. L04-1-2 L3220 L4601 R0401-2 R109-89
R2809

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 294420
ITEM NUMBER: KT73.2K

PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR COMMUNICATIONS WITH DOD CONTINGENCY LANDING SITES.

1. DESCRIPTION: DOD PATCH 3

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
D1	7,26,27,28, MODE8	T		CDSC EXT TO JSC

THIS IS A DEDICATED RESOURCE AND IS ACTIVATED AT L-31:00.

TECH CONTACT: HSFS-X/321 494-8581
COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/30/04
RESPONSE TRACKING: Z3222 Z4627

[PRD] DATABASE RECORD: 303546 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/24/92
INITIAL DATE: 12/18/89
ITEM NUMBER: T73.2.1T DATE LAST CHANGED: 04/26/06
SECTION: 2750 TIME LAST CHANGED: 15:19:10

REQUESTER: JSC
SUBREQUESTER: DDMS
TEST CODE: CKT68 FULLTIME STSALL

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
MODE8
TRACKING NO. A5501 COMREV05 KING2001 L04-1-2 L103-5

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 303546
ITEM NUMBER: T73.2.1T

L3220 L3726 L4503 L4601 R0401-2
R109-89 R2809

1. DESCRIPTION: DOD PATCH 3

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
D1	7,26,27,28, MODE8	T		MCC FOR DIST
D2	7,26,27,28, MODE8	T		DOD LSO CONSOLE
D3	7,26,27,28, MODE8	T		LSO CON. NASA

DEDICATED RESOURCE CONNECTION TO/FROM KSC.

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/22/92
RESPONSE TRACKING: Z3222 Z3728 Z4518 Z4618

[PRD] DATABASE RECORD: 8745 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/14/99
INITIAL DATE: 05/01/86
ITEM NUMBER: EDK74E DATE LAST CHANGED: 11/30/06
SECTION: 2750 TIME LAST CHANGED: 13:11:20

REQUESTER: ER HSFS KSC
SUBREQUESTER: SOC
TEST CODE: FULLTIME STSALL

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
MODE8
TRACKING NO. COMREV05 KING2001 L3320 L4503 L4601
R109-89 R2809 R9305

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 8745
ITEM NUMBER: EDK74E

PRIORITY: MANDATORY
RATIONALE: REQUIRED TO COORDINATED DOD CONTINGENCY SUPPORT.

1. DESCRIPTION: DDMS COMMUNICATIONS COORDINATION (COMM COORD) CIRCUIT

RESPONSIBLE AGNECY: ER

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
D1	7,26,27,28, MODE8	T	1	CCAFS,ROCC, PAFB DOD SOC
D2	7,26,27,28, MODE8	T	1	EXTENSION TO KSC CDSC

TECH CONTACT: ER/MIKE GAWEL/321 853-8118
DDMS-O/JAY SUMMERS/321 494-8581

NOTE 1: PRIMARY USE IS FOR DIRECT COORDINATION BETWEEN THE LSO/DOD LSO IN THE MCC AND THE DOD COMM COORDINATOR IN THE SOC AT CCAFS. ALSO USED FOR COORDINATION BETWEEN JSC VOICE CONTROL AND THE DOD COMM COORDINATOR.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/14/99
RESPONSE TRACKING: Z3222 Z4518 Z4626 Z9305

[PRD] DATABASE RECORD: 249288 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/18/89
INITIAL DATE: 12/18/89
ITEM NUMBER: D74.1D DATE LAST CHANGED: 05/30/07
SECTION: 2750 TIME LAST CHANGED: 10:43:26

REQUESTER: HSFS
SUBREQUESTER: SOC
TEST CODE: FULLTIME STSALL

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 249288
ITEM NUMBER: D74.1D

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
TRACKING NO. COMREV05 KING2001 L3220 R109-89 R2809
PRIORITY: MANDATORY
RATIONALE: REQUIRED TO ESTABLISH/MAINTAIN COMMUNICATIONS WITH DOD CONTINGENCY LANDING SITES.

1. DESCRIPTION: HSFS COMMUNICATIONS COORDINATION (COMM COORD) CIRCUIT

RESPONSIBLE AGENCY: HSFS

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
D1	7,26,27,28	T	1	EXTENSION TO DOD ALS/ELS

TECH CONTACT: HSFS-O/JAY SUMMERS/321 494-8581

NOTE 1: CAPABILITY WILL BE PROVIDED AT THE CCAFS FOR EXT TO DESIGNATED DOD ALS/ELS OR OTHER AREAS, AS REQUIRED, FOR CONTINGENCY SUPPORT.

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/18/89
RESPONSE TRACKING: Z3222

[PRD] DATABASE RECORD: 180172 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/24/92
INITIAL DATE: 12/18/89
ITEM NUMBER: KT74.2K DATE LAST CHANGED: 04/27/06
SECTION: 2750 TIME LAST CHANGED: 06:49:39

REQUESTER: KSC JSC
SUBREQUESTER: DDMS SOC
TEST CODE: CKT73 FULLTIME STSALL

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
MODE8
TRACKING NO. COMREV05 KING2001 L3220 L4601 R109-89

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 180172
ITEM NUMBER: KT74.2K

R2809
PRIORITY: MANDATORY
RATIONALE: REQUIRED TO ESTABLISH/MAINTAIN COMMUNICATIONS.

1. DESCRIPTION: DDMS COMMUNICATIONS COORDINATION (COMM COORD) CIRCUIT

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
D1	7,26,27,28, MODE8	T		CDSC FOR EXTENSION TO JSC

TECH CONTACT: DDMS-O/321 494-8581
COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/24/92
RESPONSE TRACKING: Z3222 Z4627

[PRD] DATABASE RECORD: 284564 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/24/92
INITIAL DATE: 12/18/89
ITEM NUMBER: T74.2.1T DATE LAST CHANGED: 05/31/07
SECTION: 2750 TIME LAST CHANGED: 07:10:44

REQUESTER: JSC
SUBREQUESTER: SOC
TEST CODE: CKT73 FULLTIME STSALL

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
MODE8
TRACKING NO. A5502 COMREV05 KING2001 L3220 L4601
L4923 R109-89 R2809
PRIORITY: MANDATORY
RATIONALE: REQUIRED TO ESTABLISH/MAINTAIN COMMUNICATIONS WITH DOD

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 284564
ITEM NUMBER: T74.2.1T

CONTINGENCY LANDING SITES.

1. DESCRIPTION: HSFS COMMUNICATIONS COORDINATION (COMM COORD)

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
D1	7,26,27,28, MODE8	T		MCC DISTRIBUTION
D2	7,26,27,28, MODE8	T	1	VOICE CONTROL
D3	7,26,27,28, MODE8	T		DOD LSO CONSOLE
D4	7,26,27,28, MODE8	T		NASA LSO CONSOLE

TECH CONTACT: HSFS-O/321 494-8581
COMM CONTACT: JSC/KEN JONES/281 483-7671

NOTE 1: PRIMARY USE IS FOR DIRECT COORDINATION BETWEEN THE LSO/DOD LSO IN THE MCC AND THE DOD COMM COORDINATOR IN THE SOC AT CCAFS. ALSO USED FOR COORDINATION BETWEEN JSC VOICE CONTROL AND THE DOD COMM COORDINATOR.

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/22/92
RESPONSE TRACKING: Z3222 Z4618 Z4918

[PRD] DATABASE RECORD: 287813 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/14/99
INITIAL DATE: 08/21/89
ITEM NUMBER: EDK75E DATE LAST CHANGED: 05/31/07
SECTION: 2750 TIME LAST CHANGED: 07:12:49

REQUESTER: ER HSFS KSC
SUBREQUESTER: SOC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 287813
ITEM NUMBER: EDK75E

TEST CODE: FULLTIME STSALL WSSH

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
MODE8
TRACKING NO. COMREV05 KING2001 L2727 L4503 L4601
L908-7 R109-89 R2727 R2809 R3433
R9305

1. DESCRIPTION: DOD COORDINATION (DOD COORD)

RESPONSIBLE AGENCY: ER

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
D1	7,26,27,28, MODE8	T		CCAFS,ROCC, PAFB DOD SOC
D2	7,26,27,28, MODE8	T	1	EXTENSION TO KSC CDSC
D3	27	T		WSMR BLDG 300 FOR DIST
D4	27	T		EXT WSMR BLDG 300 TO KING 1

TECH CONTACT: ER/MIKE GAWEL/321 853-8118
HSFS-O/JAY SUMMERS/321 494-8581

NOTE 1: CAPABILITY WILL BE PROVIDED AT CCAFS FOR EXTENSION TO DESIGNATED DOD ALS/ELS OR OTHER AREAS AS REQUIRED FOR CONTINGENCY SUPPORT.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/14/99
RESPONSE TRACKING: Z2718 Z2746 Z3422 Z4518 Z4626
Z9305

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 291098 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/24/92
INITIAL DATE: 04/12/91
ITEM NUMBER: KT75.1K DATE LAST CHANGED: 05/31/07
SECTION: 2750 TIME LAST CHANGED: 07:13:55

REQUESTER: KSC JSC
SUBREQUESTER: KSC/MK-SIO OMR1/3/4 SOC
TEST CODE: CKT74 FULLTIME STSALL

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
MODE8
TRACKING NO. COMREV05 KING2001 L3916 L4601 R109-89
R26263 R2715 R2809
PRIORITY: MANDATORY
RATIONALE: REQUIRED TO COORDINATE DOD CONTINGENCY SUPPORT.

1. DESCRIPTION: HSFS COORDINATION (HSFS COORD)

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,26,27,28, MODE8	T		CDSC EXTEND TO JSC
				OMR1/3/4
Y2				POS 3,5 AND 9,10 REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257

TECH CONTACT: HSFS-O/321 494-8581
COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8450

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/24/92
RESPONSE TRACKING: Z26191 Z2711 Z3953 Z4627

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 228075 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/15/04
INITIAL DATE: 02/16/89
ITEM NUMBER: TX75.1.1T DATE LAST CHANGED: 04/27/06
SECTION: 2750 TIME LAST CHANGED: 07:20:11

REQUESTER: JSC DFRC
SUBREQUESTER: SOC
TEST CODE: CKT74 FULLTIME STSALL

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
MODE8
TRACKING NO. A5502 COMREV05 KING2001 L04-6-1 L2942
L4503 L4601 R0406-3 R109-89 R2809
PRIORITY: MANDATORY
RATIONALE: REQUIRED TO COORDINATE DOD CONTINGENCY SUPPORT.

1. DESCRIPTION: DDMS COORDINATION (DDMS COORD)

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
D1	7,26,27,28, MODE8	T	1	MCC FOR DISTRIBUTION
D2	7,26,27,28, MODE8	T	1	DOD LSO CONSOLE
D3	7,26,27,28, MODE8	T	1	LSO CONSOLE (NASA)
D4	27	T	1	EXTENSION TO WSMR/VIA GSFC
D5	26	T	1	EXTENSION TO DFRC

COMM CONTACT: JSC/KEN JONES/281 483-7671

NOTE 1: PRIMARY USE IS FOR DIRECT COORDINATION BETWEEN THE USA/DOD USA IN THE MCC AND THE RECOVERY STAFF IN SOC. CCAFS.

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/15/04

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 228075
ITEM NUMBER: TX75.1.1T

RESPONSE TRACKING: Z0406-3 Z2983 Z4518 Z4618

[PRD] DATABASE RECORD: 17680 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/16/89
INITIAL DATE: 02/16/89
ITEM NUMBER: X75.1.1.1X DATE LAST CHANGED: 03/20/07
SECTION: 2750 TIME LAST CHANGED: 08:41:31

REQUESTER: DFRC
SUBREQUESTER: DDMS
TEST CODE: CKT74 EAFB FULLTIME STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. COMREV05 KING2001 L2942 R109-89
PRIORITY: MANDATORY
RATIONALE: REQUIRED TO COORDINATE DOD CONTINGENCY SUPPORT.

1. DESCRIPTION: DDMS COORDINATION (DDMS COORD)

RESPONSIBLE AGENCY: DFRC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
D1	26	T	1	EAFB CONTINGENCY COORD CONSOLE, DFRC CONTROL ROOM

TECH CONTACT: DDMS-O/321 494-8581
DFRC/GEORGE GRIMSHAW/661 276-3425

NOTE 1: PRIMARY USE IS FOR DIRECT COORDINATION BETWEEN THE LSO/DOD LSO IN THE MCC AND THE RECOVERY STAFF IN THE SOC AT CCAFS.

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/16/89
RESPONSE TRACKING: Z2983

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 576635 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/25/05
INITIAL DATE: 06/28/04
ITEM NUMBER: G75.1.1.2G DATE LAST CHANGED: 05/31/07
SECTION: 2750 TIME LAST CHANGED: 10:09:59

REQUESTER: GSFC
SUBREQUESTER: HSFS
TEST CODE: CKT74 STSALL WSSH

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
MODE8
TRACKING NO. L04-6-1 R0501-1
PRIORITY: MANDATORY
RATIONALE: REQUIRED TO COORDINATE DOD CONTINGENCY SUPPORT

1. DESCRIPTION: HSFS COORDINATION (HSFS COORD)

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
D1	7,26,27,28 MODE8	T		EXTEND TO WSC/WSSH/WSMR

COMM CONTACT: GSFC/AL DUANY/301 286-2721

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/25/05
RESPONSE TRACKING: Z0501-1

[PRD] DATABASE RECORD: 586698 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/27/06
INITIAL DATE: 03/27/06
ITEM NUMBER: K75.1.1.3Z DATE LAST CHANGED: 05/31/07
SECTION: 2750 TIME LAST CHANGED: 10:19:32

REQUESTER: KSC
SUBREQUESTER: HSFS
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20027S

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 586698
ITEM NUMBER: K75.1.1.3Z

TRACKING NO. COMREV05

1. DESCRIPTION: HSFS COORDINATION (HSFS COORD)

RESPONSIBLE AGENCY: WSTF

REF	ASSOC. DOC	CAP	NOTE	TERMINATION LOCATION
Z1	7,27	T		EXT TO WSC/WSSH/WSMR

POC: WSTF/ROBERT MITCHELL/505 524-5774
COMM CONTACT: WSTF/SCOTT SEILER/505 524-5124

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/27/06

[PRD] DATABASE RECORD: 246851 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/04/04
INITIAL DATE: 11/12/91
ITEM NUMBER: KEGT76K DATE LAST CHANGED: 05/03/06
SECTION: 2750 TIME LAST CHANGED: 09:23:38

REQUESTER:	KSC	ER	GSFC	
	JSC			
SUBREQUESTER:	FR2	JSC/MG	KSC/MK-SIO	KSC/PH-L
	OMR1/3/4	OSR1/3/4	SOC	
TEST CODE:	CKT71	STSALL	SUPSIM	

ASSOCIATED DOC:	20007S	20026S	20027S	20028S	
TRACKING NO.	A5502	COMREV05	DB98	KING2001	L04-3-2
	L04-5-4	L111-10	L2604	L2678	L3916
	L4419	L4625	R0403-5	R0406-2	R109-89
	R2809				

PRIORITY: MANDATORY
RATIONALE: CONVOY COMMANDER, COMAND AND CONTROL, OMI CALLOUTS.

1. DESCRIPTION: CONVOY COMMANDER NET

CONTINUED

[PRD] DATABASE RECORD: 246851
ITEM NUMBER: KEGT76K

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,26,27, 28	T	1	FR CONSOLES
T2	7,26,27, 28	T	2	CDSC FOR EXT. TO JSC
K3	7,26,27,28	T		CDSC FOR EXT. TO CCAFS
T4	28	M		KSC NF MER CONSOLE
T5	7,26,27,28	T		CDSC FOR EXT TO GSFC
				OSR1/3/4
Y6				ALL POS REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257
				OMR1/3/4
Y7				ALL POS REF SEC 3020 ITEM DHKTY1.1.2K, DBR 024268
				FR2
T8				ALL JSC CONS REF SEC 3020 ITEM T44.1K, DBR 024313

PRIME: KSC/PH-L/DENNY GAGEN/321 861-9301

TECH CONTACT: KSC/USK-426/MIKE KUTA/321 861-3890
COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

NOTE 1: SEE LLS2700, ITEM K49EGTZ, DBR 184463 & ITEM K51GTX, DBR 208463, FOR TIMES CIRCUITS ARE ESTABLISHED AND RELEASED.

NOTE 2: JSC REQUIRES TALK CAPABILITY POST LANDING OPS THRU CREW

CONTINUED

[PRD] DATABASE RECORD: 246851
ITEM NUMBER: KEGT76K

EGRESS (MCC REMOTE KEYING AT DFRC, AND WSMR VIA GSFC/KSC).

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/04/04
RESPONSE TRACKING: Z2730 Z3953 Z4210 Z4634

[PRD] DATABASE RECORD: 278248 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/31/04
INITIAL DATE: 02/21/91
ITEM NUMBER: T76.1T DATE LAST CHANGED: 04/27/06
SECTION: 2750 TIME LAST CHANGED: 07:17:38

REQUESTER: JSC
SUBREQUESTER: JSC/MG KSC KSC/PH-L
TEST CODE: CKT71 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
TRACKING NO. A5501 COMREV05 DB98 KING2001 L04-3-2
L04-5-4 L101-4 L2604 L2678 L2830
L3806 L3931 L908-7 R0403-5 R0406-2
R109-89 R2809 R3433
PRIORITY: MANDATORY
RATIONALE: CONVOY COMMANDER, COMMAND AND CONTROL, OMI CALLOUTS.

1. DESCRIPTION: CONVOY COMMANDER NET

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,26-28	T		MCC FD CONSOLE
T2	7,26,27, 28	M		MCC LSO CONSOLE
T3	7,26,27, 28	T	2	MCC FOR DIST.
T4	26,27,28	T	4	MCC MER MGR CONSOLE

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 278248
ITEM NUMBER: T76.1T

COMM CONTACT: JSC/KEN JONES/281 483-7671

NOTE 1: SEE LLS2700, ITEM K51GTX, DBR 208463, FOR TIMES CIRCUITS ARE ESTABLISHED AND RELEASED.
NOTE 2: JSC REQUIRES TALK CAPABILITY POST LANDING OPS THRU CREW EGRESS (MCC REMOTE KEYING AT DFRC, AND WSMR VIA GSFC/KSC).

NOTE 3: SEE LLS2700, ITEM K49EGTZ, DBR 184463, FOR TIMES CIRCUITS ARE ESTABLISHED AND RELEASED.
NOTE 4: TALK CAPABILITY ONLY AUTHORIZED AFTER THE JSC FLT DIR HAS HANDED-OVER CONTROL OF THE ORBITER TO THE CONVOY COMMANDER.

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/31/04
RESPONSE TRACKING: Z0403-6 Z26212 Z28104 Z3422 Z3819 Z3974

[PRD] DATABASE RECORD: 290810 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/03/92
INITIAL DATE: 08/21/89
ITEM NUMBER: E76.2E DATE LAST CHANGED: 02/12/07
SECTION: 2750 TIME LAST CHANGED: 07:35:02

REQUESTER: ER
SUBREQUESTER: DDMS JSC KSC KSC/PH-L SOC
TEST CODE: CKT71 S0027.001 STSALL WSSH

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
TRACKING NO. COMREV05 KING2001 L2727 L2830 L4503 MK98 R109-89 R26272 R2809 R3433
PRIORITY: REQUIRED
RATIONALE: BACKUP - OIS 135 AND BLACK PHONE.

1. DESCRIPTION: CONVOY COMMANDER NET (L-2 HOURS)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 290810
ITEM NUMBER: E76.2E

RESPONSIBLE AGENCY: ER

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,27	T		WSMR BLDG. 300 EXTEND TO WSSH WOCC AREA FOR DISTRIBUTION.
D2	7,26,27,28	T		CCAFS, PAFB, DOD SOC
K3	7,27	M		BLDG 300 WSMR REP

PRIME: KSC/PH-L/LOU GARCIA/321 861-6196
TECHNICAL CONTACT: ER/MIKE GAWEL/321 853-8118
KSC/USK-426/MIKE KUTA/321 861-3890

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/04/92
RESPONSE TRACKING: Z26205 Z2746 Z3422 Z4518 Z8104

[PRD] DATABASE RECORD: 16232 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/28/05
INITIAL DATE: 08/06/90
ITEM NUMBER: K76.2.1Z DATE LAST CHANGED: 04/03/07
SECTION: 2750 TIME LAST CHANGED: 12:22:50

REQUESTER: KSC
SUBREQUESTER: JSC JSC/MG KSC KSC/PH-L
TEST CODE: CKT71 STSALL WSSH

ASSOCIATED DOC: 20007S 20027S 25044S
TRACKING NO. A4501 COMREV05 DB98 KING2001 L201-2
L2678 L2830 R0501-1 R0504-8 R109-89
R26272 R3514
PRIORITY: MANDATORY
RATIONALE: CONVOY COMMANDER, COMMAND AND CONTROL, OMI CALLOUTS.

1. DESCRIPTION: CONVOY COMMANDER NET (COMMAND 025F)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 16232
ITEM NUMBER: K76.2.1Z

RESPONSIBLE AGENCY: WSTF

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,27	T		EXTEND TO WSSH OIS FOR DIST.

POC: WSTF/ROBERT MITCHELL/505 524-5774
TECHNICAL CONTACT: KSC/PH-L/LOU GARCIA/321 861-6196
KSC/USK-426/MIKE KUTA/321 861-3980

COMM CONTACT: WSTF/ZIGGY ZAPEN/505 524-5556

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/15/05
RESPONSE TRACKING: Z0504-5 Z26203 Z2705 Z28104 Z3569

[PRD] DATABASE RECORD: 576075 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/06/05
INITIAL DATE: 03/09/04
ITEM NUMBER: GX76.3G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:28

REQUESTER: GSFC DFRC
SUBREQUESTER: KSC/PH-L
TEST CODE: STSALL SUPSIM WSSH

ASSOCIATED DOC: 20007S 20026S 20027S 25044S
TRACKING NO. COMREV05 L04-3-2 R0403-5 R0405-1
PRIORITY: MANDATORY
RATIONALE: CONVOY COMMANDER

1. DESCRIPTION: CONVOY COMMAND NET

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 576075
ITEM NUMBER: GX76.3G

T1	7,27,28	T	1	GSFC FOR DISTRIBUTION
T2	7,26	T	1	EXT. TO DFRC
T3	7,27	T	1	EXT. TO WSC/WSSH

NOTE 1: JSC REQUIRES TALK CAPABILITY POST LANDING OPS THRU CREW EGRESS (MCC REMOTE KEYING AT DFRC, KSC, AND WSSH).

PRIME: KSC/PH-L/DENNY GAGEN/321 861-9301

COMM CONTACT: GSFC/AL DUANY/301 286-2721

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/06/05
RESPONSE TRACKING: Z0501-1

[PRD] DATABASE RECORD: 285604 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/04/04
INITIAL DATE: 11/12/91
ITEM NUMBER: X76.3.1X DATE LAST CHANGED: 03/20/07
SECTION: 2750 TIME LAST CHANGED: 08:57:52

REQUESTER: DFRC
SUBREQUESTER: JSC KSC KSC/PH-L NASA HQ
TEST CODE: CKT71 EAFB STSALL SUPSIM

ASSOCIATED DOC: 20007S 20026S
TRACKING NO. COMREV05 DB98 KING2001 L04-5-4 L111-10
L2604 L2655 L4419 R0406-2 R109-89
R2809
PRIORITY: MANDATORY
RATIONALE: CONVOY COMMANDER, COMMAND AND CONTROL, OMI CALLOUTS.

1. DESCRIPTION: CONVOY COMMANDER NET

RESPONSIBLE AGENCY: DFRC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 285604
ITEM NUMBER: X76.3.1X

K1	7,26	T	1	DCC FOR DISTRIBUTION
K2	7,26	T	2	SPA, OIS-04
K3	7,26	T	2	GROUND OPS TEAM AT EAFB
K4	7,26	T		DFRC CONTROL ROOM, GOM CONSOLE
Y5	7,26	M		DFRC CONTROL ROOM, NASA HQ. LANDING OPS REP.
T6	7,26	M		PRODUCER, BLDG. 4800
T7	7,26	M		DIRECTOR, BLDG. 4800
T8	7,26	M		TV OPS. MGR., BLDG. 4800
T9	7,26	M		TECH DIR, B-4800 RM 2022
T10	7,26	M		AUDIO ENGR., B-4800 RM 2022
T11	7,26	M		EMSS CONSOLE B-4800, RM. 3018
T12	26	M		DFRC, TV CONTROL RM

POC: DFRC/GEORGE GRIMSHAW/661 276-3425

PRIME: KSC/PH-L/DEAN SCHAAF/321 861-9311
TECH CONTACT: KSC/USK-426/MIKE KUTA//321 861-3890

NOTE 1: SEE LLS2700, ITEM K51GTX, DBR 208463, FOR TIMES CIRCUITS ARE ESTABLISHED AND RELEASED.
NOTE 2: COMMUNICATIONS WITH GROUND OPS TEAM ON RUNWAY IS BY RADIO TRANSMISSION.

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/04/04
RESPONSE TRACKING: Z26201 Z4460

[PRD] DATABASE RECORD: 319131 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/31/04
INITIAL DATE: 09/23/88
ITEM NUMBER: KGT77K DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 07:56:04

REQUESTER: KSC GSFC JSC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 319131
ITEM NUMBER: KGT77K

SUBREQUESTER: JSC/MG KSC/PH-L
TEST CODE: CKT72 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
TRACKING NO. COMREV05 DB98 KING2001 L04-3-2 L04-5-4
L2604 L2678 L4625 L4718 R0403-5
R0406-2 R109-89 R2809
PRIORITY: MANDATORY
RATIONALE: SAFETY REQUIREMENT FOR COOLING OF ORBITER.

1. DESCRIPTION: COOLING NET

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,26,27,28	T	1	FR CONSOLES
T2	7,26,27,28	T	2	CDSC FOR EXT. TO JSC
T3	7,26,27,28	T		CDSC FOR EXT TO GSFC

NOTE 1: SEE LLS2700 ITEM K51GTX DBR 208463 OR ITEM K49EGTZ
DBR 184463 FOR TIMES CIRCUITS ARE ESTABLISHED AND RELEASED.
NOTE 2: JSC REQUIRES TALK CAPABILITY POST LANDING OPS THRU CREW
EGRESS (MCC REMOTE KEYING AT DFRC, AND WSMR VIA GSFC/KSC).

PRIME: KSC/PH-L/DENNY GAGEN/321 861-9301

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/31/04
RESPONSE TRACKING: Z2730 Z4634 Z4718

[PRD] DATABASE RECORD: 236911 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/31/04
INITIAL DATE: 10/31/88
ITEM NUMBER: T77.1T DATE LAST CHANGED: 04/27/06

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 236911
ITEM NUMBER: T77.1T

SECTION: 2750 TIME LAST CHANGED: 07:30:12

REQUESTER: JSC
SUBREQUESTER: JSC/MG KSC/PH-L
TEST CODE: CKT72 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
TRACKING NO. A5502 COMREV05 DB98 KING2001 L04-3-2
L04-5-4 L109-5 L2604 L2678 L2711
L6805 R0403-5 R0406-2 R109-89 R2809
R4406 SHAW94
PRIORITY: MANDATORY
RATIONALE: SAFETY REQUIREMENT FOR COOLING OF ORBITER.

1. DESCRIPTION: COOLING NET

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,26,27,28	T		MCC FD CONSOLE
T2	7,26,27,28	T		MCC FOR DISTRIBUTION

COMM CONTACT: JSC/DV/KEN JONES/281 483-7671

NOTE 1: SEE LLS2700, ITEM K51GTX, DBR 208463, FOR TIMES CIRCUITS ARE ESTABLISHED AND RELEASED.
NOTE 2: JSC REQUIRES TALK CAPABILITY POST LANDING OPS THRU CREW EGRESS (MCC REMOTE KEYING AT DFRC, AND WSSH VIA GSFC/KSC).

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/31/04
RESPONSE TRACKING: Z0403-6 Z26212 Z2735 Z4404 Z6406

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 576096 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/06/05
INITIAL DATE: 03/11/04
ITEM NUMBER: GX77.2G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:28

REQUESTER: GSFC DFRC
SUBREQUESTER: JSC/MG KSC/PH-L
TEST CODE: STSALL SUPSIM WSSH

ASSOCIATED DOC: 20007S 20026S 25044S
TRACKING NO. COMREV05 L04-3-2 R0403-5 R0501-1
PRIORITY: MANDATORY
RATIONALE: SAFETY REQUIREMENT FOR COOLING OF ORBITER.

1. DESCRIPTION: COOLING NET

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,26	T		GSFC FOR DISTRIBUTION
T2	7,26	T	1	EXT. TO DFRC
T3	7,26	T		EXT TO WSC/WSSH

COMM CONTACT: GSFC/AL DUANY/301 286-2721

NOTE 1: JSC REQUIRES TALK CAPABILITY POST LANDING OPS THRU CREW EGRESS (MCC REMOTE KEYING AT DFRC, KSC, & WSSH).

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/06/05
RESPONSE TRACKING: Z0501-1

[PRD] DATABASE RECORD: 242224 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/04/04
INITIAL DATE: 08/06/90
ITEM NUMBER: X77.2.1X DATE LAST CHANGED: 03/20/07
SECTION: 2750 TIME LAST CHANGED: 08:59:04

REQUESTER: DFRC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 242224
ITEM NUMBER: X77.2.1X

SUBREQUESTER: JSC KSC KSC/PH-L
TEST CODE: CKT72 EAFB STSALL

ASSOCIATED DOC: 20007S 20026S
TRACKING NO. A5502 COMREV05 DB98 KING2001 L04-5-4
R0406-2 R109-89 R3514
PRIORITY: MANDATORY
RATIONALE: SAFETY REQUIREMENT FOR COOLING OF ORBITER.

1. DESCRIPTION: COOLING NET

RESPONSIBLE AGENCY: DFRC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,26	T	1	BTCF FOR DISTRIBUTION
K2	7,26	T	2	SPA, OIS-03
K3	7,26	T	2	GROUND OPS TEAM AT EAFB
K4	7,26	T		DFRC CONTROL ROOM, GOM CONSOLE
T5	7,26	M		JSC TV PRODUCER
T6	7,26	M		JSC TV DIRECTOR
T7	7,26	M		TV PROGRAM REPRESENTATIVE

POC: DFRC/GEORGE GRIMSHAW/661 276-3425

PRIME: KSC/PH-L/DEAN SCHAAF/321 861-9311
TECHNICAL CONTACT: KSC/USK-426/MIKE KUTA/321 861-3890

NOTE 1: SEE LLS2700, ITEM K51GTX, DBR 208463, FOR TIMES CIRCUITS ARE ESTABLISHED AND RELEASED.
NOTE 2: COMMUNICATIONS WITH GROUND OPERATIONS TEAM ON RUNWAY IS VIA RADIO TRANSMISSION.

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/04/04

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 242224
ITEM NUMBER: X77.2.1X

RESPONSE TRACKING: Z3569

[PRD] DATABASE RECORD: 579315 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/08/05
INITIAL DATE: 03/08/05
ITEM NUMBER: K77.2.2GZ DATE LAST CHANGED: 04/04/07
SECTION: 2750 TIME LAST CHANGED: 07:13:02

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S 25044S
TRACKING NO. COMREV05 R0501-1

1. DESCRIPTION: COOLING NET

RESPONSIBLE AGENCY: WSTF

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1K	27	T	1	EXTEND TO WSSH OIS FOR DIST.

POC: WSTF/ROBERT MITCHELL/505 524-5774
PRIME: KSC/PH-L/LOU GARCIA/321 861-6196

COMM CONTATCT: WSTF/ZIGGY ZAPEN/505 524-5556

NOTE 1: EXTENDED FOR A WSSH LANDING.

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/08/05
RESPONSE TRACKING: Z0505-3

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
SUBSUPPLIER: WSC/WSGT WSMR WSTF

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 579315
ITEM NUMBER: K77.2.2GZ

RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/08/05

[PRD] DATABASE RECORD: 207811 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/06/05
INITIAL DATE: 09/23/88
ITEM NUMBER: KGT78K DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 07:56:53

REQUESTER: KSC GSFC JSC
SUBREQUESTER: JSC/MG KSC/PH-L
TEST CODE: CKT114 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
TRACKING NO. COMREV05 DB98 KING2001 L04-4-1 L05-6-2
L114-1 L2604 L2678 R0404-4 R109-89
R2809
PRIORITY: MANDATORY
RATIONALE: MANDATORY COMMUNICATIONS BETWEEN KSC AND PURGE CREWS.

1. DESCRIPTION: PURGE NET

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,26,27,28	T		FR CONSOLES
T2	7,26,27,28	M	1,2	CDSC FOR EXTENSION TO JSC
G3	7,26,27,28	T	2	EXT TO GSFC

TECH CONTACT: KSC/PH-L/DENNY GAGEN/321 861-9301

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

NOTE 1: SEE LLS2700, ITEM K51GTX, DBR 208463 OR ITEM K49EGTZ, DBR 184463, FOR TIMES CIRCUIT IS ESTABLISHED AND RELEASED AT DFRC AND WSSH.

CONTINUED

[PRD] DATABASE RECORD: 207811
ITEM NUMBER: KGT78K

NOTE 2: CIRCUIT IS SET UP FOR PTT TONE KEYING

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/06/05
RESPONSE TRACKING: Z2730

[PRD] DATABASE RECORD: 273511 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/06/05
INITIAL DATE: 02/05/91
ITEM NUMBER: T78.1T DATE LAST CHANGED: 04/27/06
SECTION: 2750 TIME LAST CHANGED: 07:39:43

REQUESTER: JSC
SUBREQUESTER: JSC/MG KSC/PH-L
TEST CODE: CKT114 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20026S 20027S 20028S 25044S
TRACKING NO. A5503 COMREV05 DB98 KING2001 L04-4-1 L05-6-2 L102-2 L114-1 L204-13 L2604 L2678 L3902 L412-1 L4942 L6306 L908-7 R0404-4 R0501-1 R0504-8 R109-89 R2809 R3410 R6308
PRIORITY: MANDATORY
RATIONALE: MANDATORY COMMUNICATIONS BETWEEN KSC AND PURGE CREWS.

1. DESCRIPTION: PURGE NET

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,26,27,28	M		MCC FD CONSOLE
T2	7,26,27,28	M		MCC FOR DISTRIBUTION
T3	7,26,27,28	M		MCC EXTEND TO MER

COMM CONTACT: JSC/KEN JONES/281 483-7671

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 273511
ITEM NUMBER: T78.1T

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/06/05
RESPONSE TRACKING: Z0404-4 Z26212 Z3404 Z3941 Z4944
Z6310

[PRD] DATABASE RECORD: 16332 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/28/05
INITIAL DATE: 11/15/88
ITEM NUMBER: GX78.2G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:14

REQUESTER: GSFC DFRC
SUBREQUESTER: JSC/MG KSC/PH-L
TEST CODE: CKT114 STSALL WSSH

ASSOCIATED DOC: 20007S 20027S 25044S
TRACKING NO. COMREV05 L04-4-1 L2678 L2732 L6306
R0404-4 R0501-1 R109-89

1. DESCRIPTION: PURGE NET

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,27	T		EXTEND FROM WSC/WSSH
T2	7,27	T	1	EXTEND TO DFRC

COMM CONTACT: GSFC/AL DUANY/301 286-2721

NOTE 1: SEE LLS 2700, ITEM K51GTX, DBR 208463, FOR TIMES CIRCUITS ARE ESTABLISHED AND RELEASED.

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 16332
ITEM NUMBER: GX78.2G

RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/28/05
RESPONSE TRACKING: Z0404-8 Z0501-1 Z2752 Z7101

[PRD] DATABASE RECORD: 16333 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/28/05
INITIAL DATE: 08/14/89
ITEM NUMBER: K78.2.1Z DATE LAST CHANGED: 04/03/07
SECTION: 2750 TIME LAST CHANGED: 12:26:53

REQUESTER: KSC
SUBREQUESTER: JSC/MG KSC/PH-L
TEST CODE: CKT114 STSALL WSSH

ASSOCIATED DOC: 20007S 20027S
TRACKING NO. COMREV05 DB98 KING2001 L2678 L908-7
R0501-1 R0504-8 R109-89 R3410
PRIORITY: REQUIRED
RATIONALE: TERTIARY LANDING SITE. BECOMES MANDATORY FOR LANDING AT WSSH.

1. DESCRIPTION: PURGE NET

RESPONSIBLE AGENCY: WSTF

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1T	7,27	T		EXTEND TO WSSH OIS FOR DIST.

POC: WSTF/ROBERT MITCHELL/505 524-5774
COMM CONTACT: WSTF/ZIGGY ZAPEN/505 524-5556

PRIME: KSC/PH-L/LOU GARCIA/321 861-6196
TECH CONTACT: KSC/USK-426/MIKE KUTA/321 861-3890

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/15/05

CONTINUED

[PRD] DATABASE RECORD: 16333
ITEM NUMBER: K78.2.1Z

RESPONSE TRACKING: Z0504-5 Z2705 Z3404

[PRD] DATABASE RECORD: 236802
DOCUMENT ID: LLS
ITEM NUMBER: X78.2.2X
SECTION: 2750

REQUIREMENT STATUS: APPROVED
APPROVAL DATE: 08/26/88
INITIAL DATE: 08/26/88
DATE LAST CHANGED: 03/20/07
TIME LAST CHANGED: 09:41:49

REQUESTER: DFRC
SUBREQUESTER: JSC/MG KSC/PH-L
TEST CODE: CKT114 EAFB STSALL

ASSOCIATED DOC: 20007S 20026S
TRACKING NO. COMREV05 DB98 KING2001 L2604 L2655
R109-89 R2809
PRIORITY: MANDATORY
RATIONALE: MANDATORY COMMUNICATIONS BETWEEN KSC AND PURGE CREWS.

1. DESCRIPTION: PURGE NET

RESPONSIBLE AGENCY: DFRC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,26	T	1	DCC FOR DISTRIBUTION
K2	7,26	T		DFRC CONTROL ROOM, GOM CONSOLE
K3	7,26	T		SPA OIS-A, CHANNEL 6
K4	7,26	T	2	GROUND OPERATIONS TEAM AT EAFB
T5	7,26	M		TV PRODUCER - DFRC TV
T6	7,26	M		TV DIRECTOR - DFRC TV

POC: DFRC/GEORGE GRIMSHAW/661 276-3425
PRIME: KSC/PH-L/DEAN SCHAAF/321 861-9311
TECH CONTACT: KSC/USK-426/MIKE KUTA/321 861-3980

NOTE 1: SEE LLS2700, ITEM K51GTX, DBR 208463, FOR TIMES CIRCUIT ARE ESTABLISHED AND RELEASED.
NOTE 2: VIA RADIO TRANSMISSION

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 236802
ITEM NUMBER: X78.2.2X

SUBSUPPLIER: OS
RESPONDER: JOE D'AGOSTINO/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/26/88
RESPONSE TRACKING: Z26201

[PRD] DATABASE RECORD: 176633 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/14/89
INITIAL DATE: 08/14/89
ITEM NUMBER: E78.2.3E DATE LAST CHANGED: 04/27/06
SECTION: 2750 TIME LAST CHANGED: 07:46:01

REQUESTER: ER
SUBREQUESTER: JSC/MG KSC/PH-L
TEST CODE: CKT114 STSALL WSSH

ASSOCIATED DOC: 20007S 20027S
TRACKING NO. COMREV05 KING2001 L2604 L2727 MK98
R109-89 R3410
PRIORITY: REQUIRED
RATIONALE: ALTERNATE COMMUNICATION SOURCE AVAILABLE.

1. DESCRIPTION: PURGE NET (T-4 HOURS)

RESPONSIBLE AGENCY: ER

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,27	T	1	EXTEND-WSMR BLDG 300 TO WSSH OCC
T2	7,27	M	1	EXTEND-WSMR BLDG 300 TO WSSH OCC

POC: ER/MIKE GAWEL/321 853-8118
TECHNICAL CONTACT: KSC/PH-L/LOU GARCIA/321 861-6196
KSC/USK-426/MIKE KUTA/321 861-3890

NOTE 1: SEE LLS2700, ITEM K48Z, DBR 333453 AND ITEM K49EGTZ,
DBR 184463, FOR TIMES CIRCUITS ARE ESTABLISHED & RELEASED.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 176633
ITEM NUMBER: E78.2.3E

SUBSUPPLIER: WSMR
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/14/89
RESPONSE TRACKING: Z2746 Z3404

[PRD] DATABASE RECORD: 234627 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/15/04
INITIAL DATE: 08/21/89
ITEM NUMBER: TGKX79T DATE LAST CHANGED: 04/27/06
SECTION: 2750 TIME LAST CHANGED: 08:04:38

REQUESTER: JSC GSFC KSC
DFRC
SUBREQUESTER: JSC/MG KSC/PH-L SOC
TEST CODE: CKT92 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20017S 20026S 20027S
20028S MODE8
TRACKING NO. A5502 COMREV05 DB98 KING2001 L04-6-1
L2604 L2678 L4601 R0406-3 R109-89
R2657 R2809 R3433
PRIORITY: MANDATORY
RATIONALE: LANDING FIELD COMMAND AND CONTROL. HEAVILY USED AND DEDICATED.

1. DESCRIPTION: LANDING FIELD PRIME-1 (LFP-1)

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,26,27, 28, MODE8	T	1	MCC DISTRIBUTION
DT2	7,17,26,27, 28,MODE8	T	2	EXTENDED TO KSC
T3	7,27	T		EXTEND TO GSFC
K4	7,27	T		EXTEND TO GSFC/WSC-WSMR
T5	7,26	T	2	EXTEND TO DFRC
T6	7	T	2	EXTEND TO GSFC/TAL

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 234627
ITEM NUMBER: TGKX79T

X7 7,26 T EXTEND TO DFRC/EAFB

POC: KSC/PH-L/TE MOSTELLER/321 867-9307
COMM CONTACT: JSC/KEN JONES/281 483-7671

NOTE 1: FOR A DECLARED ALS/ELS LANDING AT A DOD SITE, AND FOR TAL LANDING THIS LOOP MAY ALSO BE PATCHED TO THE ALS/ELS. FLIGHT CONTROL TEAM MEMBERS REQUIRING COMMUNICATION WITH THE ALS/ELS MAY REQUEST PATCHING FROM THE LANDING SUPPORT OFFICER (LSO).

NOTE 2: DFRC, WSSH/VIA GSFC, AND KSC CONFERENCED ON THIS LINE BY THE MCC HOUSTON VOICE.

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/15/04
RESPONSE TRACKING: Z0406-3 Z26121 Z3422 Z4618

[PRD] DATABASE RECORD: 318806 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/02/94
INITIAL DATE: 04/12/91
ITEM NUMBER: KE79.1K DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 07:58:17

REQUESTER: KSC ER
SUBREQUESTER: FR1/3/4 KSC/MK-SIO KSC/PH-L OMR1/3/4
OSR1/3/4 SOC
TEST CODE: CKT92 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20017S 20026S 20027S
20028S MODE8
TRACKING NO. A5502 COMREV05 DB98 KING2001 L2604
L3405 L3916 L4601 R109-89 R2809
R3433 R6522 SHAW94
PRIORITY: MANDATORY
RATIONALE: LANDING FIELD COMMAND AND CONTROL HEAVILY USED AND DEDICATED.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 318806
ITEM NUMBER: KE79.1K

1. DESCRIPTION: LANDING FIELD PRIME-1 (LFP-1)

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,17,26,27, 28,MODE8	T		EXT TO CDSC FOR DISTRIBUTION
K2	7,17,26,27, 28,MODE8	T		CDSC FOR DISTRIBUTION
T3	7,17,26,27, 28,MODE8	T		EXTEND TO CCAFS X-Y BUILDING
T4	7,17,26,27 28	T		LCC BIOMED, CONSOLES AC-4 FR1/3/4
T5	7,17,26,27 28	T		LCC LRD, CONSOLE AB-8 FR1/3/4
T6	28	T		SHUTTLE PROCESSING DIRECTOR
				OSR1/3/4
Y7				ALL POS REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257
				OMR1/3/4
Y8				ALL POS REF SEC 3020 ITEM DHKTY1.1.2K, DBR 024268

PRIME: KSC/PH-L/TED MOSTELLER/321 861-9307

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

NOTE 1: LANDING FIELD "PRIME-2" MUST BE SUBSTITUTED
IF "PRIME-1" FAILS.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/02/94

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 318806
ITEM NUMBER: KE79.1K

RESPONSE TRACKING: Z3422 Z3447 Z3953 Z4627 Z6509

[PRD] DATABASE RECORD: 293963
DOCUMENT ID: LLS
ITEM NUMBER: E79.1.1E
SECTION: 2750

REQUIREMENT STATUS: APPROVED
APPROVAL DATE: 06/27/95
INITIAL DATE: 02/07/90
DATE LAST CHANGED: 12/18/06
TIME LAST CHANGED: 11:35:45

REQUESTER: ER
SUBREQUESTER: DDMS JSC/MG KSC/PH-L KSC/TA-E
SOC
TEST CODE: CKT92 EAFB L-1DAY RTLS
S0027.001 STSALL SUPSIM WSSH

ASSOCIATED DOC: 20007S 20017S 20026S 20027S
20028S MODE8
TRACKING NO. A5502 COMREV05 KING2001 L2604 L2678
L2707 L2727 L3624 L4601 MK98
R109-89 R26184 R26219 R2809 R3433
R4218 RSRR 8804 SHAW95
PRIORITY: REQUIRED
RATIONALE: STATUS OF LANDING FIELD (NAVAIDS, ETC.) BACKUP - LFP-2, OIS-135

1. DESCRIPTION: LANDING FIELD PRIME-1 (LFP-1)(L-2 HOURS)

RESPONSIBLE AGENCY: ER

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
DT1	7,17,26,27, 28,MODE8	T	1	CCAFS,LRCC,PAFB DOD SOC CONSOLES
T2	7,17,26, 27,28	T		CCAFS RWO
T3	7,26	T		EAFB BUILDING 1440
T4	7,27	T		WSMR RCC, KING-1
T5	7,27	T		EXT TO WSSH OCC AREA FOR DIST.
K6	7,27	T		EXT TO WSSH OCC AREA FOR DISTRIBUTION

CONTINUED

[PRD] DATABASE RECORD: 293963
ITEM NUMBER: E79.1.1E

T7	7,26	T	EAFB WEATHER FORECAST FACILITY
D8	7,27	T	EXT TO WSSH OCC AREA FOR DIST.
K9	7,26,27, 28,MODE8	M	CCAFS,LRCC NASA PROJECT. CONS

NOTE 1: TERMINATION USED FOR MONITORING THE STATUS OF PRIMARY/ SECONDARY/BACKUP AIRFIELDS.

POC: KSC/TA-E/BILL HAASE/321 853-9163
TECHNICAL CONTACT: ER/MIKE GAWEL/321 853-8118
KSC/PH-L/DENNY GAGEN/321 861-9311
KSC/USK-426/MIKE KUTA/321 861-3890

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB ER WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/22/95
RESPONSE TRACKING: Z26113 Z2708 Z2746 Z3422 Z3621
Z4225 Z4626 Z6923

[PRD] DATABASE RECORD: 296341 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/15/05
INITIAL DATE: 08/21/89
ITEM NUMBER: G79.2G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:22

REQUESTER: GSFC
SUBREQUESTER: JSC/MG KSC/PH-L
TEST CODE: CKT92 STSALL SUPSIM WSSH

ASSOCIATED DOC: 20007S 20027S
TRACKING NO. A5502 COMREV05 L04-6-1 L2604 L2678
L908-7 R0406-3 R0501-1 R0504-8 R109-89
R3433 R6101 R8703

1. DESCRIPTION: LANDING FIELD PRIME-1 (LFP-1)

RESPONSIBLE AGENCY: GSFC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 296341
ITEM NUMBER: G79.2G

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,27	T	1	EXTEND TO WSSH/WSMR VIA WSC

COMM CONTACT: GSFC/AL DUANY/301 286-2721

NOTE 1: DFRC, WSSH/VIA GSFC, AND KSC CONFERENCED ON THIS LINE BY THE MCC HOUSTON VOICE. THIS IS A SHARED CIRCUIT WITH CRANE OPS. LANDING FIELD-1 WILL ACTIVATE DAY OF LAUNCH AND REMAIN ACTIVE UNTIL L+6 HOURS.

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/15/05
RESPONSE TRACKING: Z0501-1 Z2750 Z3422 Z6101 Z8704

[PRD] DATABASE RECORD: 16327 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/15/05
INITIAL DATE: 08/21/89
ITEM NUMBER: K79.2.1Z DATE LAST CHANGED: 04/03/07
SECTION: 2750 TIME LAST CHANGED: 12:25:11

REQUESTER: KSC
SUBREQUESTER: JSC/MG KSC/PH-L
TEST CODE: CKT92 STSALL WSSH

ASSOCIATED DOC: 20007S 20027S
TRACKING NO. COMREV05 DB98 KING2001 L2678 L908-7
R0501-1 R0504-8 R109-89 R3433
PRIORITY: MANDATORY
RATIONALE: LANDING FIELD COMMAND AND CONTROL. HEAVILY USED AND DEDICATED.

1. DESCRIPTION: LANDING FIELD PRIME-1 (LFP-1)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 16327
ITEM NUMBER: K79.2.1Z

RESPONSIBLE AGENCY: WSTF

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,27	T	1	EXT TO WSSH OIS FOR DIST.

POC: WSFT/ROBERT MITCHELL/505 524-5774

TECHNICAL CONTACT: KSC/PH-L/LOU GARCIA/321 861-6196
KSC/USK-426/MIKE KUTA/321 861-3980

COMM CONTACT: WSTF/ZIGGY ZAPEN/505 524-5556

NOTE 1: THIS IS A SHARED CIRCUIT WITH CRANE OPS. LANDING FIELD-1 WILL ACTIVATE DAY OF LAUNCH AND REMAIN ACTIVATED UNTIL L+24 HOURS.

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/15/05
RESPONSE TRACKING: Z0504-5 Z2705 Z3422

[PRD] DATABASE RECORD: 304968 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/17/88
INITIAL DATE: 05/17/88
ITEM NUMBER: X79.3X DATE LAST CHANGED: 03/20/07
SECTION: 2750 TIME LAST CHANGED: 10:28:49

REQUESTER: DFRC
SUBREQUESTER: JSC/MG KSC/PH-L
TEST CODE: CKT92 EAFB STSALL SUPSIM

ASSOCIATED DOC: 20007S 20026S
TRACKING NO. COMREV05 DB98 KING2001 L04-6-1 R0406-3
PRIORITY: MANDATORY
RATIONALE: LANDING FIELD COMMAND AND CONTROL. HEAVILY USED AND

CONTINUED

[PRD] DATABASE RECORD: 304968
ITEM NUMBER: X79.3X

DEDICATED.

1. DESCRIPTION: LANDING FIELD PRIME-1 (LFP-1)

RESPONSIBLE AGENCY: DFRC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,26	T		DCC FOR DISTRIBUTION
K2	7,26	T		GROUND OPS (GOM) MANAGER'S CONSOLE
T3	7,26	T		OPS MANAGER'S CONSOLE
T4	7,26	M		PROGRAM REPRESENTATIVE, DRYDEN TV
T5	7,26	M		TECHNICAL DIRECTOR, DRYDEN TV
T6	7,26	M		PAO CONSOLE, BLDG. 4800
T7	7,26	T		EMSS COORDINATOR, BLDG. 4800
T8	7,26	T		PRODUCER, BLDG. 4800
T9	7,26	T		DIRECTOR, BLDG. 4800
T10	7,26	T		TV OPTNS MGR., BLDG. 4800
T11	7,26	T		CONTROL ROOM COMMENTATOR
T12	7,26	M		DFRC REP. CONS. B-4800 SPA 07

POC: DFRC/GEORGE GRIMSHAW/661 276-3425

PRIME: KSC/PH-L/DEAN SCHAAF/321 861-9311
TECHNICAL CONTACT: KSC/USK-426/MIKE KUTA/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/17/88

[PRD] DATABASE RECORD: 183631 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/24/92
INITIAL DATE: 11/13/90
ITEM NUMBER: TGHKX80T DATE LAST CHANGED: 04/27/06
SECTION: 2750 TIME LAST CHANGED: 08:15:33

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 183631
ITEM NUMBER: TGHKX80T

REQUESTER:	JSC	GSFC	MSFC	
	KSC	DFRC		
SUBREQUESTER:	JSC/MG	MS026	SOC	
TEST CODE:	CKT93	EAFB	STSALL	SUPSIM

ASSOCIATED DOC:	20007S	20017S	20026S	20027S	
	20028S	MODE8			
TRACKING NO.	A5502	COMREV05	KING2001	L04-6-1	L2604
	L2678	L3857	L4601	L908-7	R0406-3
	R109-89	R2657	R2809	R3410	
PRIORITY:	REQUIRED				
RATIONALE:	MISSION SUPPORT				

1. DESCRIPTION: LANDING FIELD PRIME-2 (LFP-2)

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,26,27, 28,MODE8	T	1	MCC DISTRIBUTION
DT2	7,17,26, 27,28,MODE8	T	2	EXTENDED TO KSC
T3	7,26	T	2	EXTEND TO DFRC/EAFB
T4	7,27	T	2	EXTEND TO GSFC
H5	7	T		EXTEND TO MSFC

COMM CONTACT: JSC/KEN JONES/281 483-7671

NOTE 1: FOR A DECLARED ALS/ELS LANDING AT A DOD SITE THIS LOOP MAY ALSO BE PATCHED TO THE ALS/ELS. FLIGHT CONTROL TEAM MEMBERS REQUIRING COMMUNICATION WITH THE ALS/ELS MAY REQUEST PATCHING FROM THE USA.

NOTE 2: DFRC, WSSH/VIA GSFC, AND KSC CONFERENCED ON THIS LINE BY THE JSC VOICE CONTROLLER.

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 183631
ITEM NUMBER: TGHKX80T

RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/22/92
RESPONSE TRACKING: Z26212 Z3404 Z3883 Z4618

[PRD] DATABASE RECORD: 212817 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/02/94
INITIAL DATE: 10/24/89
ITEM NUMBER: KE80.1K DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 07:59:51

REQUESTER: KSC ER
SUBREQUESTER: FR1/3/4 KSC/PH-L SOC
TEST CODE: CKT93 LRD STSALL

ASSOCIATED DOC: 20007S 20017S 20026S 20027S
20028S MODE8
TRACKING NO. A5502 COMREV05 DB98 KING2001 L2604
L3305 L3405 L4601 R109-89 R2809
R3433 R6522 SHAW94
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: LANDING FIELD PRIME-2 (LFP-2)

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,17,26, 27,28,MODE8	T		CDSC FOR DISTRIBUTION
K2	7,17,26,27, 28	T		CDSC FOR DISTRIBUTION
T3	7,17,26, 27,28,MODE8	T		EXTEND TO CCAFS X-Y BUILDING
T4	7,17 26, 27,28	T		LRD CONSOLE, AB-8 FR1/3/4

PRIME: KSC/PH-L/DENNY GAGEN/321 861-9301

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 212817
ITEM NUMBER: KE80.1K

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/02/94
RESPONSE TRACKING: Z3301 Z3422 Z3447 Z4627 Z6509

[PRD] DATABASE RECORD: 309368 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/27/95
INITIAL DATE: 08/21/89
ITEM NUMBER: E80.1.1E DATE LAST CHANGED: 12/18/06
SECTION: 2750 TIME LAST CHANGED: 11:37:12

REQUESTER:	ER			
SUBREQUESTER:	JSC/MG	KSC/PH-L	KSC/TA-E	SOC
TEST CODE:	CKT93	EAFB	L-1DAY	RTLS
	S0027.001	STSALL	SUPSIM	WSSH

ASSOCIATED DOC:	20007S	20017S	20026S	20027S	20028S
	MODE8				
TRACKING NO.	A5502	COMREV05	L2604	L2607	L2727
	L4601	L4907	L908-7	R109-89	R26209
	R2809	R3410	R3433	R4218	

PRIORITY: REQUIRED
RATIONALE: BACKUP -LFP-1 AND BLACK PHONE.

1. DESCRIPTION: LANDING FIELD PRIME-2 (LFP-2) (L-2 HOURS)

RESPONSIBLE AGENCY: ER

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
D1	7,26,27, 28,MODE8	T	1	CCAFS,PAFB,DOD SOC
T2	7,17,26,27, 28	T		CCAFS RWO

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 309368
ITEM NUMBER: E80.1.1E

T3	7,26	T	BUILDING 1440, EAFB
T4	7	T	EAFB WX TEST FACILITY
K5	7,26,27,28, MODE8	M	CCAFS,LRCC,NASA PROJECT CONSOLE
T6	7,27	T	EXT TO WSMR, BLDG 300, FOR DIST
T7	7,27	T	EXT TO WSSH OCC
T8	7,27	T	EXT TO KING 1
T9	7,26,27,28	T	EXT TO MET OFFICE (C-STATION)
T10	7,26,27,28	T	CCAFS WX BLDG 1383

TECH CONTACT: ER/MIKE GAWEL/321 853-8118

NOTE 1: TERMINATION USED FOR MONITORING OF PRIMARY/SECONDARY AIRFIELD STATUS.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB ER WSMR
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/22/95
RESPONSE TRACKING: Z26112 Z2686 Z2746 Z3404 Z3422
Z4225 Z4626 Z4904 Z6923

[PRD] DATABASE RECORD: 16328 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/15/05
INITIAL DATE: 08/14/89
ITEM NUMBER: K80.1.1.2Z DATE LAST CHANGED: 04/03/07
SECTION: 2750 TIME LAST CHANGED: 12:25:50

REQUESTER: KSC
SUBREQUESTER: JSC JSC/MG KSC/PH-L
TEST CODE: CKT93 STSALL WSSH

ASSOCIATED DOC: 20007S 20027S
TRACKING NO. A5502 COMREV05 DB98 KING2001 L2678
L908-7 R0501-1 R0504-8 R109-89 R3410
PRIORITY: REQUIRED
RATIONALE: BACKUP - LFP-1.

1. DESCRIPTION: LANDING FIELD PRIME 2 (LFP-2)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 16328
ITEM NUMBER: K80.1.1.2Z

RESPONSIBLE AGENCY: WSTF

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,27	T	1	EXTEND TO WSSH OIS FOR DIST.

POC: WSTF/ROBERT MITCHELL/505 524-5774
TECHNICAL CONTACT: KSC/PH-L/LOU GARCIA/321 861-6196
KSC/USK-426/MIKE KUTA/321 861-3980

COMM CONTACT: WSTF/ZIGGY ZAPEN/505 524-5556

NOTE 1: THIS IS A SHARED CIRCUIT. PRSD WILL ACTIVATE AT HANDOVER
AND REMAIN ACTIVE UNTIL SCA LIFTOFF.

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/15/05
RESPONSE TRACKING: Z0504-5 Z2705 Z3404

[PRD] DATABASE RECORD: 228106 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/09/05
INITIAL DATE: 08/26/88
ITEM NUMBER: X80.2X DATE LAST CHANGED: 03/20/07
SECTION: 2750 TIME LAST CHANGED: 10:29:53

REQUESTER: DFRC
SUBREQUESTER: JSC/MG KSC/PH-L
TEST CODE: CKT93 EAFB STSALL

ASSOCIATED DOC: 20007S 20026S
TRACKING NO. A5502 COMREV05 DB98 KING2001 L05-2-3
L2604 L2655 R0502-4 R109-89 R2809
PRIORITY: REQUIRED
RATIONALE: LFP-1 AND BLACK PHONE.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 228106
ITEM NUMBER: X80.2X

1. DESCRIPTION: LANDING FIELD PRIME-2 (LFP-2)

RESPONSIBLE AGENCY: DFRC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,26	T		DCC FOR DISTRIBUTION
K2	7,26	T	1	GROUND OPS MANAGER (GOM) CONSOLE
T3	7,26	T		OPS MANAGER'S CONSOLE
T4	7,26	M		PAO CONSOLE, BLDG. 4800
T5	7,26	T		EMSS COORDINATOR, BLDG. 4800
X6	7,26	M		DFRC REP. CONS., BLDG. 4800
X7	7,26	T		EAFB/WX

POC: DFRC/GEORGE GRIMSHAW/661 276-3425

PRIME: KSC/PH-L/DEAN SCHAAF/321 861-9311
TECHNICAL CONTACT: KSC/MIKE KUTA/321 861-3980

NOTE 1: THE KSC GROUND OPERATIONS MANAGER IS THE ACTING A/FSC
DURING ORBITER LANDINGS AT EAFB.

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/10/05
RESPONSE TRACKING: Z0205-1 Z26201

[PRD] DATABASE RECORD: 317261 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/28/06
INITIAL DATE: 03/28/06
ITEM NUMBER: G80.3G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:23

REQUESTER: GSFC
SUBREQUESTER: JSC/MG KSC/PH-L
TEST CODE: CKT93 STSALL SUPSIM WSSH

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 317261
ITEM NUMBER: G80.3G

ASSOCIATED DOC: 20007S 20027S
TRACKING NO. COMREV05 GSFCREV06 L2604 L2678 L2729
R3410

1. DESCRIPTION: LANDING FIELD - PRIME 2 (LFP-2)

RESPONSIBLE AGENCY: GSFC

REF	TEST CODE	CAP	NOTE	TERMINATION LOCATION
T1	7,27	T	1	EXT TO WSSH/WSMR VIA WSC

COMM CONTACT: AL DUANY/301 286-2721

NOTE 1: DFRC, WSSH/VIA GSFC, AND KSC CONFERENCED ON THIS LINE BY THE MCC HOUSTON VOICE. THIS IS A SHARED CIRCUIT WITH CRANE OPS. LANDING FIELD-1 WILL ACTIVATE DAY OF LAUNCH AND REMAIN ACTIVE UNITL L+6 HOURS.

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/28/06
RESPONSE TRACKING: Z2750 Z3404

[PRD] DATABASE RECORD: 586700 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/05/06
INITIAL DATE: 05/05/06
ITEM NUMBER: H80.4H DATE LAST CHANGED: 05/11/06
SECTION: 2750 TIME LAST CHANGED: 09:27:02

REQUESTER: MSFC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05

1. DESCRIPTION: LANDING FIELD PRIME-2 (LFP-2)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 586700
ITEM NUMBER: H80.4H

RESPONSIBLE AGENCY: MSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
H1	7	T		EXT TO MSFC FOR DIST.

POC: MSFC/PHILIP CAUTHEN/256 544-4204
COMM CONTACT: MSFC/SCOTT SCHUTZENHOFER/256 544-8496

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/05/06

[PRD] DATABASE RECORD: 183838 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/31/04
INITIAL DATE: 01/16/92
ITEM NUMBER: HT81H DATE LAST CHANGED: 05/03/06
SECTION: 2750 TIME LAST CHANGED: 09:49:15

REQUESTER: MSFC JSC
SUBREQUESTER: JSC/MV
TEST CODE: CKT77 S61E16 STSALL STSR28
SUPSIM

ASSOCIATED DOC: 20007S 20008S 20009S 20014S
20017S 20037S 20044S 25009S
TRACKING NO. COMREV05 KING2001 L04-3-2 L201-3 L4210
L5714 R0403-5 R109-89 R26157 R3110

1. DESCRIPTION: ET CONFERENCE

RESPONSIBLE AGENCY: MSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,8,9,14,17	T		EXT TO KSC CDSC
T2	7,8,9,14,17	T		MSFC EXT TO JSC FOR DIST TO

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 183838
ITEM NUMBER: HT81H

37,44, MER/MPS CONSOLE
25009S

POC: MSFC/PHILIP CAUTHEN/256 544-4204
COMM CONTACT: MSFC/SCOTT SCHUTZENHOFER/256 544-8496

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/23/04
RESPONSE TRACKING: Z0404-7 Z4501 Z4911 Z5718

[PRD] DATABASE RECORD: 278922 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/23/92
INITIAL DATE: 04/12/91
ITEM NUMBER: HK81.1K DATE LAST CHANGED: 05/03/06
SECTION: 2750 TIME LAST CHANGED: 09:45:55

REQUESTER:	MSFC	KSC		
SUBREQUESTER:	ESA	FR2	JSC/B-NS	KSC/MK-SIO
	MS101	OMR1/3/4	OSR1/3/4	
TEST CODE:	CKT77	S61C04	S61E16	STSALL
	STSR28	SUPSIM		
ASSOCIATED DOC:	20007S	20008S	20009S	20014S
	20017S	20037S	20044S	25009S
TRACKING NO.	A5502	COMREV05	KING2001	L04-2-1
	L3534	L3840	L3856	L3916
	L4918	L5329	L8306	ML012-90
	R0402-1	R109-89	R26157	R26185
	R2658	R2725	R2908	R4212
	RSRR116	RSRR136		
PRIORITY:	REQUIRED			
RATIONALE:	MISSION SUPPORT			

1. DESCRIPTION: ET CONFERENCE

RESPONSIBLE AGENCY: KSC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 278922
ITEM NUMBER: HK81.1K

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,14,17,37,44	T		CDSC FOR DIST
				OSR1/3/4
Y2				ALL POS REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257
				OMR1/3/4
Y3				ALL POS REF SEC 3020 ITEM DHKTY1.1.2K, DBR 024268
				FR2
T4				ALL JSC CONS REF SEC 3020 ITEM T44.1K, DBR 024313
H5				ALL MSFC CONS REF SEC 3020 ITEM H46.1K, DBR 024286

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/23/92
RESPONSE TRACKING: Z2679 Z2908 Z3536 Z3819 Z3861
Z3882 Z3953 Z4217 Z4913 Z5323

[PRD] DATABASE RECORD: 518254
DOCUMENT ID: LLS
ITEM NUMBER: T81.1.1T
SECTION: 2750

REQUIREMENT STATUS: APPROVED
APPROVAL DATE: 03/31/04
INITIAL DATE: 01/16/92
DATE LAST CHANGED: 04/27/06
TIME LAST CHANGED: 08:37:28

REQUESTER: JSC
SUBREQUESTER: JSC/MV

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 518254
ITEM NUMBER: T81.1.1T

TEST CODE: CKT77 MER

ASSOCIATED DOC: 20007S 20008S 20009S 20014S
20017S 20037S 20044S 25009S
TRACKING NO. COMREV05 KING2001 L04-3-2 L201-3 L4210
L5714 L901-2 R0403-5 R109-89 R9310

1. DESCRIPTION: ET CONFERENCE

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,8,9,14,17,37 44,25009S	T		JSC FOR DIST (MER/MPS CONSOLE)

COMM CONTACT: JSC/DV/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/31/04
RESPONSE TRACKING: Z0403-6 Z4244 Z5718 Z9312

[PRD] DATABASE RECORD: 348429 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/22/04
INITIAL DATE: 08/20/90
ITEM NUMBER: HT82H DATE LAST CHANGED: 05/03/06
SECTION: 2750 TIME LAST CHANGED: 09:34:00

REQUESTER: MSFC JSC
SUBREQUESTER: JSC/MV
TEST CODE: CKT100 MER S61E16 STSALL
SUPSIM

ASSOCIATED DOC: 20007S 20008S 20009S 20014S
20017S 20037S 20044S
TRACKING NO. A4501 COMREV05 KING2001 L007-8 L008-5
L04-4-1 L04-6-2 L201-2 L3565 L3832
L5714 L603-6 L8501 R0404-4 R109-89

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 348429
ITEM NUMBER: HT82H

R26157 R3110 RTF114-13
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: MPS CONFERENCE

RESPONSIBLE AGENCY: MSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,8,9,14,17 37,44	T		MSFC EXT TO JSC MCC, FOR MER
H2	7,14	T		MSFC EXT MSFC STS VOICE LOOPS TO MICHOUD/LOUISIANA
H3	7,14	M		MSFC EXT MSFC STS VOICE LOOPS TO REMOTE SITES (REF LLS 2750, H3.4.6GHKT, DBR# 539431 FOR LIST OF SITES)
K4	7,14			EXT TO KSC CDSC

POC: MSFC/PHILIP CAUTHEN/256 544-4204
COMM CONTACT: MSFC/MP71/SCOTT SCHUTZENHOFER/256 544-8496

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/23/04
RESPONSE TRACKING: Z0404-6 Z114-10 Z3576 Z3582 Z3846
Z4119 Z5718 Z8505

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 22698 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/11/04
INITIAL DATE: 07/26/90
ITEM NUMBER: T82.1T DATE LAST CHANGED: 05/03/06
SECTION: 2750 TIME LAST CHANGED: 09:35:44

REQUESTER: JSC
SUBREQUESTER: JSC/MV MER
TEST CODE: CKT100 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20008S 20009S 20014S
20017S 20037S 20044S
TRACKING NO. A4501 COMREV05 L007-8 L04-4-1 L04-6-2
L201-2 L3832 L5714 R0404-4 R0406-4
R9403

1. DESCRIPTION: MPS CONFERENCE

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,8,9,14,17, 37,44	T		JSC EXT FROM MCC TO MER

TECH CONTACT: JSC/DV/RICHARD WEGENER/281 483-5977

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/11/04
RESPONSE TRACKING: Z0404-4 Z0406-4 Z3846 Z5718 Z9404

[PRD] DATABASE RECORD: 246721 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/23/92
INITIAL DATE: 04/12/91
ITEM NUMBER: KH82.2K DATE LAST CHANGED: 05/03/06
SECTION: 2750 TIME LAST CHANGED: 09:35:23

REQUESTER: KSC MSFC
SUBREQUESTER: ESA FR2 JSC/B-NS KSC/MK-SIO

CONTINUED

[PRD] DATABASE RECORD: 246721
ITEM NUMBER: KH82.2K

	MS101	OMR1/3/4	OSR1/3/4	
TEST CODE:	CKT100	S61C01	S61E16	STSALL
	STSR28	SUPSIM		

ASSOCIATED DOC:	20007S	20008S	20009S		20014S
	20017S	20037S	20044S		
TRACKING NO.	A5503	COMREV05	L04-2-1	L3534	L3621
	L3840	L3856	L3916	L4918	L5329
	M34007	ML012-90	R0402-1	R109-89	R26157
	R26185	R26263	R2658	R2715	R2725
	R2808	R2908	R4212	RSRR116	RSRR136

PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: MPS CONFERENCE

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17, 37,44	T		CDSC FOR DIST
				OSR1/3/4
Y3				ALL POS REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257
				OMR1/3/4
Y4				ALL POS REF SEC 3020 ITEM DHKTY1.1.2K, DBR 024268
				FR2
T5				ALL JSC CONS REF SEC 3020 ITEM T44.1K, DBR 024313
H6				ALL MSFC CONS REF SEC 3020

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 246721
ITEM NUMBER: KH82.2K

ITEM H46.1K, DBR 024286

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/23/92
RESPONSE TRACKING: Z26191 Z2679 Z2711 Z2818 Z2908
Z3106 Z3536 Z3861 Z3882 Z3953
Z4217 Z4913 Z5323

[PRD] DATABASE RECORD: 323526 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/21/92
INITIAL DATE: 10/13/88
ITEM NUMBER: KEH83K DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 08:01:43

REQUESTER: KSC ER MSFC
SUBREQUESTER: ESA FR1/3/4 FR2 KSC/MK-SIO
KSC/PH-L OMR1/3/4 OSR1/3/4
TEST CODE: CKT122 STSALL

ASSOCIATED DOC: 20007S 25407B MODE8
TRACKING NO. COMREV05 KING2001 L3916 L4601 L4918
R109-89 R26185 R2658 R2725 R4212
RSRR116
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: SRB RETRIEVAL OPS - CCAFS AF (HF RETRIEVAL NET)

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
KH1	7,25321, MODE8	T		CDSC FOR DISTRIBUTION
K2	MODE8	T		LRD CONSOLE, AB-8 FR1/3/4

CONTINUED

[PRD] DATABASE RECORD: 323526
ITEM NUMBER: KEH83K

H3	7,25321	M	1	EXT TO MSFC
K4	7,25321, MODE8	M		EXT TO ER

OSR1/3/4
- - - - - - - - - - - - -

Y5 ALL POS REF SEC 3020
ITEM HKTY1.1.1K, DBR 024257

OMR1/3/4
- - - - - - - - - - - - -

Y6 ALL POS REF SEC 3020
ITEM DHKTY1.1.2K, DBR 024268

FR2
- - - - - - - - - - - - - -

H7 ALL MSFC CONS REF SEC 3020
ITEM H46.1K, DBR 024286

PRIME: KSC/PH-L/DON HAMMEL/321 861-9315

TECHNICAL CONTACT: KSC/JOE CHAPUT/321 853-4032
COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

NOTE 1:
PATCH INTO ONE OF THE EXISTING OIS LONGLINES IMMEDIATELY AFTER LIFTOFF.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/24/92
RESPONSE TRACKING: Z2679 Z2908 Z3953 Z4217 Z4627
Z4913

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 326098 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/06/01
INITIAL DATE: 11/07/01
ITEM NUMBER: H83.1H DATE LAST CHANGED: 04/27/06
SECTION: 2750 TIME LAST CHANGED: 08:43:20

REQUESTER: MSFC
TEST CODE: CKT122 STSALL

ASSOCIATED DOC: 20007S 25407B
TRACKING NO. KING2001 R109-1
PRIORITY: REQUIRED
RATIONALE: STS VOICE LOOPS REQUIRED FOR COGNIZANT ENGINEER AT MSFC AND AT REMOTE LOCATIONS TO MONITOR THE PROGRESS SHUTTLE TESTING AND LAUNCH SUPPORT.

1. DESCRIPTION: SRB RETRIEVAL OPS - CCAFS HF

RESPONSIBLE AGENCY: MSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
H1	7,25407	M		HOSC FOR DISTRIBUTION

POC: PHILIP CAUTHEN/EO60/256-544-4204
COMM CONTACT: SCOTT SCHUTZENHOFER/MP71/256-544-8496

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/06/01
RESPONSE TRACKING: Z109-1

[PRD] DATABASE RECORD: 219758 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/24/92
INITIAL DATE: 08/06/90
ITEM NUMBER: E83.2E DATE LAST CHANGED: 04/27/06
SECTION: 2750 TIME LAST CHANGED: 08:45:04

REQUESTER: ER
SUBREQUESTER: DDMS KSC/PH-L SOC
TEST CODE: CKT122 STSALL

ASSOCIATED DOC: 20007S 25407B MODE8

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 219758
ITEM NUMBER: E83.2E

TRACKING NO. COMREV05 KING2001 L4503 L4601 MK98
R109-89 R2857 R3433 R3514
PRIORITY: REQUIRED
RATIONALE: ALTERNATE COMMUNICATION SOURCE AVAILABLE.

1. DESCRIPTION: SRB RETRIEVAL OPS - CCAFS AF (HF RETRIEVAL NET)
(L-5 HOURS)

RESPONSIBLE AGENCY: ER

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,25321, MODE8	T		CCAFS, SHORE STATION
K2	7,25321, MODE8	T		CCAFS, HGR. AF RETRIEVAL OPS.
D3	7,25321, MODE8	T	1	CCAFS, PAFB, DOD SOC

PRIME: KSC/PH-L/DON HAMMEL/321 861-9315

TECHNICAL CONTACT: ER/MIKE GAWEL/321 853-8118
KSC/JOE CHAPUT/321 853-4032

NOTE 1: TO BE EXTENDED FROM THE X-Y BLDG. UPON REQUEST.
NO REQUIREMENT FOR 24 HOUR USE.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/24/92
RESPONSE TRACKING: Z2850 Z3422 Z3569 Z4518 Z4626

[PRD] DATABASE RECORD: 320480 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/11/02
INITIAL DATE: 04/23/90
ITEM NUMBER: HGT84H DATE LAST CHANGED: 12/15/06
SECTION: 2750 TIME LAST CHANGED: 10:39:58

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 320480
ITEM NUMBER: HGT84H

REQUESTER: MSFC GSFC JSC
TEST CODE: CKT123 STSALL STSR28 SUPSIM

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. A5503 COMREV05 GSFCREV06 KING2001 L3141
L3405 L3603 L8501 L908-1 ML009-90
R109-89 R26157 R3110
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: SRB CONFERENCE

RESPONSIBLE AGENCY: MSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,14	T		EXT TO KSC CDSC
H2	7,14	T		EXT FROM MFSC TO JSC
H3	7,14	M		MSFC EXT MSFC/STS VOICE LOOPS TO REMOTE SITES (REF LLS 2750, H3.4.6GHKT, DBR# 539431 FOR LIST OF SITES)

POC: PHILIP CAUTHEN/EO60/256 544-4204
COMM CONTACT: MSFC/SCOTT SCHUTZENHOFER/256 544-8496

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/11/02
RESPONSE TRACKING: Z3181 Z3447 Z3604 Z8505

[PRD] DATABASE RECORD: 326396 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/11/05
INITIAL DATE: 04/12/91
ITEM NUMBER: KE84.1K DATE LAST CHANGED: 05/03/06

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 326396
ITEM NUMBER: KE84.1K

SECTION: 2750 TIME LAST CHANGED: 09:58:48

REQUESTER:	KSC	ER		
SUBREQUESTER:	ESA	FR2	JSC/B-NS	KSC/MK-SIO
	OMR1/3/4	OSR1/3/4		
TEST CODE:	CKT123	S61E16	STSALL	STSR28
	SUPSIM			
ASSOCIATED DOC:	20007S	20008S	20009S	20014S
	20017S	20037S	20044S	25009S
TRACKING NO.	A5503	COMREV05	KING2001	L04-2-1	L3840
	L3856	L3916	L4918	R0402-1	R0505-2
	R109-89	R26157	R26185	R26263	R2658
	R2725	R2908	R4212		
PRIORITY:	REQUIRED				
RATIONALE:	MISSION SUPPORT				

1. DESCRIPTION: SRB CONFERENCE

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17,37,44, 25009	T		CDSC FOR DIST
K2	7, 17	T		CDSC FOR EXT TO ER
				OSR1/3/4
Y3				ALL POS REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257
				OMR1/3/4
Y4				POS 1-8 AND 11-18 REF SEC 3020 ITEM DHKTY1.1.2K, DBR 024268
				FR2
T5				ALL JSC CONS REF SEC 3020

CONTINUED

[PRD] DATABASE RECORD: 326396
ITEM NUMBER: KE84.1K

ITEM T44.1K, DBR 024313

H6 ALL MSFC CONS REF SEC 3020
ITEM H46.1K, DBR 024286

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/11/05
RESPONSE TRACKING: Z26191 Z2679 Z2908 Z3861 Z3882
Z3953 Z4217 Z4913

[PRD] DATABASE RECORD: 582657 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/10/05
INITIAL DATE: 05/10/05
ITEM NUMBER: E84.1.1E DATE LAST CHANGED: 05/03/06
SECTION: 2750 TIME LAST CHANGED: 10:01:11

REQUESTER: ER
SUBREQUESTER: KSC/USK-705
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20017S
TRACKING NO. COMREV05 R0505-2

1. DESCRIPTION: SRB CONFERENCE

RESPONSIBLE AGENCY: ER

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,14	T		EXT TO HANGAR AF

TECH CONTACT: ER/MIKE GAWEL/321 853-8118
KSC/KEVIN BLACK/USK-705/321 853-3633

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: ALEX CARAZO/321 853-8650

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 582657
ITEM NUMBER: E84.1.1E

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/14/05

[PRD] DATABASE RECORD: 19411 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/17/90
INITIAL DATE: 12/17/90
ITEM NUMBER: T84.2T DATE LAST CHANGED: 05/03/06
SECTION: 2750 TIME LAST CHANGED: 10:00:19

REQUESTER: JSC
SUBREQUESTER: JSC MER
TEST CODE: CKT123 STSALL

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. COMREV05 KING2001 L3405 L908-1 R109-89
R3907

1. DESCRIPTION: SRB CONFERENCE

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14	T	1	MCC FOR DIST.
T2	7,14	T		EXT TO BOOSTER CONSOLE

COMM CONTACT: JSC/KEN JONES/281 483-7671

NOTE 1: MSFC HOSC COMM WILL EXTEND TO THE JSC MCC AS COORDINATED
BETWEEN COMM CONTROLLERS ON EXISTING NISN CIRCUITRY.

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/17/90
RESPONSE TRACKING: Z3909

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 20630 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/23/90
INITIAL DATE: 04/23/90
ITEM NUMBER: HK85H DATE LAST CHANGED: 05/03/06
SECTION: 2750 TIME LAST CHANGED: 10:05:34

REQUESTER: MSFC KSC
TEST CODE: CKT123 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20008S 20009S 20014S
20017S 20037S 20044S
TRACKING NO. COMREV05 KING2001 L3141 L3613 M34007
ML009-90 R109-89 R3110
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: SRM CONFERENCE

RESPONSIBLE AGENCY: MSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
H1	7,8,9,14,17, 37,44	T		EXT FROM MSFC HOSC TO BLDG 4207
K2	7,8,9,14,17 37,44	T		EXT TO KSC CDSC

POC: MSFC/PHILIP CAUTHEN/256 544-4202
COMM CONTACT: MSFC/SCOTT SCHUTZENHOFER/256 544-8496

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/23/90
RESPONSE TRACKING: Z3181

[PRD] DATABASE RECORD: 20616 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/02/92
INITIAL DATE: 04/12/91
ITEM NUMBER: KH85.1K DATE LAST CHANGED: 05/03/06
SECTION: 2750 TIME LAST CHANGED: 10:04:33

CONTINUED

[PRD] DATABASE RECORD: 20616
ITEM NUMBER: KH85.1K

REQUESTER:	KSC	MSFC		
SUBREQUESTER:	ESA	FR2	KSC/MK-SIO	MS101
	OMR1/3/4	OSR1/3/4		
TEST CODE:	CKT123	STSALL	SUPSIM	
ASSOCIATED DOC:	20007S	20008S	20009S	20014S
	20017S	20037S	20044S	
TRACKING NO.	A5503	COMREV05	KING2001	L3613	L3806
	L3840	L3856	L3916	L4918	M34007
	R109-89	R4212			
PRIORITY:	REQUIRED				
RATIONALE:	MISSION SUPPORT				

1. DESCRIPTION: SRM CONFERENCE

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,8,9,14,17, 37,44	T		CDSC FOR DIST
				OSR1/3/4
Y3				ALL POS REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257
				OMR1/3/4
Y4				POS 1-8 AND 11-18 REF SEC 3020 ITEM DHKTY1.1.2K, DBR 024268
				FR2
T5				ALL JSC CONS REF SEC 3020 ITEM T44.1K, DBR 024313
H6				ALL MSFC CONS REF SEC 3020 ITEM H46.1K, DBR 024286

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 20616
ITEM NUMBER: KH85.1K

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/02/92
RESPONSE TRACKING: Z3106 Z3819 Z3861 Z3882 Z3953
Z4217 Z4913

[PRD] DATABASE RECORD: 312620 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/17/03
INITIAL DATE: 11/07/01
ITEM NUMBER: HGKT86H DATE LAST CHANGED: 12/15/06
SECTION: 2750 TIME LAST CHANGED: 10:41:24

REQUESTER: MSFC GSFC KSC
JSC
TEST CODE: CKT124 S61E16 STSALL

ASSOCIATED DOC: 20007S 20008S 20009S 20014S
20017S 20037S 20044S
TRACKING NO. COMREV05 GSFCREV06 KING2001 R109-1 RTF114-13
PRIORITY: REQUIRED
RATIONALE: STS VOICE LOOPS REQUIRED FOR COGNIZANT ENGINEERS AT MSFC AND AT REMOTE LOCATIONS TO MONITOR THE PROGRESS OF SHUTTLE TESTING AND LAUNCH SUPPORT.

1. DESCRIPTION: SSME CONFERENCE

RESPONSIBLE AGENCY: MSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
H1	7,8,9,14, 17,37,44	T		HOSC FOR DISTRIBUTION
K2	7,8,9,14, 17,37,44	T		EXT TO KSC CDSC
T3	7,14	T		EXT FROM MSFC TO JSC
H4	7,14	T		MSFC EXT MSFC/STS VOICE LOOPS TO HONEYWELL/CLEARWATER, FLORIDA

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 312620
ITEM NUMBER: HGKT86H

H5	7,14	M	MSFC EXT MSFC/STS VOICE LOOPS TO REMOTE SITES (REF. LLS 2750, H3.4.6GHKT, DBR # 539431 FOR LIST OF SITES).

POC: PHILIP CAUTHEN/EO60/256-544-4204
COMM CONTACT: SCOTT SCHUTZENHOFER/MP71/256-544-8496

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/17/03
RESPONSE TRACKING: Z109-1 Z114-10

[PRD] DATABASE RECORD: 342393 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/09/97
INITIAL DATE: 04/12/91
ITEM NUMBER: KH86.1GK DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:24

REQUESTER: KSC MSFC
SUBREQUESTER: ESA FR2 KSC/MK-SIO MS101
OMR1/3/4 OSR1/3/4
TEST CODE: CKT124 S61C04 S61E16 STSALL
STSR28 SUPSIM

ASSOCIATED DOC: 20007S 20008S 20009S 20014S
20017S 20037S 20044S
TRACKING NO. A5503 COMREV05 KING2001 L3624 L3806
L3840 L3856 L3916 L4918 L6802
L6906 L8606 R109-89 R26157 R26185
R26263 R2658 R2725 R2908 R4212
RSRR116 RSRRMS178
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: SSME CONFERENCE

RESPONSIBLE AGENCY: KSC

CONTINUED

[PRD] DATABASE RECORD: 342393
ITEM NUMBER: KH86.1GK

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,8,9,14, 17,37,44	T		CDSC FOR DIST
				OSR1/3/4
Y2				ALL POS REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257
				OMR1/3/4
Y3				POS 1-8 AND 11-18 REF SEC 3020 ITEM DHKTY1.1.2K, DBR 024268
				FR2
T4				ALL JSC CONS REF SEC 3020 ITEM T44.1K, DBR 024313
H5				ALL MSFC CONS REF SEC 3020 ITEM H46.1K, DBR 024286
				LCC RM. ESA 3R18
H6				EXTEND FROM CDSC TO PRATT & WHITNEY BEE LINE HIGHWAY WEST PALM BEACH, FL 33410
				NOTE: REF H7 TECHNICAL CONTACT JOHN BRINSON 321 796-5700

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 342393
ITEM NUMBER: KH86.1GK

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/19/97
RESPONSE TRACKING: Z6404 Z7301 Z8202 Z8610

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/15/97
RESPONSE TRACKING: Z26191 Z2679 Z2908 Z3621 Z3819
Z3861 Z3882 Z3953 Z4217 Z4913
Z6809 Z6936 Z8202 Z8713

[PRD] DATABASE RECORD: 19412 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/11/04
INITIAL DATE: 12/17/90
ITEM NUMBER: T86.2T DATE LAST CHANGED: 05/03/06
SECTION: 2750 TIME LAST CHANGED: 10:27:49

REQUESTER: JSC
SUBREQUESTER: MER
TEST CODE: CKT124 STSALL

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. COMREV05 KING2001 L04-6-2 L3405 L908-1
R0406-4 R109-89

1. DESCRIPTION: SSME CONFERENCE

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14	T		MCC FOR DIST.
T2	7,14	T		EXT TO BOOSTER CONSOLE

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 19412
ITEM NUMBER: T86.2T

RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/11/04
RESPONSE TRACKING: Z0406-4 Z3909

[PRD] DATABASE RECORD: 293965 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/14/99
INITIAL DATE: 06/26/89
ITEM NUMBER: EK87E DATE LAST CHANGED: 04/27/06
SECTION: 2750 TIME LAST CHANGED: 08:53:59

REQUESTER: ER KSC
TEST CODE: CKT78 STSALL

ASSOCIATED DOC: 20007S 20017S
TRACKING NO. COMREV05 KING2001 L6202 R109-89 R2893
R9304

1. DESCRIPTION: ER TLM COORDINATION

RESPONSIBLE AGENCY: ER

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
E1	7,17	T		CCAFS X-Y FOR EXTENSION TO KSC/CDSC
E2	7,17	T		ROCC RTCS
E3	7,17	T		TERMINATION AT TEL-4

POC: ER/MIKE GAWEL/321 823-8118

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/14/99
RESPONSE TRACKING: Z2877 Z6202 Z9304

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 295278 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/08/94
INITIAL DATE: 06/26/89
ITEM NUMBER: KEG87.1K DATE LAST CHANGED: 12/15/06
SECTION: 2750 TIME LAST CHANGED: 10:42:44

REQUESTER: KSC ER GSFC
SUBREQUESTER: I-MIL
TEST CODE: CKT78 STSALL

ASSOCIATED DOC: 20007S 20017S
TRACKING NO. COMREV05 KING2001 R109-89 R2893

1. DESCRIPTION: ER TLM COORDINATION

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
E1	7,17	T		CDSC EXTENSION TO TEL-4
E2	7,17	T		CDSC EXTENSION TO MILA

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/08/94
RESPONSE TRACKING: Z2877 Z6202

[PRD] DATABASE RECORD: 186289 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/08/94
INITIAL DATE: 05/17/88
ITEM NUMBER: GK87.1.1G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:17

REQUESTER: GSFC KSC
SUBREQUESTER: ER GSFC/542
TEST CODE: CKT78 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20017S
TRACKING NO. COMREV05 GSFCREV06 KING2001 L2604 L6202

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 186289
ITEM NUMBER: GK87.1.1G

R109-89

1. DESCRIPTION: ER TLM COORDINATION

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
E1	7,17	T		TERMINATION AT MILA

COMM CONTACT: GSFC/AL DUANY/301 286-2721
KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/08/94
RESPONSE TRACKING: Z6202

[PRD] DATABASE RECORD: 283982 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/15/05
INITIAL DATE: 03/13/90
ITEM NUMBER: TGHKX88T DATE LAST CHANGED: 04/27/06
SECTION: 2750 TIME LAST CHANGED: 09:21:46

REQUESTER: JSC GSFC MSFC
KSC DFRC
SUBREQUESTER: GSFC/700 JSC/MG KSC/PH-L
TEST CODE: CKT79 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20026S 20027S
20028S

TRACKING NO.	A5502	COMREV05	DB98	KING2001	L04-3-2
	L04-6-1	L106-3	L209-2	L2604	L2678
	L2805	L310-3	L4304	L5203	L7507
	L801-1	R0403-5	R0406-3	R0501-1	R0504-8
	R109-89	R2809	R3507	R6101	R8306

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 283982
ITEM NUMBER: TGHKX88T

R8902
PRIORITY: MANDATORY
RATIONALE: MANDATORY FOR LAUNCH AND LANDING.

1. DESCRIPTION: FLIGHT DIRECTOR (FD)

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,26, 27,28	T		MCC FOR DISTRIBUTION
KT2	7,14,26, 27,28	T		EXTENSION TO KSC FOR DIST.
KT3	7,26	T		EXTENSION TO DFRC FOR DIST.
G4	7,14,26,27, 28	T		EXTENSION TO GSFC FOR DIST
H5	7,14,26,22, 28	T		EXT TO MSFC, HOSC (ALL CONS)

COMM CONTACT: JSC/DV/KEN JONES/2891 483-7671

REF: FLS2750 ITEM TGDH12.1T DBR 290507

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/19/05
RESPONSE TRACKING: Z0403-6 Z0406-3 Z26212 Z2878 Z3502
Z4322 Z5202 Z6101 Z7921 Z8307
Z8905

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD:	291380	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	LLS	APPROVAL DATE:	02/20/97
		INITIAL DATE:	11/12/91
ITEM NUMBER:	KE88.1K	DATE LAST CHANGED:	04/27/06
SECTION:	2750	TIME LAST CHANGED:	09:22:44

REQUESTER:	KSC	ER		
SUBREQUESTER:	ESA	FR2	KSC/MK-SIO	KSC/PH-L
	OMR1/3/4	OSR1/3/4	SOC	
TEST CODE:	CKT79	S61C04	STSALL	STSR29
	SUPSIM			
ASSOCIATED DOC:	20007S	20014S	20026S	20027S
	20028S			
TRACKING NO.	COMREV05	DB98	KING2001	L106-3	L111-110
	L3210	L3806	L3916	L4304	L4419
	R109-89	R26160	R26185	R26263	R2658
	R2715	R2725	R2809	R3114	R3507
	R3513	R4212	R8306		
PRIORITY:	MANDATORY				
RATIONALE:	MANDATORY FOR LAUNCH AND LANDING.				

1. DESCRIPTION: FLIGHT DIRECTOR (FD)-NOTE 1

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,14,26, 27,28	T		CDSC FOR DIST
T2	7,14,26, 27,28	T		CDSC FOR EXT TO CCAFS X-Y
T3	7,14,26, 27,28	T		LCC LAUNCH DIRECTOR CONS. AA-5
T4	7,14,28	T		LCC NTD CONS AB-5
T5	26,27,28	T		LCC LRD CONS AB-8
T6	7,26,27,28	M		FLT CREW QTRS, O&C CONF RM.
T7	7,26,27,28	M		DIR FOD OFF, O&C RM 3277D
T8	7	M	2	LCC RM 4R22H (SPEAKER)
T9	7,28	M		SLF, LACB, RM 5, UTC CONSOLE
Y10	7,26,27,28	M	3	KSC, HQ BLDG, RM 2115, SPEAKER BOX
T10.1	28	M		KSC NF MER CONSOLE

CONTINUED

[PRD] DATABASE RECORD: 291380
ITEM NUMBER: KE88.1K

	OSR1/3/4
Y11	ALL POS REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257
	OMR1/3/4
Y12	ALL POS REF SEC 3020 ITEM DHKTY1.1.2K, DBR 024268
	FR2
T13	ALL JSC CONS REF SEC 3020 ITEM T44.1K, DBR 024313
H14	ALL MSFC CONS REF SEC 3020 ITEM H46.1K, DBR 024286

PRIME: KSC/PH-L/TED MOSTELLER/321 861-9307
COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

NOTE 1: IN THE EVENT OF AN AOA OR RTLS ABORT, CAPABILITY SHALL REMAIN THROUGH LANDING.

NOTE 2: TERMINATE IN SPEAKER

NOTE 3: MONITOR ONLY FROM BEGINNING OF LAUNCH COUNTDOWN THRU LANDING ROLLOUT.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/20/97

RESPONSE TRACKING:	Z26191	Z2653	Z2679	Z2711	Z2908
	Z3110	Z3210	Z3502	Z3815	Z3819
	Z3953	Z4210	Z4217	Z4322	Z8307

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 211695 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/14/99
INITIAL DATE: 03/13/90
ITEM NUMBER: E88.1.1E DATE LAST CHANGED: 04/27/06
SECTION: 2750 TIME LAST CHANGED: 09:23:35

REQUESTER: ER
SUBREQUESTER: SOC
TEST CODE: CKT79 STSALL SUPSIM WSSH

ASSOCIATED DOC: 20007S 20014S 20026S 20027S 20028S
TRACKING NO. A5502 COMREV05 KING2001 L106-3 L210-1 L2604 L4304 L4503 L5309 R109-89 R26272 R3507 R9305

1. DESCRIPTION: FLIGHT DIRECTOR (FD)

RESPONSIBLE AGENCY: ER

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,26, 27,28	T		BLDG. X-Y FOR DISTRIBUTION
T2	7,14,26,28	T		ROCC FCO CONSOLE
D3	7,26,28	M		CCAFS, ROCC, PAFB DOD SOC
T4	7,27	T		WSMR BLDG. 300 FOR DISTRIBUTION
T5	7,27	T		WSMR EXTEND TO WSSH OCC AREA FOR DISTR.

TECH CONTACT: ER/MIKE GAWEL/321 853-8118
DDMS-O/321 494-8581

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER WSMR
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/14/99
RESPONSE TRACKING: Z26213 Z3502 Z4322 Z4518 Z5310 Z9305

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 232726 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/12/91
INITIAL DATE: 11/12/91
ITEM NUMBER: X88.2X DATE LAST CHANGED: 03/20/07
SECTION: 2750 TIME LAST CHANGED: 10:31:00

REQUESTER: DFRC
SUBREQUESTER: JSC KSC/PH-L
TEST CODE: CKT79 EAFB STSALL SUPSIM

ASSOCIATED DOC: 20007S 20026S
TRACKING NO. COMREV05 DB98 KING2001 L106-3 L111-10
L2604 L2655 L2667 L4304 L4419
R109-89 R2809 R3507
PRIORITY: MANDATORY
RATIONALE: MANDATORY FOR LAUNCH AND LANDING.

1. DESCRIPTION: FLIGHT DIRECTOR (FD)

RESPONSIBLE AGENCY: DFRC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,26	T		DCC FOR DISTRIBUTION
T2	7,26	M		PRODUCER, BLDG. 4800
T3	7,26	T		BLDG 4800 RM 3018, OPS MGRS CONS
T4	7,26	M		DIRECTOR, BLDG. 4800
K5	7,26	T		BLDG 4800 RM 3018 KSC GOM CONSOLE
T6	7,26	M		TV OPS MGR., BLDG. 4800
T7	7,26	M		CONTROL RM. COMMENTATOR
T8	7,26	M		EMSS CON. BLDG. 4800, RM. 3018
T9	7,26	M		EXT. TO ASTRO, VITT, & VISITING PILOT'S TRAILERS
T10	26	M		DFRC, TV CONTROL RM

POC: DFRC/GEORGE GRIMSHAW/661 276-3425
PRIME: KSC/PH-L/DEAN SCHAAF/321 861-9311
TECHNICAL CONTACT: KSC/USK-426/MIKE KUTA/321 861-3980

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 232726
ITEM NUMBER: X88.2X

SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/18/91
RESPONSE TRACKING: Z26201 Z26216 Z3502 Z4322 Z4460

[PRD] DATABASE RECORD: 215634 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/14/05
INITIAL DATE: 07/03/90
ITEM NUMBER: GY88.3G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:19

REQUESTER: GSFC NASA HQ
SUBREQUESTER: GSFC/542 JSC/MG
TEST CODE: CKT79 STSALL WSSH

ASSOCIATED DOC: 20007S 20014S 20026S 20027S 20028S
TRACKING NO. COMREV05 KING2001 L04-3-2 L04-6-1 L106-3
L109-4 L2678 L2805 L310-3 L3806
L412-1 L4304 L4826 L5101 R0403-5
R0405-7 R0406-3 R0501-1 R0504-7 R109-89
R2809 R3507 R6101 R6308

1. DESCRIPTION: FLIGHT DIRECTOR (FD)

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
G1	7,14,26,27, 28	M		GSFC FOR DISTRIBUTION
Y2	7,26,27,28	M		EXT. TO NASA HQS. FOR DIST.
T3	7,27	T	1,2	EXT TO WSSH/WSMR VIA WSC
T4	7	M		EXT TO 21 SOPS/SMC DET 12

COMM CONTACT: GSFC/AL DUANY/301 286-2721

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 215634
ITEM NUMBER: GY88.3G

NOTE 1: THIS IS A SHARED CIRCUIT WITH TPE. FLIGHT DIRECTOR WILL ACTIVATE DAY OF LAUNCH AND REMAIN ACTIVE UNTIL LANDING +24 HOURS.

NOTE 2: WILL BE MONITOR ONLY UNTIL SUCH TIME AS THE SITE IS SELECTED AS AN AOA/EOM LANDING SITE.

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/14/05
RESPONSE TRACKING: Z0501-1 Z2750 Z2878 Z3502 Z3819
Z4322 Z4827 Z5105 Z5752 Z6101
Z6310

[PRD] DATABASE RECORD: 16311 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/03/92
INITIAL DATE: 06/28/91
ITEM NUMBER: K88.3.1Z DATE LAST CHANGED: 04/03/07
SECTION: 2750 TIME LAST CHANGED: 12:24:29

REQUESTER: KSC
SUBREQUESTER: JSC/MG KSC/PH-L
TEST CODE: CKT79 STSALL WSSH

ASSOCIATED DOC: 20007S 20027S
TRACKING NO. A5502 COMREV05 DB98 KING2001 L106-3
L210-1L90 L2678 L4304 L5309 L5334
R109-89 R2737 R3433 R3507
PRIORITY: REQUIRED
RATIONALE: TERTIARY LANDING SITE. BECOMES MANDATORY FOR LANDING AT WSSH.

1. DESCRIPTION: FLIGHT DIRECTOR (FD)

RESPONSIBLE AGENCY: WSTF

REF ASSOC DOC CAP NOTE TERMINATION LOCATION

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 16311
ITEM NUMBER: K88.3.1Z

T1	7,27	T	1	EXTEND TO WSSH FOR DIST.

POC: WSTF/ROBERT MITCHELL/505 524-5774

PRIME: KSC/PH-L/LOU GARCIA/321 861-6196
TECHNICAL CONTACT: KSC/MIKE KUTA/321 861-3980

COMM CONTACT: WSTF/ZIGGY ZAPEN/505 524-5556

NOTE 1: THIS IS A SHARED CIRCUIT. TPE WILL ACTIVATE AT HANDOVER AND REMAIN ACTIVE UNTIL SCA LIFTOFF.

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/03/92
RESPONSE TRACKING: Z2705 Z2726 Z3422 Z3502 Z4322
Z5310 Z5326

[PRD] DATABASE RECORD: 589177 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/07/06
INITIAL DATE: 09/07/06
ITEM NUMBER: HB88.4H DATE LAST CHANGED: 09/14/06
SECTION: 2750 TIME LAST CHANGED: 09:03:59

REQUESTER: MSFC GRC
TEST CODE:

ASSOCIATED DOC: 20007S 20026S
TRACKING NO. L06-8-3 R0609-3

1. DESCRIPTION: FLIGHT DIRECTOR (FD)

RESPONSIBLE AGENCY: MSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,26	M	1	EXTEND TO GRC VIA HOSC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 589177
ITEM NUMBER: HB88.4H

NOTE 1: MSFC WILL EXTEND THE CIRCUITS TO GRC IN SUPPORT OF MMT CONTINGENCY SIMS AND FOR STS LAUNCH AND FLIGHT SUPPORT. VOICE LOOP WILL BE CONFIGURED ON EXISTING CIRCUITS FROM L-24 HOURS THROUGH EOM FOR SHUTTLE SUPPORT.

COMM CONTACT: MSFC/SCOTT SCHUTZENHOFER/256 544-8496

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/14/06

[PRD] DATABASE RECORD: 192933 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/07/95
INITIAL DATE: 08/21/89
ITEM NUMBER: GKT89G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:17

REQUESTER: GSFC KSC JSC
SUBREQUESTER: GSFC/700
TEST CODE: CKT80 FULLTIME STSALL SUPSIM

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 KING2001 L2604 L2805 L2919
L4527 L6306 R109-89 R3433

1. DESCRIPTION: GSFC ORBIT DETERMINATION FACILITY (ODF COORD)

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7	T		GSFC DISTRIBUTION
T2	7	T		GSFC FDF CONSOLE
K3	7	T		EXTENDED TO KSC CD&SC FOR DIST.
T4	7	T		EXT TO JSC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 192933
ITEM NUMBER: GKT89G

G5 7 M GSFC NIC

COMM CONTACT: GSFC/AL DUANY/301 286-2721

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/07/95
RESPONSE TRACKING: Z2878 Z2967 Z3422 Z4541 Z7101

[PRD] DATABASE RECORD: 586699 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/27/06
INITIAL DATE: 03/27/06
ITEM NUMBER: KE89.1K DATE LAST CHANGED: 05/04/07
SECTION: 2750 TIME LAST CHANGED: 08:08:07

REQUESTER: KSC ER
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05

1. DESCRIPTION: GSFC ORBIT DETERMINATION FACILITY (ODF COORD)

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7	T		FOR EXT TO ER

COMM CONTACT: MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/27/06

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 197496 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/27/06
INITIAL DATE: 08/21/89
ITEM NUMBER: E89.1.1E DATE LAST CHANGED: 05/07/07
SECTION: 2750 TIME LAST CHANGED: 08:03:40

REQUESTER: ER
TEST CODE: A5502 CKT80 S51E09 STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. L203-19 L2838 L4910 L6306 L6909
R2838 R3433

1. DESCRIPTION: GSFC ORBIT DETERMINATION FACILITY (ODF)

RESPONSIBLE AGENCY: ER

REF	TEST CODE	CAP	NOTE	TERMINATION LOCATION
E1	7	T		ER FOR DISTRIBUTION

TECH CONTACT: MIKE GAWEL/321 867-8118
COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/07/07
RESPONSE TRACKING: Z2877 Z3422 Z4908

[PRD] DATABASE RECORD: 180766 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/27/92
INITIAL DATE: 08/21/89
ITEM NUMBER: T89.2T DATE LAST CHANGED: 05/03/06
SECTION: 2750 TIME LAST CHANGED: 10:38:11

REQUESTER: JSC
TEST CODE: CKT80 FULLTIME STSALL SUPSIM

ASSOCIATED DOC: 20007S

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 180766
ITEM NUMBER: T89.2T

TRACKING NO. A5502 COMREV05 KING2001 L203-19 L2604
L4510 L4910 L908-7 R109-89 R3433

1. DESCRIPTION: GSFC ORBIT DETERMINATION FACILITY (ODF COORD)

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7	T		MCC DISTRIBUTION

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/27/92
RESPONSE TRACKING: Z3422 Z4526 Z4908

[PRD] DATABASE RECORD: 201556 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/20/97
INITIAL DATE: 06/30/89
ITEM NUMBER: TK90T DATE LAST CHANGED: 04/27/06
SECTION: 2750 TIME LAST CHANGED: 10:00:05

REQUESTER: JSC KSC
TEST CODE: CKT81 EAFB FULLTIME STSALL
WSSH

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
TRACKING NO. COMREV05 KING2001 L6306 L906-8 R109-89
R2886 R8306

1. DESCRIPTION: JSC/MIL ORDER WIRE

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 201556
ITEM NUMBER: TK90T

T1	7,26,27,28	T	EXTEND TO KSC CD&SC

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
SUBSUPPLIER: I-MIL
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/20/97
RESPONSE TRACKING: Z2869 Z8307

[PRD] DATABASE RECORD: 202906 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/20/97
INITIAL DATE: 06/30/89
ITEM NUMBER: KG90.1K DATE LAST CHANGED: 12/15/06
SECTION: 2750 TIME LAST CHANGED: 10:43:33

REQUESTER: KSC GSFC
SUBREQUESTER: I-MIL JSC
TEST CODE: CKT81 EAFB FULLTIME STSALL
WSSH

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
TRACKING NO. COMREV05 KING2001 L906-8 R109-89 R2886
R8306

1. DESCRIPTION: JSC/MIL ORDER WIRE

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,26,27,28	T		CDSC FOR EXT. TO MILA

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 202906
ITEM NUMBER: KG90.1K

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/12/97
RESPONSE TRACKING: Z2869 Z8320

[PRD] DATABASE RECORD: 204385 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/20/97
INITIAL DATE: 06/30/89
ITEM NUMBER: GK90.2G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:18

REQUESTER: GSFC KSC
TEST CODE: CKT81 EAFB FULLTIME STSALL
WSSH

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
TRACKING NO. COMREV05 GSFCREV06 KING2001 L906-8 R109-89
R2886 R8306

1. DESCRIPTION: JSC/MILA ORDER WIRE

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,26,27,28	T		TERMINATE MILA (FROM KSC/CDSC)

COMM CONTACT: GSFC/AL DUANY/301 286-2721
KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/28/97
RESPONSE TRACKING: Z2869 Z8313

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 205495 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/24/92
INITIAL DATE: 06/26/89
ITEM NUMBER: KE91K DATE LAST CHANGED: 04/27/06
SECTION: 2750 TIME LAST CHANGED: 10:02:25

REQUESTER: KSC ER
SUBREQUESTER: DDMS KSC/TA-E SOC
TEST CODE: CKT82 STSALL

ASSOCIATED DOC: 20007S 20028S MODE8
TRACKING NO. COMREV05 DB98 KING2001 L4601 R109-89
R2809 R2893
PRIORITY: MANDATORY
RATIONALE: PRIMARY MEANS OF COMMUNCATION WITH THE RANGE FOR AIRCRAFT MOVEMENT.

1. DESCRIPTION: KSC LAUNCH/LANDING AIRCRAFT CONTROL CIRCUIT

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
DKE1	7,28,MODE8	T		CDSC FOR DIST. AND EXT. TO CCAFS X-Y
E2	7,28,MODE8	T		SLF, LACB RM. 5
E3	7,28,MODE8	T		SLF, CONTROL TWR. TOP OF MDD
E4	7,28,MODE8	T		LCC, 1P10 RADIO CONS

TECH CONTACT: ALBERT TAFF/TA-F-F/321 867-2100
DDMS-O/321 494-8581

COMM CONTACT: MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/24/92
RESPONSE TRACKING: Z2877 Z4627

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 207945 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/22/92
INITIAL DATE: 08/21/89
ITEM NUMBER: ED91.1E DATE LAST CHANGED: 11/30/06
SECTION: 2750 TIME LAST CHANGED: 13:15:08

REQUESTER: ER HSFS
SUBREQUESTER: KSC/TA-E-C SOC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20028S MODE8
TRACKING NO. COMREV05 KING2001 L4503 L4601 L4616
MK98 R109-89 R2809 R3433
PRIORITY: REQUIRED
RATIONALE: ALTERNATE COMMUNICATION SOURCES AVAILABLE.

1. DESCRIPTION: KSC LAUNCH/LANDING AIRCRAFT CONTROL CIRCUIT (L-3 HOURS)

RESPONSIBLE AGENCY: ER

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
D1	7,28,MODE8	T		CCAFS,PAFB, DOD SOC
E2	7,28	T		ROCC, SURVEILLANCE CONTROL ROOM
K3	7,28,MODE8	M		CCAFS,LRCC,NASA PROJECT CONSOLE
K4	7	T		CCAFS,ROCC,NASA,MGMT CONSOLE

POC: ER/MIKE GAWEL/321 853-8118
TECH CONTACT: DDMS-O/JAY SUMMERS/321 494-8581

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/22/92
RESPONSE TRACKING: Z2686 Z3422 Z4518 Z4619

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 356621 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/15/04
INITIAL DATE: 02/07/90
ITEM NUMBER: TK92T DATE LAST CHANGED: 04/27/06
SECTION: 2750 TIME LAST CHANGED: 10:03:38

REQUESTER: JSC KSC
SUBREQUESTER: JSC/MG
TEST CODE: CKT96 FULLTIME STSALL SUPSIM

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
TRACKING NO. COMREV05 L04-6-1 L2604 L2678 L2715
L310-3 L3624 L412-1 R0406-3 R109-89
R26270 R3433 R6101 R6308

1. DESCRIPTION: LLTDS COORDINATION (LLTDS COORD)

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,26,27,28	T		MCC FOR DISTRIBUTION
T2	7,27	T		EXTENDED TO KSC CDSC FOR DIST.
T3	7,26,27,28	T		EXT. TO KSC

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/15/04
RESPONSE TRACKING: Z0406-3 Z26212 Z2737 Z3422 Z3621
Z6101 Z6310

[PRD] DATABASE RECORD: 19319 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/07/90
INITIAL DATE: 02/07/90
ITEM NUMBER: KE92.1K DATE LAST CHANGED: 04/27/06
SECTION: 2750 TIME LAST CHANGED: 10:04:55

REQUESTER: KSC ER
SUBREQUESTER: JSC/MG
TEST CODE: CKT96 FULLTIME STSALL

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 19319
ITEM NUMBER: KE92.1K

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
TRACKING NO. COMREV05 L3624 R109-89 R3443

1. DESCRIPTION: LLTDS COORDINATION (LLTDS COORD)

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,26,27,28	T		EXTEND TO ER

COMM CONTACT: KSC/MONIQUE MCLAMB/321 853-8118

REFERENCE: FLS ITEM T21.3K, SECTION 2750, DBR 009978

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/07/90
RESPONSE TRACKING: Z3428 Z3621

[PRD] DATABASE RECORD: 283797 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/02/99
INITIAL DATE: 02/07/90
ITEM NUMBER: E92.1.1E DATE LAST CHANGED: 04/27/06
SECTION: 2750 TIME LAST CHANGED: 10:05:15

REQUESTER: ER
SUBREQUESTER: JSC
TEST CODE: CKT96 EAFB FULLTIME STSALL
WSSH

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
TRACKING NO. A5502 COMREV05 L2604 L2727 L3624
L804-2 R26209 R4218 R9102 R9311
PRIORITY: REQUIRED
RATIONALE: VOICE CIRCUIT FOR COORDINATION OF HIGH-SPEED C-BAND
TRACKING DATA TRANSMISSION TO JSC.

CONTINUED

[PRD] DATABASE RECORD: 283797
ITEM NUMBER: E92.1.1E

1. DESCRIPTION: LLTDS COORDINATION (LLTDS COORD)

RESPONSIBLE AGENCY: ER

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,26,27,28	T		CCAS X-Y FOR DIST. AND EXTN.
T2	7,26,27,28	T		ER - LRCC, ROCC & RTCS

TECH CONTACT: ER/MIKE GAWEL/321 853-8118

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/02/99
RESPONSE TRACKING: Z26112 Z2746 Z3621 Z4225 Z9313

[PRD] DATABASE RECORD: 519575 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/03/06
INITIAL DATE: 04/09/92
ITEM NUMBER: GKT93G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:16:46

REQUESTER: GSFC KSC JSC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 GSFCREV06 KING2001 L04-4-1 L05-2-3
L4924 NSG0906 R0404-4 R0502-4 R109-89

1. DESCRIPTION: MILA DELAY VERIFY-1

RESPONSIBLE AGENCY: GSFC/MILA

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
1	7	T		EXT FROM MILA TO KSC
2	7	T		EXT TO JSC VIA CDSC

CONTINUED

[PRD] DATABASE RECORD: 519575
ITEM NUMBER: GKT93G

COMM CONTACT: GSFC/AL DUANY/301 286-2721

NOTE: BACKFEED OF MILA UPLINK A/G-1 VOICE FOR ECHO ELIMINATION.

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: I-MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/16/06
RESPONSE TRACKING: Z0404-8 Z0502-5 Z4921

[PRD] DATABASE RECORD: 586978 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/03/06
INITIAL DATE: 05/03/06
ITEM NUMBER: K93.1K DATE LAST CHANGED: 05/04/07
SECTION: 2750 TIME LAST CHANGED: 08:21:38

REQUESTER: KSC
TEST CODE: CKT97.9 STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05

1. DESCRIPTION: MIL DELAY VERIFY-1

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K2	7	T		EXT TO KSC FOR DIST

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

NOTE: BACKFEED OF MIL UPLINK A/G-1 VOICE FOR ECHO ELIMINATION.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 586978
ITEM NUMBER: K93.1K

SUBSUPPLIER: IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/03/06

[PRD] DATABASE RECORD: 591597 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/08/07
INITIAL DATE: 05/08/07
ITEM NUMBER: T93.2T DATE LAST CHANGED: 05/08/07
SECTION: 2750 TIME LAST CHANGED: 08:53:04

REQUESTER: JSC
TEST CODE:

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05

1. DESCRIPTION: MILA DELAY VERIFY-1

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
1	7	T		EXT TO JSC FOR DIST TO COMM TECH CONSOLE

COMM CONTACT: JSC/KEN JONES/281 483-7671

NOTE: BACKFEED OF MILA UPLINK A/G-1 VOICE FOR ECHO ELIMINATION.

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/08/07

[PRD] DATABASE RECORD: 519576 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/03/06
INITIAL DATE: 04/09/92
ITEM NUMBER: GKT94G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:17:08

REQUESTER: GSFC KSC JSC

CONTINUED

[PRD] DATABASE RECORD: 519576
ITEM NUMBER: GKT94G

TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 GSFCREV06 KING2001 L4924 NSG0906
R109-89

1. DESCRIPTION: MILA DELAY VERIFY-2

RESPONSIBLE AGENCY: GSFC/MILA

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7	T		EXT FROM MILA TO KSC
T2	7	T		EXT TO JSC VIA CDSC

COMM CONTACT: GSFC/AL DUANY/301 286-2721

NOTE: BACKFEED OF MILA UPLINK A/G UHF VOICE FOR ECHO ELIMINATION.

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: I-MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/16/06
RESPONSE TRACKING: Z4921

[PRD] DATABASE RECORD: 586980 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/03/06
INITIAL DATE: 05/03/06
ITEM NUMBER: K94.1K DATE LAST CHANGED: 05/04/07
SECTION: 2750 TIME LAST CHANGED: 08:22:18

REQUESTER: KSC
TEST CODE: CKT97.9 STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05

1. DESCRIPTION: MIL DELAY VERIFY-2

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 586980
ITEM NUMBER: K94.1K

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K2	7	T		EXT TO KSC FOR DIST

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

NOTE: BACKFEED OF MIL UPLINK A/G UHF VOICE FOR ECHO ELIMINATION.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/03/06

[PRD] DATABASE RECORD: 591598
DOCUMENT ID: LLS
ITEM NUMBER: T94.2T
SECTION: 2750

REQUIREMENT STATUS: APPROVED
APPROVAL DATE: 05/08/07
INITIAL DATE: 05/08/07
DATE LAST CHANGED: 05/10/07
TIME LAST CHANGED: 08:40:47

REQUESTER: JSC
TEST CODE:

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05

1. DESCRIPTION: MIL DELAY VERIFY-2

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
1	7	T		EXT TO JSC FOR DIST TO COMM TECH CONSOLE

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 591598
ITEM NUMBER: T94.2T

COMM CONTACT: JSC/KEN JONES/281 483-7671

NOTE: BACKFEED OF MIL UPLINK A/G UHF VOICE FOR ECHO ELIMINATION.

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/08/07

[PRD] DATABASE RECORD: 209413 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/09/03
INITIAL DATE: 12/08/89
ITEM NUMBER: TGHKX95T DATE LAST CHANGED: 04/27/06
SECTION: 2750 TIME LAST CHANGED: 10:10:12

REQUESTER:	JSC	GSFC	MSFC		
	KSC	DFRC			
SUBREQUESTER:	JSC/AP	SOC			
TEST CODE:	CKT98	FULLTIME	STSALL	STSR28	
	SUPSIM	TVPLAN			
ASSOCIATED DOC:	20017S	20026S	20028S		
TRACKING NO.	A5502	COMREV05	KING2001	L002-16	L01-10-1
	L03-9-1	L204-11	L210-1	L2604	L2805
	L3212	L406-1	L4938	L6505	L801-1
	L908-7	L912-1	R108-5	R109-89	R26173
	R26242	R2809	R3433	R8902	RTF114-12

1. DESCRIPTION: MISSION AUDIO

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1				PRIMARY SATELLITE TRANSMIT
T1.1		R/O	1,2	FEED FROM JSC BLDG 2 SOUTH, ROOM 210
T1.2		T/O	1,2	EXTEND TO SATELLITE CARRIER INTER-FACE
T2				BACKUP SATELLITE TRANSMIT

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 209413
ITEM NUMBER: TGHKX95T

T2.1	R/O	1,2	FEED FROM JSC BLDG 2 SOUTH, ROOM 210
T2.2	T/O	1,2	EXTEND TO SATELLITE CARRIER INTERFACE
T3			POINT-TO-MULTIPOINT SATELLITE DIST.
T3.1	T/O	1,2	EXTEND TO KSC
T3.2	T/O	1,2	EXTEND TO MSFC
T3.3	T/O	1,2	EXTEND TO DFRC
T3.4	T/O	1,2	EXTEND TO GSFC AND NASA HEADQUARTERS
T3.5	T/O	1,2	EXTEND TO JPL
T4			SATELLITE RECEIVE-BACK
T4.1	R/O	1,2	RECEIVE FROM SATELLITE CARRIER INTERFACE
T4.2	T/O	1,2	EXTEND TO JSC BLDG 2 SOUTH, ROOM 210
T5			VOICE GRADE DISTRIBUTION
T5.1	R/O	1	FEED FROM JSC BLDG 2 SOUTH, ROOM 210
T5.2	M	1	MCC FOR DISTRIBUTION
T5.3	T/M	1	FEED FROM JSC BLDG. 2 SOUTH, ROOM 210

TECH CONTACT: JSC/AP/JOHN STOLL/281 483-0769

COMM CONTACT: JSC/KEN JONES/281 483-7671

NOTE: 1. THIS COMM ALSO CONTAINED IN THE FLT PRD.
2. BROADCAST GRADE, 50 TO 15,000 HZ BANDPASS.

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/09/03
RESPONSE TRACKING: Z108-7 Z26152 Z2878 Z3213 Z3422
Z4941 Z6566 Z8905 ZRTF114-9

[PRD] DATABASE RECORD: 292902 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/12/91
INITIAL DATE: 04/12/91
ITEM NUMBER: KE95.1K DATE LAST CHANGED: 10/25/06
SECTION: 2750 TIME LAST CHANGED: 09:05:15

CONTINUED

[PRD] DATABASE RECORD: 292902
ITEM NUMBER: KE95.1K

REQUESTER:	KSC	ER		
SUBREQUESTER:	FR2	JSC/MO3	KSC/MK-SIO	KSC/XA-E
	OMR3/4	OSR3/4	SOC	
TEST CODE:	CKT98	FULLTIME	S61C04	STSALL
	SUPSIM	TVPLAN		
ASSOCIATED DOC:	20007S	20014S	20017S	20026S
	20027S	20028S	20037S	20044S
TRACKING NO.	COMREV05	DB98	KING2001	L06-10-1	L2604
	L2919	L3916	R0610-2	R109-89	R26123
	R26185	R26250	R26263	R2658	R2715
	R2809				
PRIORITY:	REQUIRED				
RATIONALE:	ALTERNATE COMMUNICATION SOURCES AVAILABLE.				

1. DESCRIPTION: MISSION AUDIO

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
1	7,14,17,37,44	M		CDSC FOR DIST
2	7,17,26,27,28	M	1	CDSC FOR KSC DISTRIBUTION
3	7,17 26,27,28	M	2	KSC NEWS FAC. PAO BLDG FOR USAF DIST
4	7,26,27,28	M		DIST. TO KSC NEWS CENTER
5	7,17,26,27,28	M	1	EXTN. TO CCAFS X-Y BUILDING.
				OSR1/3/4
6				ALL POS REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257
				OMR1/3/4 -
7				ALL POS REF SEC 3020 ITEM DHKTY1.1.2K, DBR 024268
				FR2

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 292902
ITEM NUMBER: KE95.1K

8 ALL JSC CONS REF SEC 3020
ITEM T44.1K, DBR 024313

COMM CONTACT: MONIQUE MCLAMB/321 867-8540

NOTE 1: WILLIAM JOHNSON XA-E IS DESIGNATED THE JSC PAO/JSC COMM ACCESS CONTROLLER DESIGNATING MON DROPS AT KSC AND ER.

NOTE 2: PRESS SITE COMMUNICATION CONTROL BUILDING, K7-1205A

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/12/91
RESPONSE TRACKING: Z26141 Z26191 Z2679 Z2711 Z2967
Z3953

[PRD] DATABASE RECORD: 300916 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/14/05
INITIAL DATE: 02/15/91
ITEM NUMBER: ED95.1.1E DATE LAST CHANGED: 10/25/06
SECTION: 2750 TIME LAST CHANGED: 09:10:12

REQUESTER: ER HSFS
SUBREQUESTER: KSC/TA-C KSC/XA-E SOC
TEST CODE: EAFB FULLTIME S51E09 STSALL
SUPSIM TVPLAN WSSH

ASSOCIATED DOC: 20007S 20017S 20026S 20027S
20028S
TRACKING NO. A4501 A5502 COMREV05 KING2001 L01-10-1
L06-10-1 L201-2 L210-1 L2604 L2607
L2715 L2727 L2919 L4503 L5309
MK98 R0504-7 R0610-2 R108-5 R109-89
R26124 R26209 R26219 R26242 R2704
R2809 R3433 R3443 R3918 R4218
R9305 SHAW95
PRIORITY: REQUIRED
RATIONALE: ALTERNATE COMMUNICATION SOURCE AVAILABLE.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 300916
ITEM NUMBER: ED95.1.1E

1. DESCRIPTION: MISSION AUDIO (L-5 HOURS)

RESPONSIBLE AGENCY: ER

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
1	7,17,26,27,28	M		CCAFS X-Y BLDG. FOR DISTRIBUTION
2	7,17,26,27,28	M	1	PAFB DOD SOC
3	7	M	3	CCAFS, ROCC, NASA MGT. CONSOLE
4	7,17,26,27,28	M		EAFB DATA BLDG. 1440
5	7,27	M		WSMR, EXTEND TO WSSH OCC
6	7,27	M		WSMR, EXTEND TO WSSH TOWER AREA.
7	7,27	M		WSMR, BLDG. 122, NASA PAO TEAM
8	7,17,26,27,28	M		WSMR, BLDG 300, RANGE CONTRL CTR
9	7,17,26,27,28	M	2	VAFB, BLDG, 7011 FOR DISTRIBUTION
10	7	M	3	CCAFS,ROCC,NASA R/S REP CON
11	7,17,26,27,28	T		JPL MISSION AUDIO
11.1	7,17,26,27,28	T	1	EXTEND TO JPL
11.2	7,17,26,27,28	T	1	EXTEND TO JSC BLDG 2 SOUTH, RM 212
12	7,17,26,27,28	M		EXTEND TO 1ST ROPS FOR JDMTA/ PORTABLE EARTH STATION

NOTES: 1. KSC PATCH APPROPRIATE NASA SELECT AUDIO INTO MISSION AUDIO FOR DOD SOC TERMINATIONS DURING VIDEO TRANSMISSIONS.

2. RETRANSMIT AS NASA SELECT AUDIO ON LANDING DAY. 50 HZ TO 15,000 HZ BAUD PASS REQUIRED.

3. PATCH APPROPRIATE NASA SELECT AUDIO INTO MISSION AUDIO FOR BRIEFINGS/NEWS CONFERENCES DURING VIDEO TRANSMISSIONS. (POST LAUNCH NASA SELECT NEWS BRIEFINGS, LAUNCH SCRUB NEWS BRIEFINGS, MCC MISSION SHIFT BRIEFINGS, ETC.)

POC: ER/MIKE GAWEL/321 853-8118

TECHNICAL CONTACT: JSC/AP/JOHN STOLL/281 483-0769

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)

CONTINUED

[PRD] DATABASE RECORD: 300916
ITEM NUMBER: ED95.1.1E

SUBSUPPLIER: EAFB ER WR
WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/14/05
RESPONSE TRACKING: Z108-8 Z26113 Z26213 Z2708 Z2746
Z2950 Z2967 Z3422 Z3428 Z3955
Z4225 Z4518 Z5310 Z6923 Z9305

[PRD] DATABASE RECORD: 344898 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/12/01
INITIAL DATE: 10/26/88
ITEM NUMBER: H95.2H DATE LAST CHANGED: 04/27/06
SECTION: 2750 TIME LAST CHANGED: 10:13:12

REQUESTER: MSFC
SUBREQUESTER: JSC JSC/DV14
TEST CODE: CKT98 FULLTIME STSALL STSR28
SUPSIM TVPLAN

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
TRACKING NO. A4501 COMREV05 KING2001 L01-10-1 L201-2
L2710 L6707 L702-2 R108-5 R109-89
R26147 R26157 R2809

1. DESCRIPTION: MISSION AUDIO

RESPONSIBLE AGENCY: MSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
TH1	7,26,27, 28	M		COMMUNICATIONS BLDG. 4207 FOR DISTRIBUTION
T2	7,26,27, 28	M		PUBLIC INFORMATION OFFICE BLDG. 4200

TECH CONTACT: MSFC/PHILIP CAUTHEN/256 544-4204

COMM CONTACT: MSFC/SCOTT SCHUTZENHOFER/256 544-8496

CONTINUED

[PRD] DATABASE RECORD: 344898
ITEM NUMBER: H95.2H

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/12/01
RESPONSE TRACKING: Z2725 Z2733 Z6703

[PRD] DATABASE RECORD: 300198 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/31/89
INITIAL DATE: 01/31/89
ITEM NUMBER: X95.3X DATE LAST CHANGED: 03/20/07
SECTION: 2750 TIME LAST CHANGED: 10:32:02

REQUESTER: DFRC
SUBREQUESTER: ER KSC/PH-L KSC/XA-E1
TEST CODE: CKT98 EAFB FULLTIME STSALL
SUPSIM TVPLAN

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
TRACKING NO. COMREV05 DB98 KING2001 L2604 L2655
L2919 R109-89 R26124 R2809
PRIORITY: REQUIRED
RATIONALE: ALTERNATE COMMUNICATION SOURCES AVAILABLE.

1. DESCRIPTION: MISSION AUDIO

RESPONSIBLE AGENCY: DFRC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
TK1	7,26,27, 28	M		DCC FOR DISTRIBUTION
E2	7,26,27,28	M		EXTEND TO EAFB.

POC: DFRC/GEORGE GRIMSHAW/661 276-3425
PRIME: KSC/PH-L/DEAN SCHAAF/321 861-9311
TECHNICAL CONTACT: KSC/MIKE KUTA/321 861-3980

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 300198
ITEM NUMBER: X95.3X

SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/02/89
RESPONSE TRACKING: Z26201 Z2967

[PRD] DATABASE RECORD: 188021 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/25/05
INITIAL DATE: 01/31/89
ITEM NUMBER: G95.4G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:17

REQUESTER:	GSFC			
SUBREQUESTER:	ER	JSC	JSC/MG	NASA HQ
TEST CODE:	CKT98	FULLTIME	S51G02	STSALL
	SUPSIM	TVPLAN	WSSH	

ASSOCIATED DOC:	20007S	20026S	20027S	20028S	
TRACKING NO.	COMREV05	KING2001	L05-2-9	L2604	L2678
	L2919	L5101	L801-1	R0501-1	R0504-7
	R109-89	R26124	R2809	R6306	R6524
	R8902	R9004	SHAW94		

1. DESCRIPTION: MISSION AUDIO

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
G1	7,26,27,28	M		GSFC DISTRIBUTION
G2	7,26,27,28	M/S		PAO CONSOLE, BLDG. 13
Y3	7,26,27,28	M		EXTN TO NASA HQS. FOR DISTRIBUTION
T4	7,26,27,28	M		GSFC NIC
T5	7,26	M		GSFC,BLDG. 28-N212,CALL DIR.
T6	7,26	M		GSFC,BLDG. 28-N212,CALL DIR.
T7	7,26,27,28	M		EXTEND TO WSSH/WSMR VIA WSC

COMM CONTACT: GSFC/AL DUANY/301 286-2721

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 188021
ITEM NUMBER: G95.4G

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/25/05
RESPONSE TRACKING: Z0501-1 Z26109 Z2750 Z2967 Z5105
Z6510 Z7101 Z9004 Z9006

[PRD] DATABASE RECORD: 16188 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/28/05
INITIAL DATE: 08/21/89
ITEM NUMBER: K95.4.1Z DATE LAST CHANGED: 04/03/07
SECTION: 2750 TIME LAST CHANGED: 12:21:09

REQUESTER: KSC
SUBREQUESTER: JSC JSC/MG KSC/PH-L
TEST CODE: FULLTIME STSALL TVPLAN WSSH

ASSOCIATED DOC: 20007S 20027S
TRACKING NO. A5502 COMREV05 DB98 KING2001 L210-1
L2678 L5309 L5334 R0501-1 R0504-8
R109-89 R26219 R26242 R3433
PRIORITY: REQUIRED
RATIONALE: ALTERNATE COMMUNICATION SOURCES AVAILABLE.

1. DESCRIPTION: MISSION AUDIO

RESPONSIBLE AGENCY: WSTF

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,27	M		EXTEND TO WSSH OIS FOR DIST.

POC: WSTF/RC1/ROBERT MITCHELL/505 524-5774

TECH CONTACT: KSC/PH-L/LOU GARCIA/321 861-6196
KSC/USK-426/MIKE KUTA/321 861-3890

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 16188
ITEM NUMBER: K95.4.1Z

COMM CONTACT: WSTF/ZIGGY ZAPEN/505 524-5556

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/15/05
RESPONSE TRACKING: Z0504-5 Z26152 Z2705 Z3422 Z5310
Z5326

[PRD] DATABASE RECORD: 199997 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/11/04
INITIAL DATE: 08/14/89
ITEM NUMBER: TKX96T DATE LAST CHANGED: 04/27/06
SECTION: 2750 TIME LAST CHANGED: 10:20:36

REQUESTER: JSC KSC DFRC
SUBREQUESTER: KSC/IT-D2-A KSC/KIC-105
TEST CODE: CKT99 FULLTIME STSALL SUPSIM

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
TRACKING NO. A5502 COMREV05 L04-6-2 L2604 L908-7
R0406-4 R109-89 R2809 R3410 R8307
PRIORITY: REQUIRED
RATIONALE: MULTIPLE ALTERNATE SOURCES OF COMMUNICATION BETWEEN KSC AND JSC.

1. DESCRIPTION: MISSION COMMUNICATIONS COORD (MSN COMM COORD)

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,26,27, 28	T		MCC FOR DISTRIBUTION
T2	7,26	T	1	EXT. TO DFRC BLDG. 4800
T3	7,26,27, 28	T		JSC EXTEND TO KSC/CCAFS
T4	7,27	T	1	JSC EXTEND TO WSMR, BLDG. 335/

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 199997
ITEM NUMBER: TKX96T

				VIA GSFC
K5	7,26,27,28,	T	1	EXTEND TO KSC CDSC
K6	7,27	T		JSC EXTEND TO WSMR, BLDG. 335/ VIA GSFC

COMM CONTACT: MONIQUE MCLAMB/321 867-8540

NOTE 1: KSC IS PATCHED VIA MCC HOUSTON VOICE TO BOTH EOM LANDING SITES AT L-31 THRU LANDING ROLLOUT.

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/11/04
RESPONSE TRACKING: Z0406-4 Z3404 Z8309

[PRD] DATABASE RECORD: 346256 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/11/91
INITIAL DATE: 01/11/91
ITEM NUMBER: X96.1X DATE LAST CHANGED: 03/20/07
SECTION: 2750 TIME LAST CHANGED: 10:33:04

REQUESTER: DFRC
SUBREQUESTER: JSC KSC/IT-D2-A
TEST CODE: CKT99 EAFB FULLTIME STSALL
SUPSIM

ASSOCIATED DOC: 20007S 20026S
TRACKING NO. COMREV05 DB98 KING2001 L2604 L2655
R109-89 R2809 R3917
PRIORITY: REQUIRED
RATIONALE: MULTIPLE ALTERNATE SOURCES OF COMMUNICATION BETWEEN KSC AND JSC.

1. DESCRIPTION: MISSION COMMUNICATIONS COORD (MSN COMM COORD)

RESPONSIBLE AGENCY: DFRC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
- -	- - - -	- -	- -	- - - - - - - - - - - -

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 346256
ITEM NUMBER: X96.1X

T1	7,26	T	ATR COMM TECH POSITION
K2	7,26	T	DCC FOR DISTRIBUTION
K3	7,26	T	ROOM 111, SHUTTLE HANGAR
K4	7,26	T	SPA, COMM TRAILER - CH 12

POC: DFRC/GEORGE GRIMSHAW/661 276-3425

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/11/91
RESPONSE TRACKING: Z26201 Z3922

[PRD] DATABASE RECORD: 192215 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/20/97
INITIAL DATE: 05/17/88
ITEM NUMBER: KE96.2K DATE LAST CHANGED: 04/27/06
SECTION: 2750 TIME LAST CHANGED: 10:21:51

REQUESTER: KSC ER
SUBREQUESTER: KSC/IT-D2-A KSC/KICS-105
TEST CODE: CKT99 FULLTIME STSALL SUPSIM

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
TRACKING NO. COMREV05 DB98 KING2001 L2604 R109-89
R2809 R8307
PRIORITY: REQUIRED
RATIONALE: MULTIPLE ALTERNATE SOURCES OF COMMUNICATION BETWEEN KSC AND JSC.

1. DESCRIPTION: MISSION COMMUNICATIONS COORD (MSN COMM COORD) 6717

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
- -	- - - - -	- -	- -	- - - - - - - - - -

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 192215
ITEM NUMBER: KE96.2K

K1	7,26,27,28,	T	1	CDSC FOR DISTRIBUTION
T2	7,26,27, 28	T		CDSC FOR EXTN TO MIL
T3	7,26,27,28,	T		CDSC FOR EXTN TO CCAFS X-Y
T4	7,26,27, 28	T		CDSC COMM CONTROL
T5	7,26,27, 28	T		CDSC COMM TECH

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

NOTE 1: KSC IS PATCHED VIA MCC HOUSTON VOICE TO APPLICABLE EOM LANDING SITE.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/20/97
RESPONSE TRACKING: Z8309

[PRD] DATABASE RECORD: 314061 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/06/92
INITIAL DATE: 10/18/88
ITEM NUMBER: E96.2.1E DATE LAST CHANGED: 04/27/06
SECTION: 2750 TIME LAST CHANGED: 10:33:11

REQUESTER: ER
SUBREQUESTER: KSC/IT-D2
TEST CODE: CKT99 FULLTIME STSALL SUPSIM WSSH

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
TRACKING NO. A5503 COMREV05 KING2001 L2604 L2727 L4906 MK98 R109-89 R2809
PRIORITY: REQUIRED
RATIONALE: ER NEEDS TO DISTRIBUTE MISSION COMM. COORD. THIS VOICE CKT IS USED TO COORDINATE ALL VOICE AND DATA CIRCUITS. BACKUP POINT TO POINT CIRCUITS 2BPC015 AND 2BPC016.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 314061
ITEM NUMBER: E96.2.1E

1. DESCRIPTION: MISSION COMMUNICATION COORD (MSN COMM COORD)(L-3 DAYS)

RESPONSIBLE AGENCY: ER

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,27	T		WSMR, BLDG. 300, FOR DISTRIBUTION
T2	7,27	T		WSMR BLDG. 300 EXTENDED TO WSSH OCC
T3	7,26,27,28	T		CCAFS X-Y FOR DISTRIBUTION
T4	7,26,27,28	T		CCAFS COMM CONTROL
K5	7,27	T		WSMR, BLDG. 300 EXTENDED TO WSSH OCC
T6	7,27	T		WSMR, EXTEND TO COMM TRAILER AT WSSH

TECH CONTACT: ER/MIKE GAWEL/321 853-8118

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER WSMR
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/12/92
RESPONSE TRACKING: Z2746 Z4903

[PRD] DATABASE RECORD: 316464 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/25/05
INITIAL DATE: 09/18/89
ITEM NUMBER: G96.3G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:23

REQUESTER: GSFC
SUBREQUESTER: JSC
TEST CODE: CKT99 FULLTIME STSALL SUPSIM

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
TRACKING NO. A5502 COMREV05 GSFCREV06 L04-6-2 L2604
L3405 R0406-4 R0501-1 R109-89 R2809
R8307

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 316464
ITEM NUMBER: G96.3G

1. DESCRIPTION: MISSION COMMUNICATION COORD (MSN COMM COORD)

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,26,27, 28	T		TERMINATE AT MILA (VIA CDSC)
T2	7,26,27,28	T		EXT TO WSC/WSSH (WSMR COMM COORD)

COMM CONTACT: GSFC/AL DUANY/301 286-2721

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/25/05
RESPONSE TRACKING: Z0407-2 Z0501-1 Z3447 Z8309

[PRD] DATABASE RECORD: 16331 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/28/05
INITIAL DATE: 08/14/89
ITEM NUMBER: K96.3.1Z DATE LAST CHANGED: 04/03/07
SECTION: 2750 TIME LAST CHANGED: 12:26:20

REQUESTER: KSC
SUBREQUESTER: JSC JSC/MG KSC/IT-D2
TEST CODE: CKT99 FULLTIME STSALL WSSH

ASSOCIATED DOC: 20007S 20027S
TRACKING NO. COMREV05 L2678 L908-7 R0501-1 R0504-8
R109-89 R3410
PRIORITY: REQUIRED
RATIONALE: MULTIPLE ALTERNATE SOURCES OF COMMUNICATION BETWEEN KSC AND JSC.

1. DESCRIPTION: MISSION COMMUNICATIONS COORD (MSN COMM COORD)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 16331
ITEM NUMBER: K96.3.1Z

RESPONSIBLE AGENCY: WSTF

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,27	T		EXTEND TO WSSH OIS FOR DIST.

POC: WSTF/ROBERT MITCHELL/505 524-5774
TECH CONTACT: KSC/PH-L/LOU GARCIA/321 861-619
KSC/USK-426/MIKE KUTA/321 861-3890

COMM CONTACT: WSTF/ZIGGY ZAPEN/505 524-5556

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/15/05
RESPONSE TRACKING: Z0504-5 Z2705 Z3404

[PRD] DATABASE RECORD: 291013 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/06/01
INITIAL DATE: 11/07/01
ITEM NUMBER: HK97H DATE LAST CHANGED: 11/20/06
SECTION: 2750 TIME LAST CHANGED: 09:55:08

REQUESTER: MSFC KSC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20008S 20009S 20014S
20017S 20037S 20044S 25009S
TRACKING NO. COMREV05 KING2001 R109-1
PRIORITY: REQUIRED
RATIONALE: STS VOICE LOOPS REQUIRED FOR COGNIZANT ENGINEER AT MSFC AND AT REMOTE LOCATIONS TO MONITOR THE PROGRESS OF SHUTTLE TESTING AND LAUNCH SUPPORT.

1. DESCRIPTION: KSC/MSFC COMM COORD

CONTINUED

[PRD] DATABASE RECORD: 291013
ITEM NUMBER: HK97H

RESPONSIBLE AGENCY: MSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
H1	7,8,9,14, 17,37, 25009S,44	T		HOSC FOR DISTRIBUTION
K2	7,8,9,14, 17,37, 25009S,44	T		EXT TO KSC

POC: MSFC/PHILIP CAUTHEN/EO60/256-544-4204
COMM CONTACT: SCOTT SCHUTZENHOFER/MP71/256-544-8496

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/06/01
RESPONSE TRACKING: Z109-1

[PRD] DATABASE RECORD: 289630 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/14/01
INITIAL DATE: 11/07/01
ITEM NUMBER: K97.1K DATE LAST CHANGED: 04/27/06
SECTION: 2750 TIME LAST CHANGED: 10:36:55

REQUESTER: KSC
SUBREQUESTER: MSFC
TEST CODE: CKT101 STSALL

ASSOCIATED DOC: 20007S 20008S 20009S 20014S
20017S 20037S 20044S 25009S
TRACKING NO. COMREV05 R109-1 R109-4
PRIORITY: REQUIRED
RATIONALE: NECESSARY FOR COORDINATION, AND TO WORK PROBLEMS, BETWEEN MSFC AND KSC GROUND OPS TEAMS.

1. DESCRIPTION: KSC/MSFC COMM COORD

RESPONSIBLE AGENCY: KSC

CONTINUED

[PRD] DATABASE RECORD: 289630
ITEM NUMBER: K97.1K

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
H1	7,8,9,14,17, 37,25009S,44	T		CD&SC FOR DISTRIBUTION

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/14/01
RESPONSE TRACKING: Z109-1 Z109-2

[PRD] DATABASE RECORD: 188570 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/20/04
INITIAL DATE: 10/18/90
ITEM NUMBER: TK98T DATE LAST CHANGED: 04/27/06
SECTION: 2750 TIME LAST CHANGED: 10:37:17

REQUESTER: JSC KSC
SUBREQUESTER: KSC/PH-L
TEST CODE: CKT107 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S 20037S
TRACKING NO. A106-1 COMREV05 DB98 KING2001 L04-2-1
L2604 L2750 L3840 L4906 R0402-1
R109-89
PRIORITY: REQUIRED
RATIONALE: MONITORING BY MANAGEMENT.

1. DESCRIPTION: ORBITER PROJECT OFFICE (OPO)

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17,37	T		MCC FOR DISTRIBUTION

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 188570
ITEM NUMBER: TK98T

T2	7,14,17,37	T	EXTENSION TO KSC

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/20/04
RESPONSE TRACKING: Z0402-2 Z2750 Z3861 Z4903

[PRD] DATABASE RECORD: 319153 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/19/92
INITIAL DATE: 04/30/91
ITEM NUMBER: K98.1K DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 08:10:12

REQUESTER:	KSC			
SUBREQUESTER:	ESA	FR2	JSC/B-NS	KSC/MK-SIO
	OMR1/3/4	OSR1/3/4	TV-ETD	TV-MSD
TEST CODE:	CKT107	S61C04	STSALL	SUPSIM

ASSOCIATED DOC:	20007S	20014S	20017S	20037S	20044S
TRACKING NO.	A5503	COMREV05	L04-2-1	L203-8A	L2604
	L2750	L3624	L3840	L3856	L3916
	L4003	L4524	R0402-1	R109-89	R26185
	R26263	R2658	R2715	R3114	R4212

1. DESCRIPTION: ORBITER PROJECT OFFICE (OPO)

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17, 37,44	T		CDSC FOR DISTRIBUTION OSR1/3/4

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 319153
ITEM NUMBER: K98.1K

Y2	ALL POS REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257 OMR1/3/4 - - - - - - - - - - - - -
Y3	ALL POS REF SEC 3020 ITEM DHKTY1.1.2K, DBR 024268 FR2 - - - - - - - - - - - - -
T4	ALL JSC CONS REF SEC 3020 ITEM T44.1K, DBR 024313

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/19/92
RESPONSE TRACKING: Z26191 Z2679 Z2711 Z2911 Z3110
Z3621 Z3861 Z3882 Z3953 Z4005
Z4217 Z4538

[PRD] DATABASE RECORD: 15513 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/09/97
INITIAL DATE: 11/03/89
ITEM NUMBER: Y99EGHKTXZ DATE LAST CHANGED: 03/20/07
SECTION: 2750 TIME LAST CHANGED: 10:33:40

REQUESTER: NASA HQ
TEST CODE: EAFB FULLTIME INFO RTLS
STSALL TVPLAN

ASSOCIATED DOC: 20007S 20014S 20017S 20026S
20027S 20028S
TRACKING NO. COMREV05 L3317 L8108 R26124 R2809

1. DESCRIPTION: PUBLIC AFFAIRS OFFICE COORDINATION (PAO COORD)

NASA HEADQUARTERS IS THE COGNIZANT AGENCY FOR ACCESS CONTROL

CONTINUED

[PRD] DATABASE RECORD: 15513
ITEM NUMBER: Y99EGHKTXZ

OF THE PUBLIC AFFAIRS OFFICE COORDINATION (PAO COORD) VOICE LOOP.
PAO CONTACT IS NASA HQ/ALPHEA WASHINGTON/ 202 358-1738.

THE ACCESS CONTROL CATEGORY FOR PAO COORD IS PRIVATE.
THE SECURITY CLASSIFICATION IS UNCLASSIFIED.

ACCESS CONTROL IS NOT DELEGATED TO NASA CENTERS.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z8134

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z8134

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z8134

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z8134

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z8134

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 15513
ITEM NUMBER: Y99EGHKTXZ

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z8134

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z8134

[PRD] DATABASE RECORD: 205371 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/03/07
INITIAL DATE: 06/10/88
ITEM NUMBER: TGHKX99.1T DATE LAST CHANGED: 01/03/07
SECTION: 2750 TIME LAST CHANGED: 09:24:42

REQUESTER: JSC GSFC MSFC
KSC DFRC
TEST CODE: CKT111 FULLTIME RTLS STSALL
SUPSIM TVPLAN WSSH

ASSOCIATED DOC: 20007S 20014S 20017S 20026S
20027S 20028S
TRACKING NO. COMREV05 KING2001 L04-4-1 L04-6-2 L06-12-1
L210-1 L2604 L801-1 L801-1A R0404-4
R0406-4 R0701-1 R26124 R2809 R8902
R9001

1. DESCRIPTION: PUBLIC AFFAIRS OFFICE COORDINATION (PAO COORD)

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP NOTE	TERMINATION LOCATION
Y1	7,14,17,26,27,28	T	MCC FOR DISTRIBUTION
Y2	7,14,17,26,27,28	T	EXTEND TO KSC/ER
Y3	7,14,17,26,27,28	T	EXTEND TO GSFC/NASA HEADQUARTERS

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 205371
ITEM NUMBER: TGHKX99.1T

Y4	7,14,17,26,27,28	T		EXTEND TO DFRC
Y5	7,14,17,26,27,28	T		EXTEND TO MSFC
Y6	7,14,17,26,27,28	T		EXTEND TO WSMR/VIA GSFC
Y7	7,14,17,26,27,28	T		WFCR JSC DIR. OF PUBLIC AFFAIRS
Y8	7,14,17,26,27,28	T		WFCR PAO COMMENTATOR
Y9	7,14,17,26,27,28	T		BFCR JSC DIR. OF PUBLIC AFFAIRS
Y10	7,14,17,26,27,28	T		BFCR PAO COMMENTATOR
Y11	7,14,17,26,27,28	T		MCC WFCR VIEWING ROOM BOOTH
Y12	7,14,17,26,27,28	T		MCC BFCR VIEWING ROOM BOOTH
Y13	7,14,17,26,27,28	T		EXTN TO JSC PAO (BLDG.2S) FOR DISTRIBUTION
Y14.0	7,14,17,26,27,28	T		DISTRIBUTION BY JSC PAO
Y14.1	7,14,17,26,27,28	T		DIRECTOR OF PUBLIC AFFAIRS
Y14.2	7,14,17,26,27,28	T		BLDG 2S TV CONTRL, EXEC PRODUCER
Y14.3	7,14,17,26,27,28	T		BLDG 2S TV CONTROL, PRODUCER
Y14.4	7,14,17,26,27,28	T		BLDG 2S TV CONTROL, TECHNICAL DIR
Y14.5	7,14,17,26,27,28	T		BLDG 2S AUDIO CONTROL, 4 POSITIONS
Y14.6	7,14,17,26,27,28	T		BLDG 2S BRIEFING RM 135, MODERATOR
Y14.7	7,14,17,26,27,28	T		BLDG 2S AUDITORIUM AUDIO CONSOLE
Y14.8	7,14,17,26,27,28	T		BLDG 2S CHIEF, MEDIA SERVICES BR
Y14.9	7,14,17,26,27,28	T		BLDG 2S AUDIO-VISUAL MANAGER
Y14.10	7,14,17,26,27,28	T	1	EXTEND TO JPL

COMM CONTACT: JSC/KEN JONES/281 483-7671

NOTE 1: PLUG OUT TRANSMIT AND RECEIVE FOR JPL DURING SHUTTLE MISSIONS, EXCEPT WHEN THE NASA HQ PAO CONTACT ADVISES JSC THAT JPL PAO IS SUPPORTING THE MISSION.

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/03/07
RESPONSE TRACKING: Z0404-4 Z0406-4 Z8905 Z9001

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 231240 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/22/91
INITIAL DATE: 08/22/91
ITEM NUMBER: KE99.2K DATE LAST CHANGED: 08/14/06
SECTION: 2750 TIME LAST CHANGED: 13:17:13

REQUESTER: KSC ER
SUBREQUESTER: KSC/MK-SIO KSC/XA-E
TEST CODE: CKT111 FULLTIME RTLS STSALL
SUPSIM TVPLAN

ASSOCIATED DOC: 20007S 20014S 20017S 20026S
20027S 20028S
TRACKING NO. COMREV05 KING2001 L2604 L4809 R26124
R2809

1. DESCRIPTION: PUBLIC AFFAIRS OFFICE COORDINATION (PAO COORD)

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
Y1	7,14,17,26,27,28	T		CDSC FOR DISTRIBUTION
Y2	7,14,17,26,27,28	T	1	EXTEND TO ER
Y3	7,14,17,26,27,28	T		FR1/3/4, PAO COMMENTATOR
Y4	7,14,17,26,27,28	T		FR1/3/4, KSC DIR. PUBLIC AFFAIRS
Y5	7,14,17,26,27,28	T		FR1/3/4, NASA HQ DIR PUBLIC AFFAIRS
Y6	7,14,17,26,27,28	T		KSC HQ BLDG, DIRECTOR, PUBLIC AFF
Y7	7,14,17,26,27,28	T		LC39 PRESS SITE,CHIEF,PUBLIC AFF
Y8	7,14,17,26,27,28	T		LC39 PRESS SITE,CHIEF,AUD-VIS OPS
Y9	7,14,17,26,27,28	T		LC39 PRESS SITE, NEWSROOM MANAGER
Y10	7,14,17,26,27,28	T		LC39 PRESS SITE,TV PRODUCER (OFF)
Y11	7,14,17,26,27,28	T		LC39 PRESS SITE, TV CTRL EXEC PRODUCER
Y12	7,14,17,26,27,28	T		LC39 PRESS SITE, TV CTRL,PRODUCER
Y13	7,14,17,26,27,28	T		LC39 PRESS SITE, TV CTRL,DIRECTOR
Y14	7,14,17,26,27,28	T		LC39 PRESS SITE, AUDIO CTRL,2 POS
Y15	28	T		SLF MID-FIELD PARK SITE MOUND

TECH CONTACT: WILLIAM JOHNSON/XA-E/321 867-2468

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 231240
ITEM NUMBER: KE99.2K

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

NOTE 1: PLUG OUT TRANSMIT AND RECEIVE DURING SHUTTLE MISSIONS.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/22/91
RESPONSE TRACKING: Z2697 Z4815

[PRD] DATABASE RECORD: 198704 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/14/99
INITIAL DATE: 02/07/90
ITEM NUMBER: E99.2.1E DATE LAST CHANGED: 08/14/06
SECTION: 2750 TIME LAST CHANGED: 13:17:27

REQUESTER: ER
SUBREQUESTER: NASA HQ
TEST CODE: CKT111 FULLTIME STSALL TVPLAN
WSSH

ASSOCIATED DOC: 20007S 20014S 20017S 20026S
20027S 20028S
TRACKING NO. A5503 COMREV05 KING2001 L210-1 L3624
L5309 R26124 R26219 R26272 R9304
R9305

1. DESCRIPTION: PUBLIC AFFAIRS OFFICE COORDINATION (PAO COORD)

RESPONSIBLE AGENCY: ER

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
Y1	SEE NOTE 1	T	1	CCAFS X-Y FOR DISTRIBUTION
Y2	SEE NOTE 1	T	1	CCAFS, ROCC LRCC, PAFB DOD SOC
Y3	7,14,17,26-28	T		WSMR, COMM BLDG 123 FOR DIST
Y4	7,14,17,26-28	T		WSMR, PAO BLDG 122, NASA PAO TEAM

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 198704
ITEM NUMBER: E99.2.1E

NOTES: 1. THESE TERMINATIONS USED ONLY FOR NASA UNMANNED LAUNCHES FROM CCAFS. KSC WILL PLUG OUT TRANSMIT AND RECEIVE FOR CCAFS DURING SHUTTLE MISSIONS.

TECH CONTACT: ER/MIKE GAWEL/853-8118

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER WSMR
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/14/99
RESPONSE TRACKING: Z26113 Z2924 Z2950 Z3621 Z5310
Z9304 Z9305

[PRD] DATABASE RECORD: 329561 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/25/05
INITIAL DATE: 06/10/88
ITEM NUMBER: GY99.3G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:24

REQUESTER: GSFC NASA HQ
SUBREQUESTER: GSFCR1
TEST CODE: CKT111 FULLTIME RTLS STSALL
TVPLAN

ASSOCIATED DOC: 20007S 20014S 20017S 20026S
20027S 20028S
TRACKING NO. COMREV05 GSFCREV06 KING2001 L04-4-3 L5101
L801-1 R0404-6 R0501-1 R26124 R2809
R8704 R8902 R9004

1. DESCRIPTION: PUBLIC AFFAIRS OFFICE COORDINATION (PAO COORD)

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
Y1	7,14,17,26,27,28	T		GSFC VOICE FOR DISTRIBUTION
Y2	7,14,17,26,27,28	T		GSFC BLDG 8,PAO OFF, SUITE,2 POS.

CONTINUED

[PRD] DATABASE RECORD: 329561
ITEM NUMBER: GY99.3G

Y3	7,14,17,26,27,28	T		GSFC BLDG 88,VISITOR CNTR, NEWSFAC
Y4	7,14,17,26,27,28	T		NASA HQ, 300 E STREET SW RM 8K72, NEWS CHIEF
Y5	7,14,17,26,27,28	T		NASA HQ, 300 E STREET SW RM 8K72, CHIEF AUDIO
Y6	7,14,17,26,27,28	T	1	EXT TO WSMR/WSSH

COMM CONTACT: GSFC/AL DUANY/301 286-2721

NOTE 1: THIS IS NOT IN THE CURRENT CONFIGURATION TO WSC, BUT WILL BE EXTENDED IN THE EVENT OF A WSSH LANDING.

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/25/05
RESPONSE TRACKING: Z0501-1 Z2698 Z5105 Z8705 Z9004
Z9006

[PRD] DATABASE RECORD: 188493 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/10/88
INITIAL DATE: 06/10/88
ITEM NUMBER: X99.4X DATE LAST CHANGED: 03/20/07
SECTION: 2750 TIME LAST CHANGED: 10:34:42

REQUESTER: DFRC
TEST CODE: CKT111 EAFB FULLTIME RTLS
STSALL SUPSIM TVPLAN

ASSOCIATED DOC: 20007S 20014S 20017S 20026S
20027S 20028S
TRACKING NO. COMREV05 KING2001 L2604 R26124 R2809

1. DESCRIPTION: PUBLIC AFFAIRS OFFICE COORDINATION (PAO COORD)

RESPONSIBLE AGENCY: DFRC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 188493
ITEM NUMBER: X99.4X

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
Y1	7,14,17,26,27,28	T		BLDG 4800,COMM CNTRL FOR DISTR
Y2	7,14,17,26,27,28	T		PAO TRAILER CX, DIR EXT. AFFAIRS
Y3	7,14,17,26,27,28	T		PAO TRAILER CX, PIO SPECIALIST(1)
Y4	7,14,17,26,27,28	T		PAO TRAILER CX, PIO SPECIALIST(2)
Y5	7,14,17,26,27,28	T		NEWSCENTER TRAILER CX, NEWS CHIEF
Y6	7,14,17,26,27,28	T		ISF AUDITORIUM, MODERATOR
Y7	7,14,17,26,27,28	T		ISF AUDITORIUM, AUDIO CONSOLE
Y8	7,14,17,26,27,28	T		BLDG 4800 TV CNTRL, PRODUCER
Y9	7,14,17,26,27,28	T		BLDG 4800 TV CNTRL,PRODUCER/DIR
Y10	7,14,17,26,27,28	T		BLDG 4800 TV CONTROL, AUDIO ENGR
Y11	7,14,17,26,27,28	T		BLDG 4800 CONTROL RM (BLUE), COMMENTATOR
Y12	7,14,17,26,27,28	T		BLDG 4800 CONTROL RM (GOLD), COMMENTATOR

TECH CONTACT: DFRC/GEORGE GRIMSHAW/661 276-3425

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/07/88
RESPONSE TRACKING: Z2699

[PRD] DATABASE RECORD: 201782 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/10/88
INITIAL DATE: 06/10/88
ITEM NUMBER: H99.5H DATE LAST CHANGED: 11/20/06
SECTION: 2750 TIME LAST CHANGED: 09:55:58

REQUESTER: MSFC
TEST CODE: FULLTIME RTLS STSALL TVPLAN

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 201782
ITEM NUMBER: H99.5H

ASSOCIATED DOC: 20007S 20014S 20017S 20026S
20027S 20028S
TRACKING NO. COMREV05 KING2001 R26124 R2809

1. DESCRIPTION: PUBLIC AFFAIRS OFFICE COORDINATION (PAO COORD)

RESPONSIBLE AGENCY: MSFC

REF	ASSOC DOC	CAP NOTE	TERMINATION LOCATION
Y1	7,14,17,26,27,28	T	BLDG 4207, MARSHALL COMM FOR DISTR
Y2	7,14,17,26,27,28	T	BLDG 4207, TV CTRL, EXEC PRODUCER
Y3	7,14,17,26,27,28	T	BLDG 4200, DIR. OF PUBLIC AFFAIRS
Y4	7,14,17,26,27,28	T	BLDG 4200, CHIEF OF MEDIA SERV
Y5	7,14,17,26,27,28	T	BLDG 4200, NSTS PUBLIC AFFAIRS OFF
Y6	7,14,17,26,27,28	T	BLDG 4663, PCR M-203, PAO COMMENTATOR
Y7	7,14,17,26,27,28	T	BLDG 4663, PCR A-209, PAO COMMENTATOR

POC: MSFC/PHILIP CAUTHEN/256 544-4204
COMM CONTACT: MSFC/SCOTT SCHUTZENHOFER/256 544-8496

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/01/88
RESPONSE TRACKING: Z26129

[PRD] DATABASE RECORD: 208356 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/22/04
INITIAL DATE: 09/23/88
ITEM NUMBER: TGHKX100T DATE LAST CHANGED: 04/27/06
SECTION: 2750 TIME LAST CHANGED: 13:09:17

REQUESTER: JSC GSFC MSFC
KSC DFRC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 208356
ITEM NUMBER: TGHKX100T

SUBREQUESTER: JSC/MG
TEST CODE: CKT112 FULLTIME RTLS STSALL
SUPSIM TVPLAN

ASSOCIATED DOC: 20007S 20014S 20017S 20026S
20027S 20028S
TRACKING NO. COMREV05 KING2001 L04-4-1 L2604 L2678
L412-1 L6805 L801-1 L801-1A R0404-4
R109-89 R26125 R2809 R8902 R9001
SHAW94

1. DESCRIPTION: PUBLIC AFFAIRS OFFICE CUE

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17,26 27,28	T		MCC DIST.
T2	7,14,17,26 27,28	T		EXTN. TO KSC
T3	7,14,17,26 27,28	T		EXTN. TO DFRC
T4	7,14,17,26 27,28	T		EXTN. TO GSFC
T5	7,14,17,26 27,28	T		EXTN. TO MSFC
T6	7,14,17,26, 27,28	T		EXTN. TO JPL

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/22/04
RESPONSE TRACKING: Z0404-4 Z26212 Z2697 Z6406 Z8905
Z9001

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 203014 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/12/91
INITIAL DATE: 11/12/91
ITEM NUMBER: K100.1K DATE LAST CHANGED: 04/27/06
SECTION: 2750 TIME LAST CHANGED: 13:09:54

REQUESTER: KSC
SUBREQUESTER: KSC/XA-E1
TEST CODE: CKT112 FULLTIME RTLS STSALL
TVPLAN

ASSOCIATED DOC: 20007S 20014S 20017S 20026S
20027S 20028S
TRACKING NO. COMREV05 DB98 KING2001
PRIORITY: REQUIRED
RATIONALE: ALTERNATE COMMUNICATION SOURCES AVAILABLE.

1. DESCRIPTION: PUBLIC AFFAIRS OFFICE CUE

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,14,17,26 27,28	T		CDSC FOR DISTRIBUTION
K2	7,14,17,26 27,28	T		KSC NEWS FACILITY
T3	28	T		KSC NF MER CONS

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/04/91

[PRD] DATABASE RECORD: 199219 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/12/91
INITIAL DATE: 11/12/91
ITEM NUMBER: X100.2X DATE LAST CHANGED: 03/20/07
SECTION: 2750 TIME LAST CHANGED: 10:35:47

REQUESTER: DFRC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 199219
ITEM NUMBER: X100.2X

SUBREQUESTER: JSC KSC KSC/XA-E1
TEST CODE: CKT112 EAFB FULLTIME STSALL
SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S 20026S
20027S 20028S
TRACKING NO. COMREV05 DB98 KING2001 L111-10 L2604
L4419 R109-89 R26125 R2809
PRIORITY: REQUIRED
RATIONALE: ALTERNATE COMMUNICATION SOURCES AVAILABLE.

1. DESCRIPTION: PUBLIC AFFAIRS OFFICE CUE

RESPONSIBLE AGENCY: DFRC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
KT1	7,14,17,26 27,28	T		DCC FOR DIST. TO DFRC
T2	26	T		DFRC, TV CONTROL RM

TECH CONTACT: DFRC/GEORGE GRIMSHAW/661 276-3425

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/18/91
RESPONSE TRACKING: Z2651 Z4460

[PRD] DATABASE RECORD: 331423 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/16/98
INITIAL DATE: 03/12/91
ITEM NUMBER: GY100.3G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:24

REQUESTER: GSFC NASA HQ
SUBREQUESTER: JSC/MG
TEST CODE: CKT112 FULLTIME RTLS STSALL
SUPSIM TVPLAN WSSH

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 331423
ITEM NUMBER: GY100.3G

ASSOCIATED DOC:	20007S	20014S	20017S	20026S	
	20027S	20028S			
TRACKING NO.	COMREV05	KING2001	L102-10	L2604	L2678
	L3712	L6805	L801-1	L908-7	R109-89
	R26126	R2809	R3410	R8902	R9004
	SHAW94				

1. DESCRIPTION: PUBLIC AFFAIRS OFFICE CUE

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17,26 27,28	T		GSFC DIST.
T2	7,14,17,26 27,28	T		EXTN. TO NASA HQS. ROOM HQCM-30 300 E STREET SW, WASHINGTON, D. C.
T3	7,14,17,26 27,28	T		GSFC,BLDG. 8-N2,CALL DIR.
T4	7,14,17,26 26,27	T		GSFC, BLDG. 8-N4M CALL DIR.
T5	7,14,17,26 27,28	T		NASA HQS. ROOM HQCM-30 300 E STREET SW, WASHINGTON, D. C.

NOTE: THIS COMM ALSO CONTAINED IN THE FLT PRD. (REF: FLS2750, ITEM TYG29.4G, DBR 355797).

COMM CONTACT: GSFC/AL DUANY/301 286-2721

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/16/98

RESPONSE TRACKING:	Z2678	Z2723	Z3404	Z3716	Z4807
	Z6404	Z9004			

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 14773 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/22/88
INITIAL DATE: 03/22/88
ITEM NUMBER: H100.4H DATE LAST CHANGED: 11/20/06
SECTION: 2750 TIME LAST CHANGED: 09:56:13

REQUESTER: MSFC
TEST CODE: FULLTIME RTLS STSALL TVPLAN

ASSOCIATED DOC: 20007S 20014S 20017S 20026S
20027S 20028S
TRACKING NO. COMREV05 R109-89 R26126 R2809

1. DESCRIPTION: PUBLIC AFFAIRS OFFICE CUE (PAO CUE)

RESPONSIBLE AGENCY: MSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17,26 27,28	T		BLDG 4207 FOR DISTRIBUTION

POC: MSFC/PHILIP CAUTHEN/256 544-4204
COMM CONTACT: MSFC/SCOTT SCHUTZENHOFER/256 544-8496

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/01/88
RESPONSE TRACKING: Z26129

[PRD] DATABASE RECORD: 234849 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/05/91
INITIAL DATE: 02/05/91
ITEM NUMBER: TK101T DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 08:16:21

REQUESTER: JSC KSC
TEST CODE: CKT117 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20017S
TRACKING NO. COMREV05 KING2001 L102-2 L2604 L2919
L3902 R109-89

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 234849
ITEM NUMBER: TK101T

1. DESCRIPTION: FLIGHT CONTROL OFFICER (FCO) "PRIME"

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,17	T		MCC FOR DISTRIBUTION
E2	7,17	T		FD CONSOLE, MCC
E3	7,17	T		FIDO CONSOLE, MCC
K4	7,17	T		EXT TO KSC

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/05/91
RESPONSE TRACKING: Z2967 Z3941

[PRD] DATABASE RECORD: 228403 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/17/88
INITIAL DATE: 05/17/88
ITEM NUMBER: KE101.1K DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 08:16:55

REQUESTER: KSC ER
TEST CODE: CKT117 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20017S
TRACKING NO. COMREV05 KING2001 L2604 R109-89

1. DESCRIPTION: FLIGHT CONTROL OFFICER (FCO) "PRIME"

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,17	T		CDSC FOR EXT. FROM CCAFS

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 228403
ITEM NUMBER: KE101.1K

X-Y TO MCC

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/17/88

[PRD] DATABASE RECORD: 199607 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/21/97
INITIAL DATE: 01/31/89
ITEM NUMBER: E101.1.1E DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 08:17:20

REQUESTER: ER
SUBREQUESTER: JSC KSC KSC/TA-E
TEST CODE: CKT117 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20017S
TRACKING NO. COMREV05 L2604 L2919 L6306 L7503
L8212 MK98 R109-89 R26209 R8308
PRIORITY: REQUIRED
RATIONALE: ALTERNATE COMMUNICATION SOURCE AVAILABLE.

1. DESCRIPTION: FLIGHT CONTROL OFFICER (FCO) "PRIME" (L-3 HOURS)

RESPONSIBLE AGENCY: ER

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
E1	7,17	T		CCAFS X-Y FOR DISTRIBUTION
E2	7,17	T		ROCC FCO CONSOLE
T3	7,17	T		CCAFS X-Y FOR EXT. TO CDSC AND MCC
K4	7	M		CCAFS, ROCC, NASA R/S REP CONS

POC: ER/MIKE GAWEL/321 853-8118

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 199607
ITEM NUMBER: E101.1.1E

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/28/97
RESPONSE TRACKING: Z26142 Z2686 Z2967 Z7508 Z8219
Z8315

[PRD] DATABASE RECORD: 192346 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/11/04
INITIAL DATE: 05/17/88
ITEM NUMBER: TK102T DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 08:18:13

REQUESTER: JSC KSC
TEST CODE: CKT118 FULLTIME RTLS S51G03
STSALL SUPSIM TVPLAN

ASSOCIATED DOC: 20007S 20028S
TRACKING NO. COMREV05 KING2001 L04-1-1 L04-4-1 L04-6-2
L2604 R0401-1 R0404-4 R0406-4 R109-89
R26127 R2809

1. DESCRIPTION: SELECTED AIR-TO-GROUND 1 INHIBITED (SEL A/G-1 INHIB)

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,28	T		BLDG. 2S, ROOM 210
T2	7,28	M		EXTN. TO KSC/ER

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 192346
ITEM NUMBER: TK102T

RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/11/04
RESPONSE TRACKING: Z0401-2 Z0404-4 Z0406-4

[PRD] DATABASE RECORD: 174400 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/17/88
INITIAL DATE: 05/17/88
ITEM NUMBER: KE102.1K DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 08:18:54

REQUESTER: KSC ER
TEST CODE: CKT118 FULLTIME RTLS STSALL
SUPSIM TVPLAN

ASSOCIATED DOC: 20007S 20028S
TRACKING NO. COMREV05 KING2001 L04-4-1 L2604 R0404-4
R109-89 R26127 R2809

1. DESCRIPTION: SELECTED AIR-TO-GROUND 1 INHIBITED (SEL A/G 1 INHIB)

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,28	M		CDSC FOR DIST. AND EXT. TO CCAFS X-Y
T2	7,28	M		KSC NEWS FACILITY

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/03/88
RESPONSE TRACKING: Z2668

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 264893 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/22/04
INITIAL DATE: 05/17/88
ITEM NUMBER: E102.1.1E DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 08:19:22

REQUESTER: ER
SUBREQUESTER: JSC
TEST CODE: CKT118 FULLTIME RTLS STSALL
SUPSIM TVPLAN

ASSOCIATED DOC: 20007S 20028S
TRACKING NO. COMREV05 KING2001 L04-4-1 L2604 R0404-4
R109-89 R26127 R2809

1. DESCRIPTION: SELECTED AIR-TO-GROUND 1 INHIBITED
(SEL A/G-1 INHIB)

RESPONSIBLE AGENCY: ER

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,28	M		CCAFS X-Y FOR DISTRIBUTION
T2	7,28	M		TEL-4 RECEIVING STATION

ER/MIKE GAWEL/321 853-8540

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/22/04
RESPONSE TRACKING: Z2660

[PRD] DATABASE RECORD: 188056 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/25/05
INITIAL DATE: 03/12/90
ITEM NUMBER: GKTX103G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:17

REQUESTER: GSFC KSC JSC
DFRC
SUBREQUESTER: GSFC/700 GSFCR1 JSC/MG

CONTINUED

[PRD] DATABASE RECORD: 188056
ITEM NUMBER: GKTX103G

TEST CODE: CKT120 STSALL SUPSIM WSSH

ASSOCIATED DOC:	20007S	20026S	20027S		20028S
TRACKING NO.	COMREV05	KING2001	L2604	L2678	L2805
	L301-3	L308-1	L310-3	L3103	L5503
	L602-1	L6306	L710-2	L7603	L801-1
	L801-1A	L908-7	R0501-1	R109-89	R2809
	R3114	R3433	R5808	R6101	R8307
	R8702	R8704	R8903	R9001	

1. DESCRIPTION: SITE COORDINATION (SITE COORD)

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
1	7,26-28	T		GSFC FOR DIST.
2	7,26-28	T		EXT. TO JSC
3	7,26-28	T	1	EXT. TO MILA, WLP
4	7,26-28	T		EXT. TO KSC
5	7,26-28	T	1	NIC, BLDG 13
6	7,27	T		EXTEND TO WSC/WSSH/WSMR
7	7,26-28	T		EXTEND TO DFRC
8	7,26,28	T		EXTEND TO WLPS/WFF

NOTE: 1. COORDINATION WITH THE GN IS THROUGH NIC AT GSFC.

COMM CONTACT: GSFC/AL DUANY/301 286-2721

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/25/05

RESPONSE TRACKING:	Z0501-1	Z2750	Z2878	Z3110	Z3127
	Z3422	Z5502	Z5808	Z6101	Z7101
	Z7901	Z8309	Z8703	Z8705	Z9003

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 188056
ITEM NUMBER: GKTX103G

[PRD] DATABASE RECORD: 188319 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/20/97
INITIAL DATE: 08/21/89
ITEM NUMBER: T103.1T DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 08:20:25

REQUESTER: JSC
TEST CODE: CKT120 STSALL

ASSOCIATED DOC:	20007S	20026S	20027S	20028S
TRACKING NO.	COMREV05 R2809	KING2001 R3433	L301-3 R6101	L310-3 R8307	L908-7

1. DESCRIPTION: SITE COORDINATION (SITE COORD)

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,26-28	T		MCC FOR DIST.

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/20/97
RESPONSE TRACKING: Z3422 Z5502 Z6101 Z8309

[PRD] DATABASE RECORD: 188564 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/27/95
INITIAL DATE: 02/17/89
ITEM NUMBER: K103.2K DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 08:27:03

REQUESTER: KSC
SUBREQUESTER: FF-R JSC
TEST CODE: CKT120 STSALL SUPSIM WSSH

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 188564
ITEM NUMBER: K103.2K

ASSOCIATED DOC:	20007S	20026S	20027S	20028S	
TRACKING NO.	A5503	COMREV05	KING2001	L212-1	L2604
	L2607	L2961	L5409	L6306	L6709
	L804-2	MK98	R109-89	R2809	R9102
	SHAW95				

PRIORITY: REQUIRED
RATIONALE: VOICE CIRCUIT FOR COORDINATION OF GROUND S-BAND TRACKING SUPPORT. ALTERNATE COMMUNICATION SOURCE AVAILABLE.

1. DESCRIPTION: SITE COORDINATION (SITE COORD) (L-5 HOURS)

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,26-28	T		CD&SC FOR DIST
K2	7,26-28	T		EXT TO ER

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/01/95
RESPONSE TRACKING: Z6706 Z7407

[PRD] DATABASE RECORD: 586717 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/28/06
INITIAL DATE: 03/28/06
ITEM NUMBER: E103.2.1E DATE LAST CHANGED: 05/16/07
SECTION: 2750 TIME LAST CHANGED: 07:53:43

REQUESTER: ER
TEST CODE: STSALL

ASSOCIATED DOC:	20007S	20026S	20027S	20028S
TRACKING NO.	COMREV05			

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 586717
ITEM NUMBER: E103.2.1E

1. DESCRIPTION: SITE COORDINATION (SITE COORD) (L-5 HOURS)

REPONSIBLE AGENCY: ER

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
E1	7,26-28	T		ER, LRCC, ROCC
E2	7,26-28	T		AFSCN SOC 39
E3	7,26-28	M		CCAFS,LRCC,NASA PROJ. CONS
T4	7,26-28	T		EXT WSMR B-300 FOR DIST.

TECH CONTACT: ER/MIKE GAWEL/321 853-8118

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER WSMR
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/07/07

[PRD] DATABASE RECORD: 188797 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/26/88
INITIAL DATE: 08/26/88
ITEM NUMBER: X103.3X DATE LAST CHANGED: 03/20/07
SECTION: 2750 TIME LAST CHANGED: 10:36:44

REQUESTER: DFRC
TEST CODE: CKT120 EAFB STSALL

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
TRACKING NO. COMREV05 KING2001 L2655 R2809
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: SITE COORDINATION (SITE COORD)

RESPONSIBLE AGENCY: DFRC

REF	ASSSOC DOC	CAP	NOTE	TERMINATION LOCATION
- -	- - - -	- -	- -	- - - - - - - - - -

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 188797
ITEM NUMBER: X103.3X

X1	7,26-28	T	DCC FOR DIST.
X2	7,26-28	T	ATR

TECH CONTACT: DFRC/GEORGE GRIMSHAW/661 276-3425

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/26/88
RESPONSE TRACKING: Z26201

[PRD] DATABASE RECORD: 197947 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/20/04
INITIAL DATE: 10/22/90
ITEM NUMBER: TGHKX104T DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 08:28:36

REQUESTER: JSC GSFC MSFC
KSC DFRC
SUBREQUESTER: KSC/PH-L
TEST CODE: CKT121 FULLTIME STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S 20026S
20027S 20028S 20037S
TRACKING NO. A5503 COMREV05 DB98 KING2001 L04-2-1
L109-1 L205-4 L2604 L2817 L3844
L4820 L4906 L906-13 R0402-1 R109-89
R2809 R3114 R5006
PRIORITY: MANDATORY
RATIONALE: MISSION CRITICAL COMMUNICATION WITH PROGRAM OFFICE.

1. DESCRIPTION: SPACE SHUTTLE PROGRAM OFFICE (SSPO)

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 197947
ITEM NUMBER: TGHKX104T

T1	7,14,17,26, 27,28,37	T	MCC FOR DIST.
T2	7,14,17,26, 27,28,37	T	EXTENDED TO KSC
K3	7,14,17,26, 27,28,37	T	EXTENDED TO KSC
T4	7,14,17,26, 27,28,37	T	EXTENDED TO MSFC
Y5	7,26,27, 28	T	EXTENDED TO GSFC
T6	7,26	T	EXTENDED TO DFRC

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/20/04
RESPONSE TRACKING: Z0402-2 Z2889 Z3110 Z3869 Z4824 Z4903

[PRD] DATABASE RECORD: 219131 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/20/04
INITIAL DATE: 04/30/91
ITEM NUMBER: KE104.1K DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 08:30:37

REQUESTER: KSC ER
SUBREQUESTER: ESA FR2 KSC/MK-SIO KSC/PH-F
KSC/PH-H KSC/TA-E MS101 MSFC
OMR1/3/4 OSR1/3/4
TEST CODE: CKT121 FULLTIME STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S 20026S
20027S 20028S 20037S 20044S
TRACKING NO. A106-1 A5503 COMREV05 DB98 KING2001
L04-2-1 L205-4 L2604 L3844 L3856
L3916 L4003 L4524 L711-2 L8708

CONTINUED

[PRD] DATABASE RECORD: 219131
ITEM NUMBER: KE104.1K

R0402-1 R109-89 R26185 R26255 R26263
R2658 R2808 R2809 R3443 R4212
R5006

PRIORITY: MANDATORY
RATIONALE: MISSION CRITICAL COMMUNICATIONS WITH PROGRAM OFFICE.

1. DESCRIPTION: SPACE SHUTTLE PROGRAM OFFICE (SSPO)

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17,26, 27,28,37,44	T		CDSC FOR DISTRIBUTION
K2	7,14,17	M		EXT TO CCAFS
T3	7,14,26,27, 28	T		LAUNCH DIRECTOR, CONSOLE AA-5
				OSR1/3/4
Y4				ALL POS REF SEC 3020, ITEM HKTY1.1.1K, DBR 024257
				OMR1/3/4
Y5				ALL POS REF SEC 3020, ITEM DHKTY1.1.2K, DBR 024268
				FR2
T6				ALL JSC CONS REF SEC 3020, ITEM T44.1K, DBR 024313
H7				ALL MSFC CONS REF SEC 3020, ITEM H46.1K, DBR 024286
				LCC ESA RM. 3R18

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 219131
ITEM NUMBER: KE104.1K

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T8 ALL JSC CONS REF SEC 3020,
ITEM T66.1K, DBR 517193

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/20/04
RESPONSE TRACKING: Z26191 Z2679 Z2818 Z3462 Z3869
Z3882 Z3953 Z4005 Z4217 Z4538
Z5011 Z8721

[PRD] DATABASE RECORD: 16335 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/15/03
INITIAL DATE: 08/30/89
ITEM NUMBER: ED104.1.1E DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 08:31:18

REQUESTER: ER HSFS
SUBREQUESTER: JSC/MG KSC/TA-E
TEST CODE: CKT121 FULLTIME STSALL WSSH

ASSOCIATED DOC: 20007S 20014S 20017S 20027S
TRACKING NO. A4501 COMREV05 KING2001 L201-2 L2678
L3838 MK98 R0404-1 R109-89 R3443
PRIORITY: REQUIRED
RATIONALE: ALTERNATE COMMUNICATION SOURCE AVAILABLE.

1. DESCRIPTION: SPACE SHUTTLE PROGRAM OFFICE (SSPO) (L-5 HOURS)

RESPONSIBLE AGENCY: ER

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,27	T		WSMR EXTEND TO WSSH OCC
K2	7,14,17	M	1	CCAFS/ROCC 45 SW CMDR CON
E3	7,14,17	M	1	CCAFS/ROCC 45 SW CMDR CON

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 16335
ITEM NUMBER: ED104.1.1E

K4	7,14,17	M	1	CCAFS/ROCC NASA MGMT CONS
E5	7,17	M	1,2	PAFB DDMS SOC CMD CONS

NOTE 1: FOR DISTRIBUTION TO LISTED CONSOLES ONLY.
NOTE 2: CONFIGURE CIRCUIT TO CONSOLE AT ALL TIMES.

TECH CONTACT: ER/MIKE GAWEL/321 853-8118

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER WSMR
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/15/03
RESPONSE TRACKING: Z0404-1 Z2708 Z28112 Z3446

[PRD] DATABASE RECORD: 210123 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/14/06
INITIAL DATE: 10/22/90
ITEM NUMBER: HB104.2H DATE LAST CHANGED: 11/20/06
SECTION: 2750 TIME LAST CHANGED: 09:56:46

REQUESTER: MSFC GRC
SUBREQUESTER: JSC
TEST CODE: FULLTIME STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S 20026S
20027S 20028S 20037S
TRACKING NO. COMREV05 KING2001 L06-8-3 L2604 L2750
L3844 R0906-3 R109-89 R2809

1. DESCRIPTION: SPACE SHUTTLE PROGRAM OFFICE (SSPO)

RESPONSIBLE AGENCY: MSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17,26 27,28,37	T		DISTRIBUTION TO HOSC
B2		M	1	EXTEND TO GRC via HOSC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 210123
ITEM NUMBER: HB104.2H

POC: MSFC/PHILIP CAUTHEN/256 544-4204

COMM CONTACT: MSFC/SCOTT SCHUTZENHOFER/256 544-8496

NOTE 1: MSFC WILL EXT CIRCUIT TO GRC IN SUPPORT OF MMT CONTINGENCY SIMS AND FOR STS LAUNCH AND FLIGHT SUPPORT. VOICE LOOP WILL BE CONFIGURED ON EXISTING CIRCUITS FROM L-24 HOURS THROUGH EOM FOR SHUTTLE SUPPORT.

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/14/06
RESPONSE TRACKING: Z2972 Z3869

[PRD] DATABASE RECORD: 586718 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/28/06
INITIAL DATE: 03/28/06
ITEM NUMBER: G104.3G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:29

REQUESTER: GSFC
SUBREQUESTER: JSC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20026S
TRACKING NO. COMREV05 GSFCREV06

1. DESCRIPTION: SPACE SHUTTLE PROGRAM OFFICE (SSPO)

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,26	T		EXT TO GSFC FOR DIST TO NASA HQ

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 586718
ITEM NUMBER: G104.3G

COMM CONTACT: GSFC/AL DUANY/301 286-2721

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/28/06

[PRD] DATABASE RECORD: 328126 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/14/06
INITIAL DATE: 02/07/90
ITEM NUMBER: X104.4X DATE LAST CHANGED: 03/20/07
SECTION: 2750 TIME LAST CHANGED: 10:37:45

REQUESTER: DFRC
SUBREQUESTER: JSC
TEST CODE: CKT121 EAFB FULLTIME STSALL
SUPSIM

ASSOCIATED DOC: 20007S 20026S
TRACKING NO. COMREV05 KING2001 L2604 L2655 L2750
L3624 R0611-5 R109-89 R2809

1. DESCRIPTION: SPACE SHUTTLE PROGRAM OFFICE (SSPO)

RESPONSIBLE AGENCY: DFRC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
1	7,26	T		DCC FOR DIST.
2	7,26	T		OPS MGR. CONS. BLDG. 4800
3	7,26	M		BLDG. 4845 STA 121B21, STA 128B28
4	7,26	M		BLDG. 4833 RM 104 CONSOLE C-2, C-3

TECH CONTACT: DFRC/GEORGE GRIMSHAW/661 276-3425

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/14/06

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 328126
ITEM NUMBER: X104.4X

RESPONSE TRACKING: Z26201 Z2936 Z3621

[PRD] DATABASE RECORD: 302981 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/23/04
INITIAL DATE: 10/22/90
ITEM NUMBER: THK105T DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 08:32:40

REQUESTER: JSC MSFC KSC
SUBREQUESTER: MS131
TEST CODE: CKT125 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S 20037S
TRACKING NO. A106-1 COMREV05 KING2001 L04-2-1 L109-1
L2604 L2750 L2817 L3844 L4731
L4820 L4920 L906-13 R0402-1 R109-89
R8307
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: STAFF ENGINEER (STAFF ENGR)

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17,37	T		MCC FOR DISTRIBUTION
T2	7,14,17,37	T		EXTENSION TO KSC
T3	7,14,17,37	T		EXTENSION TO MSFC

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/23/04
RESPONSE TRACKING: Z0402-2 Z2750 Z2889 Z3869 Z4738
Z4824 Z4916 Z8309

CONTINUED

[PRD] DATABASE RECORD: 302981
ITEM NUMBER: THK105T

[PRD] DATABASE RECORD: 212154
DOCUMENT ID: LLS
ITEM NUMBER: K105.1K
SECTION: 2750

REQUIREMENT STATUS: APPROVED
APPROVAL DATE: 11/09/06
INITIAL DATE: 04/12/91
DATE LAST CHANGED: 11/09/06
TIME LAST CHANGED: 10:38:29

REQUESTER: KSC
SUBREQUESTER: ESA FR2 KSC/MK-SIO OMR1/3/4 OSR1/3/4
TEST CODE: CKT125 S61C04 S61E16 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S 20037S 20044S
TRACKING NO. A5503 COMREV05 KING2001 L203-8A L2604 L2750 L3806 L3844 L3856 L3916 L4524 L4920 R0611-2 R109-89 R26185 R26263 R2658 R2725 R4212 R8307

1. DESCRIPTION: STAFF ENGINEER (STAFF ENGR)

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
1	7,14,17, 37,44	T		CDSC FOR DIST.
2	7	T/M		EXT TO NASA DEBRIS RADAR SITE
				OSR3/4
3				ALL POS REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257
				OMR3/4
4				POS 1-8,11 & 13-18 REF SEC 3020 ITEM DHKTY1.1.2K, DBR 024268

CONTINUED

[PRD] DATABASE RECORD: 212154
ITEM NUMBER: K105.1K

	FR2
	- - - - - - - - - - - - -
5	ALL JSC CONS REF SEC 3020 ITEM T44.1K, DBR 024313
6	ALL MSFC CONS REF SEC 3020 ITEM H46.1K, DBR 024286
	LCC ESA RM 3R18
	- - - - - - - - - - - - -
7	ALL JSC CONS REF SEC 3020 ITEM T66.1K, DBR 517193

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/09/06
RESPONSE TRACKING: Z26191 Z2679 Z2908 Z3819 Z3869
Z3882 Z3953 Z4217 Z4538 Z4916
Z8309

[PRD] DATABASE RECORD: 292711 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/07/06
INITIAL DATE: 10/22/90
ITEM NUMBER: HB105.2H DATE LAST CHANGED: 11/20/06
SECTION: 2750 TIME LAST CHANGED: 09:57:02

REQUESTER: MSFC GRC
SUBREQUESTER: JSC
TEST CODE: MMT STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S 20037S
TRACKING NO. COMREV05 KING2001 L06-8-3 L2604 L2750
L3844 R0609-3 R109-89

1. DESCRIPTION: STAFF ENGINEER (STAFF ENGR)

RESPONSIBLE AGENCY: MSFC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 292711
ITEM NUMBER: HB105.2H

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17,37	T		COMM. BLDG. 4207 FOR DIST. TO HOSC.
B2	7,14,17	M	1	EXTEND TO GRC VIA HOSC

NOTE 1: MSFC WILL EXTEND THE CIRCUIT TO GRC IN SUPPORT OF MMT CONTINGENCY SIMS AND FOR STS LAUNCH & FLIGHT SUPPORT. VOICE LOOP WILL BE CONFIGURED ON EXISTING CIRCUITS FROM L-24 HOURS THROUGH EOM FOR SHUTTLE SUPPORT.

POC: MSFC/PHILIP CAUTHEN/256 544-4204
COMM CONTACT: MSFC/SCOTT SCHUTZENHOFER/256 544-8496

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/14/06
RESPONSE TRACKING: Z2972 Z3869

[PRD] DATABASE RECORD: 194391 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/09/05
INITIAL DATE: 03/12/91
ITEM NUMBER: TGHKXY106T DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 08:37:25

REQUESTER: JSC GSFC MSFC
KSC DFRC NASA HQ
SUBREQUESTER: JSC/AP
TEST CODE: CKT126 FULLTIME RTLS STSALL
SUPSIM TVPLAN

ASSOCIATED DOC: 20007S 20014S 20017S 20026S
20027S 20028S
TRACKING NO. COMREV05 KING2001 L002-16 L01-10-1 L03-9-1
L04-4-1 L04-9-1 L05-2-3 L102-10 L2604
L3712 L801-1 L801-1A R0404-4 R0502-4
R108-5 R109-89 R26101 R2644 R2809

CONTINUED

[PRD] DATABASE RECORD: 194391
ITEM NUMBER: TGHKXY106T

R8903 R9001 RTF114-12

1. DESCRIPTION: SUPPORT AUDIO

RESPONSIBLE AGENCY: JSC

SUPPORT AUDIO CIRCUITS ARE USED FOR LIVE, MULTI-LOCATION, QUESTION AND ANSWER PARTICIPATION IN PRESS CONFERENCES AND FOR FEEDS OF COMMENTARY AND AIR-TO-GROUND VOICE USED IN ORIGINATION OF MISSION AUDIO AND NASA SELECT AUDIO.

SEVEN DUPLEX, VOICE-GRADE TERRESTRIAL CIRCUITS SHALL BE TERMINATED IN MCC VOICE CONTROL AS FOLLOWS:

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17,26, 27,28			SUPPORT AUDIO
T1.1	" "	T	1	EXTEND TO KSC
T1.2	" "	T	1	EXTEND TO JSC BLDG 2S, RM 210
T2	26			DFRC SUPPORT AUDIO
T2.1		T	1	EXTEND TO DFRC
T2.2		T	1	EXTEND TO JSC BLDG 2S, RM 210
T3				GSFC SUPPORT AUDIO
T3.1		T	1	EXTEND TO GSFC
T3.2		T	1	EXTEND TO JSC BLDG 2S, RM 210
T4				MSFC SUPPORT AUDIO
T4.1		T	1	EXTEND TO MSFC
T4.2		T	1	EXTEND TO JSC BLDG 2S, RM 210
T5				NASA HQS SUPPORT AUDIO
T5.1		T	1,2	EXTEND TO NASA HQS
T5.2		T	1	EXTEND TO JSC BLDG 2S, RM 210
T6		T		JPL SUPPORT AUDIO
T6.1		T	1	EXTEND TO JPL
T6.2		T	1	EXTEND TO JSC BLDG 2S SOUTH, RM 210

NOTE: 1. THIS COMM ALSO CONTAINED IN THE FLT PRD. (REF: FLS2750, ITEM T49.1T, DBR 373552).

CONTINUED

[PRD] DATABASE RECORD: 194391
ITEM NUMBER: TGHKXY106T

2. COMMUNICATIONS CARRIER PROVIDES BRIDGE SO GSFC CAN ACCESS NASA HQS SUPPORT AUDIO.

TECH CONTACT: JSC/AP/JOHN STOLL/281 483-0769
COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/09/05
RESPONSE TRACKING: Z0404-4 Z108-7 Z3712 Z8906 Z9001 ZRTF114-9

[PRD] DATABASE RECORD: 12647 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/03/90
INITIAL DATE: 09/15/83
ITEM NUMBER: K106.1K DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 08:37:45

REQUESTER: KSC
SUBREQUESTER: JSC KSC/XA-E1
TEST CODE: CKT126 FULLTIME RTLS STSALL TVPLAN

ASSOCIATED DOC: 20007S 20014S 20017S 20026S 20027S 20028S
TRACKING NO. COMREV05 DB98 KING2001 L3806 R109-89 R26128 R2809
PRIORITY: REQUIRED
RATIONALE: ALTERNATE COMMUNICATION SOURCES AVAILABLE.

1. DESCRIPTION: SUPPORT AUDIO

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17,26 27,28	T		CDSC FOR DIST.

CONTINUED

[PRD] DATABASE RECORD: 12647
ITEM NUMBER: K106.1K

K2	7,14,17,26 27,28	T	1	CDSC FOR DIST.
T3	7,14,17,26 27,28	T		KSC NEWS FACILITY

NOTE 1: WILLIAM JOHNSON, XA-E1 IS DELEGATED THE JSC PAO/JSC COMM ACCESS CONTROLLER FOR DESIGNATING "TALK/MON" DROPS AT KSC.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/03/90
RESPONSE TRACKING: Z2668 Z3819

[PRD] DATABASE RECORD: 189838 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/17/88
INITIAL DATE: 05/17/88
ITEM NUMBER: X106.2X DATE LAST CHANGED: 03/20/07
SECTION: 2750 TIME LAST CHANGED: 10:38:46

REQUESTER: DFRC
SUBREQUESTER: JSC
TEST CODE: CKT126 EAFB FULLTIME RTLS
STSALL SUPSIM TVPLAN

ASSOCIATED DOC: 20007S 20014S 20017S 20026S
20027S 20028S
TRACKING NO. COMREV05 L2604 R26128 R2809

1. DESCRIPTION: SUPPORT AUDIO

RESPONSIBLE AGENCY: DFRC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17,26 27,28	T		DISTRIBUTION AT DFRC
T2	7,14,17,26 27,28	T		AUDIO TECH B-4800, RM 2022

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 189838
ITEM NUMBER: X106.2X

TECH CONTACT: DFRC/GEORGE GRIMSHAW/661 276-3425

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/27/88
RESPONSE TRACKING: Z2651

[PRD] DATABASE RECORD: 314914 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/16/98
INITIAL DATE: 05/17/88
ITEM NUMBER: G106.3G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:23

REQUESTER: GSFC
SUBREQUESTER: JSC
TEST CODE: CKT126 FULLTIME RTLS STSALL
SUPSIM TVPLAN

ASSOCIATED DOC: 20007S 20014S 20017S 20026S
20027S 20028S
TRACKING NO. COMREV05 L2604 L801-1 R26148 R2809
R8903 R9003

1. DESCRIPTION: SUPPORT AUDIO

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17,26-28	T		GSFC VOICE FOR TEST AND TROUBLESHOOTING
T2	7,14,17,26-28	T	1	NASA HEADQUARTERS 300 E ST SW WASHINGTON DC, TV CONTROL ROOM
T3	7,14,17,26-28	T		EXT TO PRESS CONF AREA AS REQUIRED

NOTE 1: COMMON CARRIER PROVIDES A BRIDGE ON THIS CIRCUIT SO
BOTH GSFC AND NASA HQ HAVE ACCESS.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 314914
ITEM NUMBER: G106.3G

COMM CONTACT: GSFC/AL DUANY/301 286-2721

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/16/98
RESPONSE TRACKING: Z2647 Z9003

[PRD] DATABASE RECORD: 357183 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/17/88
INITIAL DATE: 05/17/88
ITEM NUMBER: H106.4H DATE LAST CHANGED: 11/20/06
SECTION: 2750 TIME LAST CHANGED: 09:57:17

REQUESTER: MSFC
SUBREQUESTER: JSC
TEST CODE: FULLTIME RTLS STSALL SUPSIM
TVPLAN

ASSOCIATED DOC: 20007S 20014S 20017S 20026S
20027S 20028S
TRACKING NO. COMREV05 L2604 R26128 R2809

1. DESCRIPTION: SUPPORT AUDIO

RESPONSIBLE AGENCY: MSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17,26 27,28	T		COMM BLDG. 4207 FOR DIST.
T2	7,14,17,26 27,28	T		PRESS CONFERENCE AUDITORIUM

POC: MSFC/PHILIP CAUTHEN/256 544-4204

COMM CONTACT: MSFC/SCOTT SCHUTZENHOFER/256 544-8496

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 357183
ITEM NUMBER: H106.4H

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/01/88
RESPONSE TRACKING: Z26129

[PRD] DATABASE RECORD: 309010 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/09/05
INITIAL DATE: 09/23/88
ITEM NUMBER: TGKX107T DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 08:39:18

REQUESTER: JSC GSFC KSC
DFRC
SUBREQUESTER: JSC/MG
TEST CODE: CKT127 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20017S 20026S 20027S
20028S MODE8
TRACKING NO. A5503 COMMREV05 L05-2-3 L2604 L2678
L4601 R0502-4 R2809

1. DESCRIPTION: SURGEON

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,17,26,27 28,MODE8	T		MCC FOR DISTRIBUTION
DT2	7,17,26,27 28,MODE8	T		EXTEND TO KSC
T3	7,26	T		EXTEND TO DFRC
T4	7,27	T		EXTEND TO WSMR VIA GSFC/WSC

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 309010
ITEM NUMBER: TGKX107T

RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/09/05
RESPONSE TRACKING: Z26212 Z4618

[PRD] DATABASE RECORD: 304171 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/24/92
INITIAL DATE: 05/17/88
ITEM NUMBER: KE107.1K DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 08:41:18

REQUESTER: KSC ER
SUBREQUESTER: FR1/3/4 SOC
TEST CODE: CKT127 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20017S 20026S 20027S
20028S MODE8
TRACKING NO. COMREV05 L2604 L4601 R2657 R2809

1. DESCRIPTION: SURGEON

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,17,26,27 28,MODE8	T		CDSC FOR DISTRIBUTION
T2	7,17,26,27 28	T	1	LCC BIOMED, CONSOLE AC4 FR1/3/4
DT3	7,17,26,27 28,MODE8	T		EXTEND TO XY

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

NOTE 1: TO BE TERMINATED IN A HANDSET (CRADLE PHONE) AND ON THE OPERATING POSITION'S COMM PANEL.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 304171
ITEM NUMBER: KE107.1K

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/24/92
RESPONSE TRACKING: Z4627

[PRD] DATABASE RECORD: 13784 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/14/99
INITIAL DATE: 08/21/89
ITEM NUMBER: ED107.1.1E DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 08:42:03

REQUESTER: ER HSFS
SUBREQUESTER: JSC/MG SOC
TEST CODE: CKT127 STSALL WSSH

ASSOCIATED DOC: 20007S 20017S 20026S 20027S
20028S MODE8
TRACKING NO. COMREV05 L2678 L4601 R2657 R2809
R3433 R9305

1. DESCRIPTION: SURGEON

RESPONSIBLE AGENCY: ER

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
D1	7,17,26,27 28,MODE8	T		CCAFS ROCC LRCC, PAFB DOD SOC
T2	7,27	T		EXT WSMR TO WSSH OCC

TECH CONTACT: ER/MIKE GAWEL/321 853-8118

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER WSMR
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/14/99
RESPONSE TRACKING: Z2708 Z3422 Z4626 Z9305

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 13784
ITEM NUMBER: ED107.1.1E

[PRD] DATABASE RECORD: 296787 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/07/90
INITIAL DATE: 02/07/90
ITEM NUMBER: X107.2X DATE LAST CHANGED: 03/20/07
SECTION: 2750 TIME LAST CHANGED: 10:39:45

REQUESTER: DFRC
SUBREQUESTER: JSC
TEST CODE: CKT127 EAFB STSALL

ASSOCIATED DOC: 20007S 20026S
TRACKING NO. COMREV05 L2646 R2809 R3624

1. DESCRIPTION: SURGEON

RESPONSIBLE AGENCY: DFRC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,26	T		DCC FOR DISTRIBUTION AND EXTENSION
T2	7,26	T		EMSS COORDINATION, DFRC CONTROL ROOM.

TECH CONTACT: DFRC/GEORGE GRIMSHAW/661 276-3425

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/07/90
RESPONSE TRACKING: Z26156 Z3621

[PRD] DATABASE RECORD: 586757 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/10/06
INITIAL DATE: 04/10/06
ITEM NUMBER: G107.3G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:29

CONTINUED

[PRD] DATABASE RECORD: 586757
ITEM NUMBER: G107.3G

REQUESTER: GSFC
SUBREQUESTER: JSC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20017S 20026S 20027S
20028S MODE8
TRACKING NO. COMREV05 GSFCREV06

1. DESCRIPTION: SURGEON

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
G1	7,17,26,27 28,MODE8			EXT TO WSSH/WSMR/WSC

COMM CONTACT: GSFC/AL DUANY/301 286-2721

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/10/06

[PRD] DATABASE RECORD: 16336 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/28/05
INITIAL DATE: 08/21/89
ITEM NUMBER: T107.3.1Z DATE LAST CHANGED: 04/03/07
SECTION: 2750 TIME LAST CHANGED: 12:27:24

REQUESTER: JSC
SUBREQUESTER: JSC/MG KSC/PH-L
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20007S 20027S
TRACKING NO. COMREV05 DB98 L2678 R0501-1 R0504-8
R3433
PRIORITY: REQUIRED
RATIONALE: TERTIARY LANDING SITE. BECOMES MANDATORY FOR LANDING
AT WSSH.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 16336
ITEM NUMBER: T107.3.1Z

1. DESCRIPTION: SURGEON

RESPONSIBLE AGENCY: WSTF

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,27	T		EXTEND TO WSSH OIS FOR DIST

POC: WSTF/ROBERT MITCHELL/505 524-5774
TECHNICAL CONTACT: KSC/PH-L/LOU GARCIA/321 861-6196
KSC/USK-426/MIKE KUTA/321 861-3890

COMM CONTACT: WSTF/ZIGGY ZAPEN/505 524-5556

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/15/05
RESPONSE TRACKING: Z0504-5 Z2705 Z3422

[PRD] DATABASE RECORD: 324839 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/26/88
INITIAL DATE: 08/26/88
ITEM NUMBER: T108X DATE LAST CHANGED: 03/20/07
SECTION: 2750 TIME LAST CHANGED: 10:40:24

REQUESTER: JSC
TEST CODE: CKT129 EAFB STSALL TVPLAN

ASSOCIATED DOC: 20026S
TRACKING NO. A5503 L2646 R26129 R26270 R26272
R2809

1. DESCRIPTION: TELEVISION DIRECTOR (DFRC) (TV DIR)

RESPONSIBLE AGENCY: DFRC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 324839
ITEM NUMBER: T108X

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	26	T		DCC FOR DIST
T2	26	T		PRODUCER AT DRYDEN TV
T3	26	T		DIRECTOR AT DRYDEN TV
T4	26	T		TECH DIRECTOR AT DRYDEN TV
T5	26	T		AUDIO TECH B-4800, RM 2022
T6	26	T		MICROWAVE, ROOF-BLDG. 4800
T7	26	T		AUDIO ENGINEER AT ISF AUDIT
T8	26	T		CAMERA, ROOF BLDG. 4800
T9	26	T		LONG RANGE OPTICS
T10	26	T		TV OPS. MGR. AT DRYDEN TV

TECH CONTACT: DFRC/GEORGE GRIMSHAW/661 276-3425

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/26/88
RESPONSE TRACKING: Z26156

[PRD] DATABASE RECORD: 187686 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/28/05
INITIAL DATE: 05/03/90
ITEM NUMBER: GKT109G DATE LAST CHANGED: 01/16/07
SECTION: 2750 TIME LAST CHANGED: 10:28:33

REQUESTER: GSFC KSC JSC
SUBREQUESTER: GSFC/700 GSFCR1
TEST CODE: CKT132 STSALL SUPSIM WSSH

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
TRACKING NO. COMREV05 GSFCREV06 L01-5-1 L2604 L2805
L308-1 L3516 L710-2 L801-1 L801-1A

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 187686
ITEM NUMBER: GKT109G

L908-7 R0501-1 R104-1 R2809 R3433
R5808 R8702 R8903 R9001

1. DESCRIPTION: TRACK COORD

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,26,27,28	T		EXT. TO KSC
T2	7	T		EXT. TO WSC/WSSH/WSMR
G3	7	T		MILA (S-BAND) KSC VIA CDSC
T4	7	T		WFF RADAR NET (FPS-16/FPQ-6)
T5	7	T		GSFC NIC
T6	7	T		EXTEND TO JSC

COMM CONTACT: GSFC/AL DUANY/301 286-2721

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/28/05
RESPONSE TRACKING: Z0501-1 Z104-2 Z2878 Z3422 Z3523
Z5503 Z5808 Z8703 Z9003

[PRD] DATABASE RECORD: 197525 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/02/99
INITIAL DATE: 07/24/89
ITEM NUMBER: KE109.1EK DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 08:45:25

REQUESTER: KSC ER
SUBREQUESTER: JSC/MG KSC/TA-E-A
TEST CODE: CKT132 EAFB STSALL SUPSIM

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
TRACKING NO. A5503 COMREV05 L2604 L2678 L2727

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 197525
ITEM NUMBER: KE109.1EK

L2805 L2838 L6306 L6709 L804-2
MK98 R2809 R4218 R9102 R9311
SHAW94
PRIORITY: REQUIRED
RATIONALE: VOICE CIRCUIT FOR COORDINATION OF C-BAND TRACKING SUPPORT. BACKUP SATELLITE PHONE.

1. DESCRIPTION: TRACKING COORDINATION

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,26,27,28	T		CD&SC FOR DISTRIBUTION
K2	7,26,27,28	T		EXT TO ER

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB ER USAKA
WR WSMR
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/02/99
RESPONSE TRACKING: Z2686 Z2708 Z2746 Z28112 Z2878
Z4225 Z6706 Z6923 Z9313

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/02/99
RESPONSE TRACKING: Z6706 Z7407 Z9313

[PRD] DATABASE RECORD: 586758 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/10/06
INITIAL DATE: 04/10/06
ITEM NUMBER: E109.1.1E DATE LAST CHANGED: 05/07/07

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 586758
ITEM NUMBER: E109.1.1E

SECTION: 2750 TIME LAST CHANGED: 08:04:37

REQUESTER: ER
TEST CODE: CKT132 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
TRACKING NO. COMREV05

1. DESCRIPTION: TRACKING COORDINATION (L-2 DAYS)

RESPONSIBLE AGENCY: ER

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7	T		ER ROCC (CCAFS), LRCC
T2	7	T		ER RADAR & RTCS CONTROLLER
T3	7	T		EXT. TO VAFB COMM BLDG. FOR DIST. AND EXT TO AFFTC AND USAKA
T4	7	T		WR RCC
T5	7	T		WR DATA SWITCH/RADAR
T6	7	T		EXT TO AFFTC COMM BLDG. FOR DIST
T7	7	T		AFFTC COMPUTER CENTER
T8	7	T		AFFTC RADAR CONTROLLER
T9	7	T		EXT. TO USAKA COMM BLDG FOR DIST
T10	7	T		USAKA (KMR) RADAR CONTROLLER
T11	7	T		WSMR BLDG 300 FOR DIST
K12	7,26,27,28	M		CCAFS. LRCC, NASA PROJECT CONS
T13	7,26	T		EXT AFFTC TO DFRC

TECH CONTACT: ER/MIKE GAWEL/321 853-8118

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/07/07

[PRD] DATABASE RECORD: 195782 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/22/04
INITIAL DATE: 07/06/89
ITEM NUMBER: TX109.2T DATE LAST CHANGED: 04/28/06

CONTINUED

[PRD] DATABASE RECORD: 195782
ITEM NUMBER: TX109.2T

SECTION: 2750 TIME LAST CHANGED: 08:46:47

REQUESTER: JSC DFRC
TEST CODE: CKT132 STSALL SUPSIM

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 L04-4-1 L2604 L2805 R0404-4

1. DESCRIPTION: TRACKING COORDINATION

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7	T		MCC FOR DISTRIBUTION
T2	7	T		JSC EXTEND TO DFRC

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/22/04
RESPONSE TRACKING: Z0404-4 Z2878

[PRD] DATABASE RECORD: 225433 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/06/89
INITIAL DATE: 07/06/89
ITEM NUMBER: X109.2.1X DATE LAST CHANGED: 03/20/07
SECTION: 2750 TIME LAST CHANGED: 10:41:19

REQUESTER: DFRC
SUBREQUESTER: JSC KSC/PH-L
TEST CODE: CKT132 EAFB STSALL

ASSOCIATED DOC: 20007S 20026S
TRACKING NO. COMREV05 L2655 L2805 R2809

1. DESCRIPTION: TRACKING COORDINATION

CONTINUED

[PRD] DATABASE RECORD: 225433
ITEM NUMBER: X109.2.1X

RESPONSIBLE AGENCY: DFRC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,26	T		DFRC (FPS-16)

POC: DFRC/GEORGE GRIMSHAW/661 276-3425
TECH CONTACT: KSC/PH-L/DEAN SCHAAF/321 861-9311
KSC/USK-426/MIKE KUTA/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/06/89
RESPONSE TRACKING: Z26201 Z2878

[PRD] DATABASE RECORD: 320165 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/11/05
INITIAL DATE: 09/23/88
ITEM NUMBER: TGHKX110T DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 08:48:31

REQUESTER: JSC GSFC MSFC
KSC DFRC
SUBREQUESTER: JPL JSC/MG
TEST CODE: CKT136 FULLTIME RTLS STSALL
SUPSIM TVPLAN

ASSOCIATED DOC: 20007S 20014S 20017S 20026S
20028S
TRACKING NO. A5503 COMREV05 L04-4-1 L05-2-4 L210-1
L2604 L2678 L5309 L801-1 R0404-4
R0502-5 R26129 R2621 R2809 R8903

1. DESCRIPTION: VIDEO OPERATIONS (VIDEO OPS)

RESPONSIBLE AGENCY: JSC

CONTINUED

[PRD] DATABASE RECORD: 320165
ITEM NUMBER: TGHKX110T

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17,26,28	T		MCC FOR DISTRIBUTION
T2	7,14,17,26,28	T		EXT. TO DFRC
T3	7,14,17,26,28	T		EXT. TO KSC
T4	7,14,17,26,28	T		EXT. TO GSFC
T5	7,14,17,26,28	T		EXT. TO MSFC
T6	7,14,17,26,28	T		EXT. TO JPL

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/11/05
RESPONSE TRACKING: Z0404-4 Z26212 Z5310 Z8906

[PRD] DATABASE RECORD: 299849 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/02/92
INITIAL DATE: 11/12/91
ITEM NUMBER: X110.1X DATE LAST CHANGED: 03/20/07
SECTION: 2750 TIME LAST CHANGED: 10:42:27

REQUESTER: DFRC
SUBREQUESTER: JSC
TEST CODE: CKT136 EAFB FULLTIME RTLS
STSALL SUPSIM TVPLAN

ASSOCIATED DOC: 20007S 20014S 20017S 20026S
20028S
TRACKING NO. COMREV05 L111-10 L210-1 L2604 L4419
L5309 R26129 R2809

1. DESCRIPTION: VIDEO OPERATIONS (VIDEO OPS)

RESPONSIBLE AGENCY: DFRC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 299849
ITEM NUMBER: X110.1X

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17,26,28	T		DCC FOR DIST.
T2	26	T		DFRC, TV CONTROL RM

TECH CONTACT: DFRC/GEORGE GRIMSHAW/661 276-3425

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/01/92
RESPONSE TRACKING: Z2651 Z4460 Z5310

[PRD] DATABASE RECORD: 357970 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/02/92
INITIAL DATE: 11/13/91
ITEM NUMBER: K110.2K DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 08:49:08

REQUESTER: KSC
SUBREQUESTER: JSC
TEST CODE: CKT136 FULLTIME RTLS STSALL
SUPSIM TVPLAN

ASSOCIATED DOC: 20007S 20014S 20017S 20026S
20028S
TRACKING NO. A5503 COMREV05 L111-10 L111-7 L210-02
L210-1 L2604 L4414 L4419 L5222
L5309 R26130 R2809

1. DESCRIPTION: VIDEO OPERATIONS (VIDEO OPS)

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17,26,28	T		CDSC FOR DIST.
T2	7,14,17,26,28	T		KSC NEWS FAC, EXEC PROD

CONTINUED

[PRD] DATABASE RECORD: 357970
ITEM NUMBER: K110.2K

T3	7,14,17,26,28	T	KSC NEWS FAC, TV DIR
T4	7,14,17,26,28	T	KSC NEWS FAC, TECH DIR
T5	28	T	KSC NF MER CONSOLE

COMM CONTACT: KSC/MONIQUE/MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/02/92
RESPONSE TRACKING: Z2668 Z5046 Z5211 Z5223 Z5310

[PRD] DATABASE RECORD: 356434 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/16/98
INITIAL DATE: 08/21/89
ITEM NUMBER: G110.3G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:25

REQUESTER: GSFC
SUBREQUESTER: JSC/MG NASA HQ
TEST CODE: CKT136 FULLTIME RTLS STSALL
SUPSIM TVPLAN

ASSOCIATED DOC: 20007S 20014S 20017S 20026S
20028S
TRACKING NO. A5503 COMREV05 L210-1 L2604 L2678
L5309 L801-1 L905-5 L908-8 R26130
R2621 R2809 R2822 R3406 R3433
R8903 R9003

1. DESCRIPTION: VIDEO OPERATIONS (VIDEO OPS)

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17,26,28	T		EXT. TO NASA HQ.
T2	7,14,17,26,28	T		GSFC,BLDG. 8-N2,CALL DIR.
T3	7,14,17,26,28	T		GSFC,BLDG. 8-N4,CALL DIR.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 356434
ITEM NUMBER: G110.3G

T4	7,14,17,26,28	T	NASA HQ, 300 E ST SW WASHINGTON DC, TV CONTROL ROOM

COMM CONTACT: GSFC/AL DUANY/301 286-2721

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/16/98
RESPONSE TRACKING: Z2678 Z2733 Z28120 Z3422 Z5310
Z9003 Z9006

[PRD] DATABASE RECORD: 10326 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/02/92
INITIAL DATE: 05/17/88
ITEM NUMBER: H110.4H DATE LAST CHANGED: 11/20/06
SECTION: 2750 TIME LAST CHANGED: 09:57:45

REQUESTER: MSFC
SUBREQUESTER: JSC
TEST CODE: RTLS STSALL SUPSIM TVPLAN

ASSOCIATED DOC: 20007S 20014S 20017S 20026S
20028S
TRACKING NO. COMREV05 L210-1 L2604 L5309 R26130
R2621 R2626 R2809

1. DESCRIPTION: VIDEO OPERATIONS (VIDEO OPS)

RESPONSIBLE AGENCY: MSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17,26,28	T	1	BLDG 4207 FOR DISTR.
T2	7,14,17,26,28	T	1	TERM AT PRESS CONF CONTROL RM
T3	7,14,17,26,28	T	1	TERM AT VIDEO CIRCUIT SWITCH- ING AREA

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 10326
ITEM NUMBER: H110.4H

NOTE 1: CKT USED FOR FLIGHT READINESS REVIEWS (FRR'S), ALL SHUTTLE PRESS CONFERENCES AND MSFC POCC MISSION.

POC: MSFC/PHILIP CAUTHEN/256 544-4204
COMM CONTACT: MSFC/SCOTT SCHUTZENHOFER/256 544-8496

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/02/92
RESPONSE TRACKING: Z26129 Z5310

[PRD] DATABASE RECORD: 243236 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/27/95
INITIAL DATE: 08/30/89
ITEM NUMBER: E111E DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 08:49:52

REQUESTER: ER
SUBREQUESTER: I-PH-B KSC/TA-E-A
TEST CODE: CKT137 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S
TRACKING NO. COMREV05 L2607 R3443

1. DESCRIPTION: WEATHER COMMENTARY (L-5 HOURS)

RESPONSIBLE AGENCY: ER

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,14,17	M		CCAFS, ROCC NASA MGT. CONSOLE
K2	7	M		CCAFS, LRCC, NASA PROJECT CON.
K3	7	M		CCAFS, ROCC, NASA RANGE SAFETY REP CON.

TECH CONTACT: ER/MIKE GAWEL/321 853-8118

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 243236
ITEM NUMBER: E111E

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/22/95
RESPONSE TRACKING: Z2676 Z2746 Z3428 Z6923

[PRD] DATABASE RECORD: 263418 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/16/94
INITIAL DATE: 04/12/91
ITEM NUMBER: KET112K DATE LAST CHANGED: 06/23/06
SECTION: 2750 TIME LAST CHANGED: 12:58:09

REQUESTER:	KSC	ER	JSC	
SUBREQUESTER:	FR2	I-PH-B	JSC/WS8	KSC/MK-SIO
	OMR1/3/4	OSR1/3/4		
TEST CODE:	CKT138	STSALL	SUPSIM	

ASSOCIATED DOC:	20007S	20014S	20017S	20028S	
TRACKING NO.	COMREV05	L2604	L3916	L5910	L908-1
	R26185	R26263	R2658	R2715	R2809
	R2833	R3114	R9901		

1. DESCRIPTION: WEATHER AIRCRAFT (KSC) (126.65) (CH 9900)

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
Y1	7,14,17,28	T		CDSC FOR DIST
T2	7,28	T		CDSC FOR EXT. TO CCAFS
T3	7,28	T		CDSC EXT. TO JSC
T4	7,28	M		PATCH UPON CREW REQUEST TO ORBITER IC-B
T5	7,28	T		SLF, RM. 5, LACB
T6	7,28	T		SLF TOWER
				OSR1/3/4

CONTINUED

[PRD] DATABASE RECORD: 263418
ITEM NUMBER: KET112K

- - - - - - - - - - - - -

Y7 ALL POS REF SEC 3020
ITEM HKTY1.1.1K, DBR 024257

OMR1/3/4
- - - - - - - - - - - - -

Y8 ALL POS REF SEC 3020
ITEM DHKTY1.1.2K, DBR 024268

FR2
- - - - - - - - - - - - -

T9 ALL JSC CONS REF SEC 3020
ITEM T44.1K, DBR 024313

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/16/94
RESPONSE TRACKING: Z26191 Z2679 Z2711 Z2857 Z3110
Z3953 Z5910

[PRD] DATABASE RECORD: 339656 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/16/94
INITIAL DATE: 05/17/88
ITEM NUMBER: E112.1E DATE LAST CHANGED: 06/23/06
SECTION: 2750 TIME LAST CHANGED: 12:58:12

REQUESTER: ER
SUBREQUESTER: I-PH-B JSC/WS8 KSC
TEST CODE: CKT138 L-1DAY RTLS STSALL
SUPSIM

ASSOCIATED DOC: 20007S 20028S
TRACKING NO. A5503 COMREV05 L2604 L5910 L908-1
R2809 R9901

CONTINUED

[PRD] DATABASE RECORD: 339656
ITEM NUMBER: E112.1E

1. DESCRIPTION: WEATHER NET VHF 126.65 MHZ (KSC)

RESPONSIBLE AGENCY: ER

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,28	T		CCAFS FOR DIST
T2	7,28	M		RWO

TECH CONTACT: ER/MIKE GAWEL/321 853-8118

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/16/94
RESPONSE TRACKING: Z5910

[PRD] DATABASE RECORD: 336969 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/16/94
INITIAL DATE: 05/17/88
ITEM NUMBER: T112.2T DATE LAST CHANGED: 06/23/06
SECTION: 2750 TIME LAST CHANGED: 12:58:12

REQUESTER: JSC
SUBREQUESTER: I-PH-B JSC/WS8
TEST CODE: CKT138 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20028S
TRACKING NO. COMREV05 L2604 L5910 L908-1 R2809
R9901

1. DESCRIPTION: AIR WEATHER NET VHF 126.65 MHZ (KSC)

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,28	T		MCC FOR DIST.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 336969
ITEM NUMBER: T112.2T

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/16/94
RESPONSE TRACKING: Z5910

[PRD] DATABASE RECORD: 1337 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/11/04
INITIAL DATE: 05/21/85
ITEM NUMBER: TX113T DATE LAST CHANGED: 05/05/06
SECTION: 2750 TIME LAST CHANGED: 08:48:01

REQUESTER: JSC DFRC
SUBREQUESTER: I-PH-B
TEST CODE: CKT144 S51G02 STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. COMREV05 L004-1 L04-6-2 L2951 L3405
L3521 L5910 R0406-4 R2809

1. DESCRIPTION: WEATHER AIRCRAFT UHF (279.0) (DFRC)

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	26	T		MCC FOR DIST.
T2	26	T		EXTEND TO DFRC, BLDG 4800

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/11/04

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 1337
ITEM NUMBER: TX113T

RESPONSE TRACKING: Z0406-4 Z2989 Z3447 Z3538 Z5910

[PRD] DATABASE RECORD: 1342 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/11/04
INITIAL DATE: 08/26/88
ITEM NUMBER: X113.1X DATE LAST CHANGED: 03/20/07
SECTION: 2750 TIME LAST CHANGED: 10:44:36

REQUESTER: DFRC
SUBREQUESTER: I-PH-B JSC
TEST CODE: CKT144 EAFB S51G02 STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. COMREV05 L04-6-2 L2646 L2951 L3524
L5910 R0406-4 R2809

1. DESCRIPTION: WEATHER AIRCRAFT UHF (279.0) (DFRC)

RESPONSIBLE AGENCY: DFRC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	26	T		EXTEND TO BLDG 4824

TECH CONTACT: DFRC/GEORGE GRIMSHAW/661 276-3425

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/02/05
RESPONSE TRACKING: Z26156 Z2989 Z3528 Z5910

[PRD] DATABASE RECORD: 17712 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/19/04
INITIAL DATE: 02/24/89
ITEM NUMBER: TG114GT DATE LAST CHANGED: 11/16/06

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 17712
ITEM NUMBER: TG114GT

SECTION: 2750 TIME LAST CHANGED: 07:13:14

REQUESTER: JSC GSFC
SUBREQUESTER: I-PH-B JSC/MG
TEST CODE: CKT203 STSALL

ASSOCIATED DOC: 20027S
TRACKING NO. COMREV05 L04-4-2 L2953 L5910 R0404-2

1. DESCRIPTION: AIRCRAFT WEATHER (VHF 126.5 MHZ) (WSSH)

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	27	T	1	EXTEND TO GSFC FOR DIST.

COMM CONTACT: JSC/KEN JONES/281 483-7671

NOTE 1: JSC TO USE MOTOROLA TONE KEYING TO REMOTELY KEY WSSH VHF TRANSCEIVER.

NOTE 2: WSSH CAN ACCEPT VOICE ONLY AND CREATE KEYING LOCALLY USING WORD RECOGNITION ALLOWING CAPCOM TO REMOTELY KEY THE VHF TRANSCEIVER. THIS IS A SHARED CIRCUIT WITH AIR BOSS. WEATHER A/G WILL ACTIVATE DAY OF LAUNCH AND TERMINATE AT WHEEL STOP.

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/19/04

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/19/04

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 17712
ITEM NUMBER: TG114GT

RESPONSE TRACKING: Z0404-2 Z5910

[PRD] DATABASE RECORD: 576316 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/11/06
INITIAL DATE: 07/11/06
ITEM NUMBER: G114.1G DATE LAST CHANGED: 04/04/07
SECTION: 2750 TIME LAST CHANGED: 07:12:31

REQUESTER: GSFC
SUBREQUESTER: JSC
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. COMREV05 GSFCREV06 L04-4-2 R0404-2 R0501-1
R0501-1A R0504-8

1. DESCRIPTION: AIR WEATHER NET VHF 126.5 MHZ (WSSH)

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	27	T	1	EXTEND TO WSC/WSMR/WSSH

NOTE 1 WSSH CAN ACCEPT VOICE ONLY AND CREATE KEYING LOCALLY USING WORD RECOGNITION ALLOWING CAPCOM TO REMOTELY KEY THE VHF TRANSCEIVER. THIS IS A SHARED CIRCUIT WITH AIR BOSS. WEATHER A/G WILL ACTIVATE DAY OF LAUNCH AND TERMINATE AT WHEEL STOP.

COMM CONTACT: GSFC/AL DUANY/301 286-2721
WSTF/ZIGGY ZAPEN/505 524-5556

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/11/06
RESPONSE TRACKING: Z0404-8 Z0501-1

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 17713 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/15/05
INITIAL DATE: 05/31/90
ITEM NUMBER: T114.1.1Z DATE LAST CHANGED: 04/03/07
SECTION: 2750 TIME LAST CHANGED: 12:27:50

REQUESTER: JSC
SUBREQUESTER: I-PH-B JSC/MG WSTF
TEST CODE: CKT203 STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. A5503 COMREV05 L2953 L3552 L5910
L902-16 R0501-1 R0504-8

1. DESCRIPTION: AIR WEATHER NET (126.5 MHZ) (WSSH)
(WEATHER AIR TO GROUND A/G)

RESPONSIBLE AGENCY: WSTF

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	27	M		EXTEND TO WSSH OIS FOR DIST.

NOTE 1: WSSH CAN ACCEPT VOICE ONLY AND CREATE KEYING LOCALLY USING WORD RECOGNITION ALLOWING CAPCOM TO REMOTELY KEY THE VHF TRANSCEIVER. THIS IS A SHARED CIRCUIT WITH EMS COORD. WEATHER A/G WILL ACTIVATE DAY OF LAUNCH AND TERMINATE AT WHEEL STOP.

POC: WSTF/ROBERT MITCHELL/505 524-5774

COMM CONTACT: WSTF/ZIGGY ZAPEN/505 524-5556

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/15/05
RESPONSE TRACKING: Z0504-5 Z2992 Z3555 Z5310

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 17714 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/02/98
INITIAL DATE: 05/31/90
ITEM NUMBER: E114.2E DATE LAST CHANGED: 05/05/06
SECTION: 2750 TIME LAST CHANGED: 08:58:53

REQUESTER: ER
SUBREQUESTER: I-PH-B JSC/MG
TEST CODE: CKT203 STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. COMREV05 L2953 L3552 L5310 L9501

1. DESCRIPTION: AIR WEATHER NET (126.65 MHZ) (WSSH)

RESPONSIBLE AGENCY: ER

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	27	T	1	EXTEND BLDG 300 TO ANDRE SITE
T2	27	M		EXTEND ANDRE SITE TO WSSH OCC AREA

NOTE: WSSH TO BE ABLE TO ACCEPT MOTOROLA TONE KEYING FROM JSC SO
CAPCOM CAN REMOTELY KEY VHF TRANSCEIVER.

TECH CONTACT: ER/MIKE GAWEL/321 853-8118

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: WSMR
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/02/98
RESPONSE TRACKING: Z29105 Z3555 Z5910 Z9509

[PRD] DATABASE RECORD: 375495 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/21/96
INITIAL DATE: 04/12/91
ITEM NUMBER: K115K DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 08:57:50

REQUESTER: KSC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 375495
ITEM NUMBER: K115K

SUBREQUESTER:	ESA	FR1/2/3	GSFC	GSFC/700
	I-MIL	JSC	KSC/PH-L	KSC/XA-E
	MSFC	NASA HQ	OMR1/3/4	OSR1/3/4
TEST CODE:	CKT141	FULLTIME	STSALL	SUPSIM

ASSOCIATED DOC:	20007S	20026S	20027S	20028S	
TRACKING NO.	COMREV05	DB98	KING2001	L2604	L3916
	L5403	L7507	R109-89	R26131	R2725
	R2809	R3447	R4212		

PRIORITY: REQUIRED
RATIONALE: ALTERNATE COMMUNICATION SOURCES AVAILABLE.

1. DESCRIPTION: MISSION AUDIO/PRESS CONFERENCE/INTERVIEW CIRCUIT

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,26,27,28	M		CDSC FOR KSC DIST
G2	7,26,27,28	M		CDSC EXT. TO MIL
K3	7,26,27,28	M		EXT TO XY FOR EXT TO HGR AF RM SA-226
				FR1/2 MEZZANINE
Y4	7,26,27,28	M		OIS SPEAKER
				FR3/4 MEZZANINE
Y4.1	7,26,27,28	M		OIS SPEAKER
				OSR1/3/4
Y5		M		ALL POS REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 375495
ITEM NUMBER: K115K

		OMR1/3/4
		- - - - - - - - - - - - -
Y6	M	ALL POS REF SEC 3020
		ITEM DHKTY1.1.2K, DBR 024268
		FR2
		- - - - - - - - - - - - -
T7		ALL JSC CONS REF SEC 3020
		ITEM T44.1K, DBR 024313
		LCC ESA RM 3R18
		- - - - - - - - - - - - -
T8		ALL JSC CONS REF SEC 3020
		ITEM T66.1K, DBR 517193

NOTE: THE ASSOCIATED CIRCUIT IS 2PAC041.

PRIME: KSC/XA-E/WILLIAM JOHNSON/321 867-2722
KSC/PH-L/DON HAMMEL/321 861-9315

COMM CONTACT: KSC/IT-D2-A/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/11/96
RESPONSE TRACKING: Z2681 Z2908 Z3432 Z3953 Z4217
Z5404 Z7604

[PRD] DATABASE RECORD: 385380 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/07/95
INITIAL DATE: 05/24/88
ITEM NUMBER: GK115.1K DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 08:58:43

REQUESTER: GSFC KSC
SUBREQUESTER: GSFC/450 GSFC/700
TEST CODE: CKT141 STSALL TVPLAN

CONTINUED

[PRD] DATABASE RECORD: 385380
ITEM NUMBER: GK115.1K

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
TRACKING NO. COMREV05 L6306 L7404 R26131 R2809

1. DESCRIPTION: MISSION AUDIO/PRESS CONFERENCE/INTERVIEW CIRCUIT

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
G2	7,26,27,28	M		CD&SC FOR DISTRIBUTION TO MILA

COMM CONTACT: GSFC/AL DUANY/301 286-2721
KSC/MONIQUE MCLAMB/321 867-8540

TECH CONTACT: MILA/MELISSA BLIZZARD/321 867-1068

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/07/95
RESPONSE TRACKING: Z7407

[PRD] DATABASE RECORD: 19321 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/05/89
INITIAL DATE: 09/05/89
ITEM NUMBER: E115.2E DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 08:58:58

REQUESTER: ER
SUBREQUESTER: KSC/PH-L
TEST CODE: CKT141 FULLTIME STSALL SUPSIM

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
TRACKING NO. COMREV05 MK98 R3447
PRIORITY: REQUIRED
RATIONALE: ALTERNATE COMMUNICATION SOURCE AVAILABLE.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 19321
ITEM NUMBER: E115.2E

1. DESCRIPTION: MISSION AUDIO/PRESS CONFERENCE/INTERVIEW CIRCUIT (L-5 HOURS)

RESPONSIBLE AGENCY: ER

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,26,27,28	M		HANGAR AF RM SA-226

TECH CONTACT: ER/MIKE GAWEL/321 853-8118
KSC/PH-L/DON HAMMEL/321 861-9315
KSC/USK-705/JOE CHAPUT/321 853-4032

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/02/90
RESPONSE TRACKING: Z3162 Z3308 Z3455 Z3564 Z3850

[PRD] DATABASE RECORD: 357865 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/24/88
INITIAL DATE: 05/24/88
ITEM NUMBER: E116E DATE LAST CHANGED: 05/31/07
SECTION: 2750 TIME LAST CHANGED: 08:14:33

REQUESTER: ER
SUBREQUESTER: KSC/TA-E-A
TEST CODE: CKT143 S51E09 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20026S 20027S 20028S 20029S
TRACKING NO. COMREV05 L2607 R2809
PRIORITY: REQUIRED
RATIONALE: ALTERNATE COMMUNICATION SORCE AVAILABLE.

1. DESCRIPTION: HSFS LOCAL (L-5 HOURS)

RESPONSIBLE AGENCY: ER

CONTINUED

[PRD] DATABASE RECORD: 357865
ITEM NUMBER: E116E

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,26,27,28,29	T		CCAFS, LRCC, NASA PROJECT CONS.

TECH CONTACT: ER/MIKE GAWEL/321 853-8118

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/22/88
RESPONSE TRACKING: Z2686

[PRD] DATABASE RECORD: 10705 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/03/90
INITIAL DATE: 07/06/89
ITEM NUMBER: GE117G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:11

REQUESTER: GSFC ER
SUBREQUESTER: GSFC/542
TEST CODE: CKT145 STSALL
TRACKING NO. COMREV05 GSFCREV06 L2805 L3516 R2630
R2640 R2850

1. DESCRIPTION: GSFC COMM COORD

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
G1	FULL-TIME	T		GSFC FOR DIST.
G2	"	T		EXT TO ER, XY
G3	"	T		TERM AT MILA

COMM CONTACT: GSFC/AL DUANY/301 286-2721

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 10705
ITEM NUMBER: GE117G

SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/03/90
RESPONSE TRACKING: Z2843 Z2878 Z3523

[PRD] DATABASE RECORD: 10709 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/03/90
INITIAL DATE: 06/13/89
ITEM NUMBER: EK117.1E DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 09:00:10

REQUESTER: ER KSC
SUBREQUESTER: GSFC/700
TEST CODE: CKT145 FULLTIME STSALL
TRACKING NO. COMREV05 L3516 R2630 R2850

1. DESCRIPTION: GSFC COMM COORD

RESPONSIBLE AGENCY: ER

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
G1	FULL-TIME	T		EXT TO KSC, CDSC
G2	"	T		EXT TO XY
G3	"	T		EXT TO HANGAR AE

POC: ER/MIKE GAWEL/321 853-8118

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/03/90
RESPONSE TRACKING: Z2843 Z3523

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 10703 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/03/90
INITIAL DATE: 07/06/89
ITEM NUMBER: K117.1.1K DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 09:00:26

REQUESTER: KSC
SUBREQUESTER: GSFC GSFC/542 I-MIL
TEST CODE: CKT145 FULLTIME STSALL
TRACKING NO. COMREV05 L2805 L3516 R2630 R2850

1. DESCRIPTION: GSFC COMM COORD (CAPE ORDER WIRE)

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	FULLTIME	T		CDSC FOR DIST.
K2	"	T		CDSC FOR EXTN TO MILA
K3	"	T		CDSC TECH CONT
K4	"	T		CDSC COMM CONT CONS 105A1
K5	"	T		CDSC COMM CONT CONS 105A3
K6	"	T		CDSC COMM CONT CONS 106A2
K7	"	T		CDSC COMM CONT CONS 107A2
K8	"	T	1	TERMINATE AT HANGAR AE
K9	"	T		O&C BLDG, RM 4298, CONS 03 KEY #5

COMM CONTACT: KSC/MONIQUE MCLAMB/321 853-8118

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105 UB

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/03/90
RESPONSE TRACKING: Z2843 Z2878 Z3222 Z3523

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 22421 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/01/01
INITIAL DATE: 06/26/90
ITEM NUMBER: KT118K DATE LAST CHANGED: 05/03/06
SECTION: 2750 TIME LAST CHANGED: 13:30:21

REQUESTER: KSC JSC
SUBREQUESTER: FR1/3/4 JSC/CA4 OMR1/3/4 OSR1/3/4
TEST CODE: CKT148 STSALL

ASSOCIATED DOC: 20007S 20026S 20028S
TRACKING NO. COMREV05 L006-5 L108-7 L4819 L501-1
L6301 L6710 R105-1 R3805

1. DESCRIPTION: FCOD OPS

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,26,28	T		CDSC FOR EXT TO JSC
T2	7	T		LCC ROOF VIEWING AREA
T3	7,26,28	T		ASTRONAUTS QUARTERS O&C BLDG
T4	7	T		OSR1/3/4 POS A6
T5	7,26,28	T		LCC 4P10
T6	7,26,28	T		FR 1/3/4 POS AC4
T7	7,26,28	T		VITT OFFICE O&C RM 3281
T8	7	T		OMR 1/3/4 POS A4

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

NOTE: CIRCUIT TO BE UP FOR LAUNCH FROM L-5HRS THRU CONTINGENCY OPERATIONS AND FOR LANDINGS AT DFRC/KSC FROM L-1HR THRU CREW EGRESS.

REF: LLS2730, ITEM T14G, DBR 022681.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/01/01

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 22421
ITEM NUMBER: KT118K

RESPONSE TRACKING: Z105-1 Z3809 Z4823 Z6707

[PRD] DATABASE RECORD: 22422 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/12/95
INITIAL DATE: 09/06/90
ITEM NUMBER: TX118.1T DATE LAST CHANGED: 05/03/06
SECTION: 2750 TIME LAST CHANGED: 13:31:08

REQUESTER: JSC DFRC
SUBREQUESTER: JSC/CA4
TEST CODE: CKT148 STSALL

ASSOCIATED DOC: 20007S 20026S 20028S
TRACKING NO. COMREV05 L006-5 L009-1 L108-7 L3574
L4819 L501-1 R3805

1. DESCRIPTION: FCOD OPS

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,26,28	T		JSC, MCC, SPAN CONSOLE
T2	7,26,28	T		JSC, BLDG 4, ON SPEAKER PHONE
T3	7,26,28	T		JSC, MCC, FLT SURGEON CONSOLE
T4	26	T		JSC, EXT TO DFRC

COMM CONTACT: JSC/KEN JONES/281 483-7671

NOTE: CIRCUIT TO BE UP FOR LAUNCH FROM L-5HRS THRU CONTINGENCY OPERATIONS AND FOR LANDINGS AT DFRC/KSC FROM L-1HR THRU CREW EGRESS.

REF: LLS2730, ITEM T14G,DBR 022681.

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/2891 483-7671

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 22422
ITEM NUMBER: TX118.1T

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/12/95
RESPONSE TRACKING: Z3596 Z4823 Z6926

[PRD] DATABASE RECORD: 516773 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/12/95
INITIAL DATE: 09/03/91
ITEM NUMBER: X118.1.1X DATE LAST CHANGED: 03/20/07
SECTION: 2750 TIME LAST CHANGED: 13:11:00

REQUESTER: DFRC
SUBREQUESTER: JSC
TEST CODE: CKT148 STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. COMREV05 L108-7 L4819 L501-1 L6301

1. DESCRIPTION: FCOD OPS

RESPONSIBLE AGENCY: DFRC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	26	T		TERM IN VITT TRAILER

TECH CONTACT: DFRC/GEORGE GRIMSHAW/661 276-3425

NOTE: CIRCUIT TO BE UP FOR LANDINGS AT DFRC FROM L-1HR THRU CREW EGRESS.

REF: LLS2750, ITEM T148.2T, DBR 022422

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/24/95
RESPONSE TRACKING: Z4823 Z6926

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 24264 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/18/05
INITIAL DATE: 12/17/90
ITEM NUMBER: HT119T DATE LAST CHANGED: 05/03/06
SECTION: 2750 TIME LAST CHANGED: 13:33:40

REQUESTER: MSFC JSC
SUBREQUESTER: I-PH-B MS026
TEST CODE: CKT149 STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 KING2001 L04-11-1 L04-4-2 L04-6-2
L3857 L5020 R0404-2 R0406-4 R0501-6
R109-89 R3907 R9403 RSRR121 RSRR123
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: WEATHER NET (JSC)

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
H1	7	M	1	EXT TO MSFC FOR DIST

COMM CONTACT: JSC/KEN JONES/281 483-7671

NOTE 1: THE JSC MCC WILL EXTEND THE WEATHER NET TO MSFC AS A FULL-PERIOD SERVICE.

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/18/05
RESPONSE TRACKING: Z0404-2 Z0406-4 Z3883 Z3909 Z5037
Z9404

[PRD] DATABASE RECORD: 586777 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/05/06
INITIAL DATE: 05/05/06
ITEM NUMBER: H119.1H DATE LAST CHANGED: 05/11/06
SECTION: 2750 TIME LAST CHANGED: 09:27:30

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 586777
ITEM NUMBER: H119.1H

REQUESTER: MSFC
SUBREQUESTER: JSC
TEST CODE: STSALL
TRACKING NO. COMREV05

1. DESCRIPTION: WEATHER NET (JSC)

RESPONSIBLE AGENCY: MSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
H1	7	M	1	EXT TO MSFC FOR DIST

POC: MSFC/PHILIP CAUTHEN/256 544-4204
COMM CONTACT: MSFC/SCOTT SCHUTZENHOFER/256 544-8496

NOTE 1: THE JSC MCC WILL EXTEND THE WEATHER NET TO MSFC AS A FULL-PERIOD SERVICE.

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/05/06

[PRD] DATABASE RECORD: 24265 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/18/05
INITIAL DATE: 12/17/90
ITEM NUMBER: THK120T DATE LAST CHANGED: 05/03/06
SECTION: 2750 TIME LAST CHANGED: 13:35:46

REQUESTER: JSC MSFC KSC
SUBREQUESTER: MS026
TEST CODE: CKT150 FULLTIME STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 KING2001 L04-4-2 L04-6-2 L04-8-2
L3857 L5020 R0404-2 R0406-4 R0408-1
R0501-6 R109-89 R3907 R9403 RSRR121
RSRR123

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 24265
ITEM NUMBER: THK120T

PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: SHUTTLE WEATHER COORD (JSC)

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7	T		JSC FOR DIST.
K2	7	T	1	EXT TO KSC FOR DIST
H3	7	T		EXT TO MSFC FOR DIST

COMM CONTACT: JSC/KEN JONES/281 483-7671

NOTE 1: THE JSC MCC WILL EXTEND SHUTTLE WX COORD TO MSFC AS A FULL-PERIOD SERVICE.

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/18/05
RESPONSE TRACKING: Z0404-2 Z0406-4 Z0408-2 Z3883 Z3909
Z5037 Z9404

[PRD] DATABASE RECORD: 586797 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/09/06
INITIAL DATE: 04/12/06
ITEM NUMBER: KE120.1K DATE LAST CHANGED: 11/09/06
SECTION: 2750 TIME LAST CHANGED: 10:45:37

REQUESTER: KSC ER
TEST CODE: FULLTIME STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 R0611-2

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 586797
ITEM NUMBER: KE120.1K

1. DESCRIPTION: SHUTTLE WEATHER COORD (JSC)

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
1	7	T		CDSC FOR DIST.
2	7	T		EXT TO ER
3	7	T		EXT TO NDR SITE

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/09/06

[PRD] DATABASE RECORD: 520245 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/17/92
INITIAL DATE: 06/17/92
ITEM NUMBER: T120.1.1E DATE LAST CHANGED: 05/03/06
SECTION: 2750 TIME LAST CHANGED: 13:38:27

REQUESTER: JSC
TEST CODE: CKT150 STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. L5020

1. DESCRIPTION: SHUTTLE WEATHER COORD (JSC)

RESPONSIBLE AGENCY: ER

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
E1	7	T		TERMINATE AT RWO CONSOLE(S)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 520245
ITEM NUMBER: T120.1.1E

TECH CONTACT: ER/MIKE GAWEL/321 853-8118

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/17/92
RESPONSE TRACKING: Z5037

[PRD] DATABASE RECORD: 586957 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/05/06
INITIAL DATE: 05/05/06
ITEM NUMBER: H120.2H DATE LAST CHANGED: 05/11/06
SECTION: 2750 TIME LAST CHANGED: 09:28:40

REQUESTER: MSFC
TEST CODE: FULLTIME STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05

1. DESCRIPTION: SHUTTLE WX COORD (JSC)

RESPONSIBLE AGENCY: MFSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
H1	7	T		MSFC FOR DIST

NOTE 1: THE JSC MCC WILL EXTEND SHUTTLE WX COORD TO MSFC AS A FULL-PERIOD SERVICE.

POC: MSFC/PHILIP CAUTHEN/256 544-4204
COMM CONTACT: MSFC/SCOTT SCHUTZENHOFER/256 544-8496

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 586957
ITEM NUMBER: H120.2H

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/05/06

[PRD] DATABASE RECORD: 13759 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/07/05
INITIAL DATE: 07/03/90
ITEM NUMBER: GK121G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:12

REQUESTER: GSFC KSC
SUBREQUESTER: KSC/IT-D2-A
TEST CODE: CKT177 ISTRES KSC MORON
STSALL SUPSIM TAL ZARAGOZA

ASSOCIATED DOC: 20007S 20029S 20057S 20070S
TRACKING NO. COMREV05 DB98 GSFCREV06 L114-3 L2604
L3806 L3847 R2656 R4407
PRIORITY: REQUIRED
RATIONALE: BACKUP CIRCUITS AVAILABLE.

1. DESCRIPTION: VOICE CIRCUITS (9907)

CIRCUIT TITLE: TAL LANDING FIELD (9907)

RESPONSIBLE AGENCY: GSFC

CAP
EXTEND THE LANDING FIELD CIRCUIT TO KSC. T

COMM CONTACT: GSFC/AL DUANY/301 286-2721

REF: FLS2750, ITEM KT138.1G, DBR 516760
LLS2700, ITEM DKT82DEK, DBR 013802

NOTE: EXTEND TO INMARSAT CIRCUITS TAL LANDING FIELD, TAL AIRCRAFT ORBITER OR TAL WEATHER OBSERVER POST-ELS/CLS/TAL LANDING FOR RECOVERY OPERATIONS AT THE REQUEST OF THE GOM.

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 13759
ITEM NUMBER: GK121G

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/03/05
RESPONSE TRACKING: Z2647 Z3819 Z4413

[PRD] DATABASE RECORD: 13764 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/07/05
INITIAL DATE: 07/03/90
ITEM NUMBER: KT121.1K DATE LAST CHANGED: 10/27/06
SECTION: 2750 TIME LAST CHANGED: 11:10:47

REQUESTER: KSC JSC
SUBREQUESTER: KSC/IT-D2-A
TEST CODE: CKT177 ISTRES KSC MORON
STSALL SUPSIM TAL ZARAGOZA

ASSOCIATED DOC: 20007S 20029S 20057S 20070S
TRACKING NO. COMREV05 DB98 L113-2 L114-3 L2604
L3806 L3847 R2656
PRIORITY: REQUIRED
RATIONALE: BACKUP CIRCUITS AVAILABLE.

1. DESCRIPTION: VOICE/DATA CIRCUITS (9907)

CIRCUIT TITLE: TAL LANDING FIELD (9907)

RESPONSIBLE AGENCY: KSC

	CAP
1. EXTEND TO JSC.	T
2. PROVIDE BRIDGE ACCESS FOR TROUBLE SHOOTING/MONITOR PURPOSES.	T
3. TERMINATE IN CDSC TECH CONTROL.	T
4. TERMINATE IN CDSC CONSOLE 1705	M

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

REF: FLS2750, ITEM T138.3T, DBR 516762
LLS2700, ITEM DKT82DEK, DBR 013802

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 13764
ITEM NUMBER: KT121.1K

NOTE: EXTEND TO INMARSAT CIRCUITS TAL LANDING FIELD, TAL AIRCRAFT ORBITER OR TAL WEATHER OBSERVER POST-ELS/CLS/TAL LANDING FOR RECOVERY OPERATIONS AT THE REQUEST OF THE GOM.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/07/05
RESPONSE TRACKING: Z113-5 Z3819

[PRD] DATABASE RECORD: 13799 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/07/05
INITIAL DATE: 07/03/90
ITEM NUMBER: T121.1.1T DATE LAST CHANGED: 10/27/06
SECTION: 2750 TIME LAST CHANGED: 11:14:34

REQUESTER: JSC
TEST CODE: CKT177 ISTRES KSC MORON
STSALL SUPSIM TAL ZARAGOZA

ASSOCIATED DOC: 20007S 20029S 20057S 20070S
TRACKING NO. COMREV05 L04-4-2 L05-2-3 L114-3 L2604
L3806 L3847 R0404-2 R0502-4 R2656

1. DESCRIPTION: VOICE/DATA CIRCUITS

CIRCUIT TITLE: TAL LANDING FIELD

RESPONSIBLE AGENCY: JSC

1. TERMINATE AT MCC LOCATIONS (LSO CONSOLE)
2. PROVIDE INTERFACE TO EXISTING CIRCUITS (I.E., LANDING FIELD PRIME 1 or 2) AS REQUIRED.

COMM CONTACT: JSC/KEN JONES/281 483-7671

REF: FLS2750, ITEM T138.3T, DBR 516762
LLS2700, ITEM DKT82DEK, DBR 013802

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 13799
ITEM NUMBER: T121.1.1T

NOTE: THIS CIRCUIT WILL BE ACTIVATED AS NEEDED FOR CHECKOUT AND ALS/ELS LANDINGS.

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/27/05
RESPONSE TRACKING: Z0404-2 Z114-2 Z3819

[PRD] DATABASE RECORD: 13800 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/07/05
INITIAL DATE: 09/20/91
ITEM NUMBER: GK122G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:12

REQUESTER:	GSFC	KSC		
SUBREQUESTER:	I-PH-B	KSC/IT-D2-A	KSC/PH-L	SOC
TEST CODE:	CKT178	ISTRES	KSC	MORON
	STSALL	SUPSIM	TAL	ZARAGOZA

ASSOCIATED DOC:	20007S	20029S	20057S		20070S
TRACKING NO.	COMREV05	DB98	GSFCREV06	L114-3	L2604
	L3806	L3847	R2656	R4407	

PRIORITY: REQUIRED
RATIONALE: ALTERNATE COMMUNICATION SOURCES AVAILABLE.

1. DESCRIPTION: VOICE CIRCUITS (9906)

CIRCUIT TITLE: TAL WEATHER OBSERVER (9906)

RESPONSIBLE AGENCY: GSFC

	CAP
EXTEND THE WEATHER OBSERVER CIRCUIT TO KSC.	T

PRIME: KSC/PH-L/GLEN LOCKWOOD/321 861-9310

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 13800
ITEM NUMBER: GK122G

COMM CONTACT: GSFC/AL DUANY/301 286-2721
KSC/MONIQUE MCLAMB/321 867-8540

NOTE 1: POST LANDING, THIS CIRCUIT WILL BE USED TO EXTEND THE LOCAL TAL SITE "GROUND OPS" CIRCUIT TO KSC.

NOTE 2: EXTEND TO INMARSAT CIRCUITS TAL LANDING FIELD, TAL AIRCRAFT ORBITER OR TAL WEATHER OBSERVER POST-ELS/CLS/TAL LANDING FOR RECOVERY OPERATIONS AT THE REQUEST OF THE GOM.

REF: FLS2750, ITEM KT137.1G, DBR 516772
LLS2700, ITEM DKT82DEK, DBR 013802

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/03/05
RESPONSE TRACKING: Z2647 Z3819 Z4413

[PRD] DATABASE RECORD: 13798 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/07/05
INITIAL DATE: 07/03/90
ITEM NUMBER: KET122.1K DATE LAST CHANGED: 10/27/06
SECTION: 2750 TIME LAST CHANGED: 11:15:42

REQUESTER:	KSC	ER	JSC	
SUBREQUESTER:	I-PH-B	KSC/IT-D2-A	SOC	
TEST CODE:	BENGUE	CKT178	ISTRES	KSC
	MORON	STSALL	SUPSIM	TAL
	ZARAGOZA			

ASSOCIATED DOC:	20007S	20029S	20057S	20070S	
TRACKING NO.	COMREV05	DB98	L113-2	L114-3	L2604
	L3806	L3847	R2656		

PRIORITY: REQUIRED
RATIONALE: ALTERNATE COMMUNICATION SOURCES AVAILABLE.

1. DESCRIPTION: VOICE/DATA CIRCUITS (9906)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 13798
ITEM NUMBER: KET122.1K

CIRCUIT TITLE: TAL WEATHER OBSERVER (9906)

RESPONSIBLE AGENCY: KSC

		CAP
1.	EXTEND TO JSC	T
2.	PROVIDE BRIDGE ACCESS FOR TROUBLE SHOOTING/MONITOR PURPOSES	T
3.	TERMINATE IN CDSC TECH CONTROL	T
4.	TERMINATE IN CDSC CONSOLE 1705	M
5.	EXTEND TO ER.	T

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

REF: FLS2750, ITEM KT137K, DBR 516769
LLS2700, ITEM DKT82DEK, DBR 013802

NOTE: EXTEND TO INMARSAT CIRCUITS TAL LANDING FIELD, TAL AIRCRAFT ORBITER OR TAL WEATHER OBSERVER POST-ELS/CLS/TAL LANDING FOR RECOVERY OPERATIONS AT THE REQUEST OF THE GOM.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/07/05
RESPONSE TRACKING: Z113-5 Z3819

[PRD] DATABASE RECORD: 13797 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/07/05
INITIAL DATE: 07/03/90
ITEM NUMBER: T122.1.1T DATE LAST CHANGED: 10/27/06
SECTION: 2750 TIME LAST CHANGED: 11:16:00

REQUESTER: JSC
SUBREQUESTER: I-PH-B KSC/PH-L
TEST CODE: CKT178 ISTRES KSC MORON
STSALL SUPSIM TAL ZARAGOZA

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 13797
ITEM NUMBER: T122.1.1T

ASSOCIATED DOC:	20007S	20029S	20057S		20070S
TRACKING NO.	COMREV05	DB98	L04-4-2	L04-6-2	L114-3
	L205-6	L2604	L3806	L3847	L5006
	L908-7	R0404-2	R0406-4	R2656	R3433

PRIORITY: REQUIRED
RATIONALE: ALTERNATE COMMUNICATION SOURCES AVAILABLE.

1. DESCRIPTION: MCC DIST (WX ROOM & LSO)

CIRCUIT TITLE: TAL WEATHER OBSERVER

RESPONSIBLE AGENCY: JSC

1. TERMINATE AT MCC LOCATIONS (WX ROOM & LSO)
2. PATCH TO KSC "CONVOY CDR" POST LANDING AS DIRECTED BY THE KSC LRD. (THIS I/F IS TO BE ACCOMPLISHED ONLY WHEN THE CIRCUIT IS BEING USED AS "GROUND OPS" FROM THE TAL SITE.) AT THE DIRECTION OF LSO.

REF: FLS2750, ITEM KT137.2T, DBR 516770
LLS2700, ITEM DKT82DEK, DBR 013802

POC: KSC/PH-L/GLEN LOCKWOOD/321 861-9310

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/27/05

RESPONSE TRACKING:	Z0404-2	Z0406-4	Z114-2	Z3422	Z3819
	Z5021				

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 13954 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/07/05
INITIAL DATE: 07/03/90
ITEM NUMBER: E122.1.1.1E DATE LAST CHANGED: 10/27/06
SECTION: 2750 TIME LAST CHANGED: 11:16:22

REQUESTER: ER
SUBREQUESTER: DDMS I-PH-B SOC
TEST CODE: CKT178 ISTRES KSC MORON
STSALL TAL ZARAGOZA

ASSOCIATED DOC: 20007S 20029S 20057S 20070S
TRACKING NO. COMREV05 L114-3 L3806 L3838 L3847
R2656

1. DESCRIPTION: VOICE/DATA CIRCUITS

CIRCUIT TITLE: TAL WEATHER OBSERVER

RESPONSIBLE AGENCY: ER

	CAP
1. TERMINATE AT DOD SOC CONSOLE	T
2. TERMINATE AT RWO	T

REF: LLS2700, ITEM DKT82DEK, DBR 013802

TECH CONTACT: ER/MIKE GAWEL/321 853-8118

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/07/05
RESPONSE TRACKING: Z26184 Z2689 Z28112 Z3819

[PRD] DATABASE RECORD: 13793 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/07/05
INITIAL DATE: 09/20/91
ITEM NUMBER: GK123G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:12

REQUESTER: GSFC KSC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 13793
ITEM NUMBER: GK123G

SUBREQUESTER: KSC/IT-D2-A SOC
TEST CODE: CKT179 ISTRES KSC MORON
STSALL SUPSIM TAL ZARAGOZA

ASSOCIATED DOC: 20007S 20029S 20057S 20070S
TRACKING NO. COMREV05 DB98 GSFCREV06 L114-3 L2604
L3806 L3847 R2656 R4407
PRIORITY: REQUIRED
RATIONALE: ALTERNATE COMMUNICATION SOURCES AVAILABLE.

1. DESCRIPTION: VOICE CIRCUITS (9908)

CIRCUIT TITLE: TAL AIRCRAFT/ORBITER (9908)

RESPONSIBLE AGENCY: GSFC

	CAP
EXTEND THE AIRCRAFT/ORBITER CIRCUIT TO KSC.	T

COMM CONTACT: GSFC/AL DUANY/301 286-2721

REF: FLS2750, ITEM KT136G, DBR 516765
LLS2700, ITEM DKT82DEK, DBR 013802

NOTE: EXTEND TO INMARSAT CIRCUITS TAL LANDING FIELD, TAL AIRCRAFT ORBITER OR TAL WEATHER OBSERVER POST-ELS/CLS/TAL LANDING FOR RECOVERY OPERATIONS AT THE REQUEST OF THE GOM.

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/03/05
RESPONSE TRACKING: Z2647 Z3819 Z4413

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 13791 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/07/05
INITIAL DATE: 04/12/91
ITEM NUMBER: KT123.1K DATE LAST CHANGED: 10/27/06
SECTION: 2750 TIME LAST CHANGED: 11:17:19

REQUESTER:	KSC	JSC		
SUBREQUESTER:	KSC/IT-D2-A	KSC/MK-SIO	OMR1/3	OMR1/3/4
TEST CODE:	CKT179	ISTRES	KSC	MORON
	STSALL	SUPSIM	TAL	ZARAGOZA

ASSOCIATED DOC:	20007S	20029S	20057S		20070S
TRACKING NO.	COMREV05	DB98	L113-2	L114-3	L2604
	L3624	L3806	L3847	L3916	R2656

PRIORITY: REQUIRED
RATIONALE: ALTERNATE COMMUNICATION SOURCES AVAILABLE.

1. DESCRIPTION: VOICE/DATA CIRCUITS

CIRCUIT TITLE: TAL AIRCRAFT/ORBITER (9908)

RESPONSIBLE AGENCY: KSC

		CAP
1.	EXTEND TO JSC	T
2.	PROVIDE BRIDGE ACCESS FOR TROUBLE SHOOTING/MONITOR PURPOSES	T
3.	TERMINATE IN CDSC TECH CONTROL	T
4.	TERMINATE IN CDSC CONSOLE 1705	M
5.	LCC OMR1/3/4 ALL POSITIONS - REF SEC 3020, ITEM HKTY1.1.1K & DHKTY1.1.2K, DBR 024257 & 024268	M

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

REF: FLS2750, ITEM KTY136.1K, DBR 516766
LLS2700, ITEM DKT82DEK, DBR 013802

NOTE: EXTEND TO INMARSAT CIRCUITS TAL LANDING FIELD, TAL AIRCRAFT ORBITER OR TAL WEATHER OBSERVER POST-ELS/CLS/TAL LANDING FOR RECOVERY OPERATIONS AT THE REQUEST OF THE GOM.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 13791
ITEM NUMBER: KT123.1K

SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/07/05
RESPONSE TRACKING: Z113-5 Z3621 Z3819 Z3953

[PRD] DATABASE RECORD: 13789 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/08/05
INITIAL DATE: 07/03/90
ITEM NUMBER: TE123.1.1T DATE LAST CHANGED: 10/27/06
SECTION: 2750 TIME LAST CHANGED: 11:17:38

REQUESTER: JSC ER
SUBREQUESTER: DDMS SOC
TEST CODE: CKT179 ISTRES KSC MORON
STSALL TAL ZARAGOZA

ASSOCIATED DOC: 20007S 20029S 20057S 20070S
TRACKING NO. COMREV05 L04-4-2 L05-2-3 L114-3 L3624
L3806 L3847 R0404-2 R0502-4 R2656
R6101

1. DESCRIPTION: VOICE/DATA CIRCUITS

CIRCUIT TITLE: TAL AIRCRAFT/ORBITER

RESPONSIBLE AGENCY: JSC CAP

NOTE: 1. TERMINATE AT MCC LOCATIONS (COMM. TECH & CAPCOM) T
2. PROVIDE MOTOROLA TONE KEYING ON TRANSMIT LEG OF CIRCUIT. T
3. EXTEND TO ER (DDMS AIRCRAFT/ORBITER) T
4. REF SECT 2730 ITEM DK5G DBR 013803

COMM CONTACT: JSC/KEN JONES/281 483-7671

REF: FLS2750 ITEM DT136.2T DBR 516767
LLS2700 ITEM DKT82DEK DBR 013802

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 13789
ITEM NUMBER: TE123.1.1T

RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/27/05
RESPONSE TRACKING: Z0404-2 Z114-2 Z3819 Z6101

[PRD] DATABASE RECORD: 13955 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/08/05
INITIAL DATE: 07/03/90
ITEM NUMBER: E123.1.1.1E DATE LAST CHANGED: 10/27/06
SECTION: 2750 TIME LAST CHANGED: 11:17:58

REQUESTER: ER
SUBREQUESTER: DDMS SOC
TEST CODE: CKT179 ISTRES MORON TAL
ZARAGOZA

ASSOCIATED DOC: 20007S 20029S 20057S 20070S
TRACKING NO. COMREV05 L04-6-2 L114-3 L3806 L3847
L5002 R0406-4 R2656 R2816

1. DESCRIPTION: VOICE/DATA CIRCUITS

CIRCUIT TITLE: TAL AIRCRAFT/ORBITER

RESPONSIBLE AGENCY: ER CAP
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1. TERMINATE AT DOD SOC CONSOLES T
2. TERMINATE AT ROCC RWO CONSOLE T

REF: LLS2720, ITEM DK5G, DBR 013803
FLS2750, ITEM D136.3E, DBR 516768
LLS2700, ITEM DKT82DEK, DBR 013802

TECH CONTACT: ER/MIKE GAWEL/321 853-8118

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/08/05

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 13955
ITEM NUMBER: E123.1.1.1E

RESPONSE TRACKING: Z2807 Z3819 Z5018

[PRD] DATABASE RECORD: 13787 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/07/05
INITIAL DATE: 07/03/90
ITEM NUMBER: GK124G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:12

REQUESTER: GSFC KSC
SUBREQUESTER: KSC/IT-D2-A KSC/KICS-105
TEST CODE: ISTRES KSC MORON STSALL
TAL ZARAGOZA

ASSOCIATED DOC: 20007S 20029S 20057S 20070S
TRACKING NO. COMREV05 DB98 GSFCREV06 L114-3 L3806
L3847 R2656 R3433
PRIORITY: MANDATORY
RATIONALE: REQUIRED TO SET UP TAL SITES.

1. DESCRIPTION: VOICE CIRCUITS

CIRCUIT TITLE: INMARSAT COORD (SIGNALING REQUIRED) (6737)

RESPONSIBLE AGENCY: GSFC CAP
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1. EXTEND TO INMARSAT ES, SOUTHBURY, CT. T
2. EXTEND TO KSC CDSC T

REF: FLS2750, ITEM K135G, DBR 516763

COMM CONTACT: GSFC/AL DUANY/301 286-2721

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/03/05
RESPONSE TRACKING: Z2647 Z3422 Z3819

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 13785 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/07/05
INITIAL DATE: 07/03/90
ITEM NUMBER: K124.1K DATE LAST CHANGED: 10/27/06
SECTION: 2750 TIME LAST CHANGED: 11:18:39

REQUESTER: KSC
SUBREQUESTER: KSC/IT-D2-A KSC/KICS-105
TEST CODE: CKT180 ISTRES KSC MORON
STSALL TAL ZARAGOZA

ASSOCIATED DOC: 20007S 20029S 20057S 20070S
TRACKING NO. COMREV05 DB98 L113-2 L114-3 L3806
L3847 R2656 R3433
PRIORITY: MANDATORY
RATIONALE: REQUIRED TO SET UP TAL SITES.

1. DESCRIPTION: VOICE/DATA CIRCUITS

CIRCUIT TITLE: INMARSAT COORD (SIGNALING REQUIRED) (6737)

RESPONSIBLE AGENCY: KSC

	CAP
TERMINATE AT CDSC TECH CONTROL	T
TERMINATE AT CDSC COMM CONTROL	T
TERMINATE AT CDSC CONSOLE 1705	T
TERMINATE AT CDSC OPS MGMT CONSOLE	T

REFERENCE: FLS2750 ITEM K135.1K DBR 516764

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/07/05
RESPONSE TRACKING: Z113-5 Z3422 Z3819

[PRD] DATABASE RECORD: 517449 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/07/05
INITIAL DATE: 11/05/91
ITEM NUMBER: GK125G DATE LAST CHANGED: 11/16/06

CONTINUED

[PRD] DATABASE RECORD: 517449
ITEM NUMBER: GK125G

SECTION: 2750 TIME LAST CHANGED: 07:13:26

REQUESTER: GSFC KSC
SUBREQUESTER: KSC/IT-D2 KSC/KICS-105
TEST CODE: ISTRES KSC MORON STSALL
TAL ZARAGOZA

ASSOCIATED DOC: 20007S 20029S 20057S 20070S
TRACKING NO. COMREV05 DB98 L05-2-3 L114-3 L4409
R0502-4 R8704
PRIORITY: REQUIRED
RATIONALE: BACKUP CIRCUITS AVAILABLE.

1. DESCRIPTION: DATA CIRCUITS

CIRCUIT TITLE: STATUS LINK (TAL) (CDSC TERMINAL)

RESPONSIBLE AGENCY: GSFC

EXTEND THE STATUS LINK CIRCUIT TO KSC

NOTE: THIS CIRCUIT CAN BE USED AS A BACKUP VOICE CIRCUIT IF NEEDED.

REF: LLS2720, ITEM DK5G, DBR 013803

COMM CONTACT: GSFC/AL DUANY/301 286-2721

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/03/05
RESPONSE TRACKING: Z0502-5 Z0505-3 Z4440 Z8705

[PRD] DATABASE RECORD: 517450 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/07/05
INITIAL DATE: 11/05/91
ITEM NUMBER: K125.1K DATE LAST CHANGED: 10/27/06
SECTION: 2750 TIME LAST CHANGED: 11:19:09

REQUESTER: KSC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 517450
ITEM NUMBER: K125.1K

SUBREQUESTER: KSC/IT-D2-A KSC/KICS-105
TEST CODE: ISTRES KSC MORON STSALL
TAL ZARAGOZA

ASSOCIATED DOC: 20007S 20029S 20057S 20070S
TRACKING NO. COMREV05 DB98 L113-2 L114-3 L4409
PRIORITY: REQUIRED
RATIONALE: BACKUP CIRCUITS AVAILABLE.

1. DESCRIPTION: VOICE/DATA CIRCUITS

CIRCUIT TITLE: STATUS LINK

RESPONSIBLE AGENCY: KSC

1. CDSC RM 133, GYCC CONSOLE & GYSS/GYCN CONSOLE
2. PROVIDE BRIDGE ACCESS FOR TROUBLE SHOOTING/MONITOR PURPOSES
3. TERMINATE IN CDSC TECH CONTROL
4. TERMINATE IN CDSC CONSOLE 1705

NOTE: THIS CIRCUIT CAN BE USED AS A BACKUP CIRCUIT IF NEEDED.

REF: LLS2720, ITEM DK5G, DBR 013803

POC: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/07/05
RESPONSE TRACKING: Z113-5 Z4440

[PRD] DATABASE RECORD: 13545 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/14/90
INITIAL DATE: 02/10/88
ITEM NUMBER: HK126K DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 09:39:45

REQUESTER: MSFC KSC
SUBREQUESTER: I-MIL STSR28

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 13545
ITEM NUMBER: HK126K

TEST CODE: CKT182 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20008S 20009S 20014S
20017S 20037S 20044S 20056S
25009S
TRACKING NO. COMREV05 KING2001 L3534 ML012-90 R109-89
R26157 R2653
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: KMCC COORD

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,8,9,14, 17,37,25009, 44,56	T		CDSC FOR DISTRIBUTION
K2	" "	T		EXT TO MSFC

REF: LLS2700, ITEM H17GK, DBR 227709

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/14/90
RESPONSE TRACKING: Z3536

[PRD] DATABASE RECORD: 13601 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/05/06
INITIAL DATE: 04/13/06
ITEM NUMBER: H126.1H DATE LAST CHANGED: 05/16/06
SECTION: 2750 TIME LAST CHANGED: 08:30:22

REQUESTER: MSFC
SUBREQUESTER: MS205 STSR28
TEST CODE: CKT182 STSALL SUPSIM

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 13601
ITEM NUMBER: H126.1H

ASSOCIATED DOC: 20007S 20008S 20009S 20014S
20017S 20026S 20037S 20044S
20056S 25009S
TRACKING NO. COMREV05

1. DESCRIPTION: KSC-MSFC COMM COORD (KMCC)

RESPONSIBLE AGENCY: MSFC

REF	TEST CODE	CAP	NOTE	TERMINATION LOCATION
H1	7,8,9,14, 17,25009,44, 56,37	T		4207 FOR DISTRIBUTION TO THE HOSC

REF: LLS2700, ITEM H17GK, DBR 227709.

POC: MSFC/PHILIP CAUTHEN/256 544-4204
COMM CONTACT: MSFC/SCOTT SCHUTZENHOFER/256 544-8496

SUPPLIER: MSFC AGENCY: MSFC/FD43 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/2546 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/05/06

[PRD] DATABASE RECORD: 15170 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/14/05
INITIAL DATE: 02/05/91
ITEM NUMBER: GHTXY127G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:12

REQUESTER: GSFC MSFC JSC
DFRC NASA HQ
SUBREQUESTER: JSC/MG VAFB WLSP
TEST CODE: CKT184 FULLTIME RTLS STSALL
TVPLAN

ASSOCIATED DOC: 20007S 20026S 20028S

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 15170
ITEM NUMBER: GHTXY127G

TRACKING NO.	COMREV05	GSFCREV06	L04-4-2	L05-2-3	L102-2
	L210-1	L2678	L301-3	L3902	L408-4
	L409-6A	L5309	L5503	L6404	L6829
	L710-2	L801-1	L801-1A	R0404-2	R0502-4
	R0504-7	R26131	R3433	R8704	R8903
	R9001	R9003			

1. DESCRIPTION: TELEVISION CONFERENCE (TV CONF)

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,26,28	T		GSFC FOR DIST
T2	7,26,28	T	1,2	EXT TO GSFC AMC EARTH STATION
T3	7,26,28	T		EXT TO MILA VIA KSC CD&SC
T4	7,26,28	T		EXT TO MSFC
T5	7,26,28	T		EXT TO DFRC
T6	7,26,28	T		EXT TO NASA HQ, 300 E ST SW WASHINGTON DC
T7	7,26,28	T		EXT TO WLPS/PORTABLE ESTA

NOTE 1: EXTEND TO TV SUPPORT SITES AS REQUIRED IN REALTIME BY MCC HOUSTON VOICE USING EXISTING CIRCUITS.

NOTE 2: EXTEND CIRCUITS TO EARTH STATION PROVIDING SHUTTLE TV VIA FOUR WIRE VOICE CIRCUITS TERMINATING AT THE EARTH STATION ON A DESK OR WALL INSTRUMENT (WHICHEVER STATION MANAGER DESIRES) WITH A PUSH-TO-TALK SWITCH, AND MONITOR SPEAKER MUTING WHEN PTT SWITCH IS ACTIVATED.

COMM CONTACT: GSFC/AL DUANY/301 286-2721

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 15170
ITEM NUMBER: GHTXY127G

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/14/05
RESPONSE TRACKING: Z0404-8 Z0502-5 Z0505-3 Z26110 Z2750
Z3422 Z3941 Z5310 Z5502 Z6412
Z6829 Z8705 Z9003 Z9006

[PRD] DATABASE RECORD: 15169 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/02/92
INITIAL DATE: 11/12/91
ITEM NUMBER: KE127.1K DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 09:42:20

REQUESTER: KSC ER
SUBREQUESTER: I-MIL JSC/MG
TEST CODE: CKT184 FULLTIME RTLS STSALL
TVPLAN

ASSOCIATED DOC: 20007S 20026S 20028S
TRACKING NO. COMREV05 L111-10 L210-1 L2678 L4419
L5309 R26131

1. DESCRIPTION: TELEVISON CONFERENCE (TV CONF)

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,26,28	T		CDSC FOR MIL EXTENSION
T2	7,26,28	T	1	CDSC FOR EXT. TO KSC EARTH STA.
T3	7,26,28	T		CDSC ROOM 103 (WBD ROOM)
T4	7,26,28	T		CDSC ROOM 133 (COMM CONT)
T5	7,26,28	T		LCC ROOM 1P2
T6	7,26,28	T		KSC NEWS FACILITY, ROOM 109A
T7	7,26,28	T		EXTEND TO ER
T8	28	T		KSC NF MER CONSOLE

NOTE: 1. EXTEND CIRCUITS TO EARTH STATION PROVIDING
SHUTTLE TV VIA FOUR WIRE VOICE CIRCUITS
TERMINATING AT THE EARTH STATION ON A DESK
OR A WALL INSTRUMENT (WHICHEVER STATION MANAGER

CONTINUED

[PRD] DATABASE RECORD: 15169
ITEM NUMBER: KE127.1K

DESIRES) WITH A PUSH-TO-TALK SWITCH AND MONITOR
SPEAKER MUTING WHEN PTT SWITCH IS ACTIVATED.

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/02/92
RESPONSE TRACKING: Z2681 Z2730 Z4210 Z5310

[PRD] DATABASE RECORD: 15662 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/14/05
INITIAL DATE: 04/14/05
ITEM NUMBER: E127.1.1E DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 09:42:35

REQUESTER: ER
SUBREQUESTER: I-MIL JSC/MG
TEST CODE: CKT184 RTLS STSALL

ASSOCIATED DOC: 20007S 20017S 20026S 20027S 20028S
TRACKING NO. COMREV05 L210-1 L2715 L4510 L5309 R0504-7 R26183 R26206 R26219 R26242 R2809

1. DESCRIPTION: TELEVISION CONFERENCE (TV CONF)

RESPONSIBLE AGENCY: ER

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,26,27,28	T		EXT TO JDMTA/PORTABLE EARTH STATION

TECHNICAL CONTACT: MIKE GAWEL/321 853-8118

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 15662
ITEM NUMBER: E127.1.1E

RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/14/05
RESPONSE TRACKING: Z26113 Z26152 Z26173 Z2950 Z4526

[PRD] DATABASE RECORD: 15172 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/05/93
INITIAL DATE: 04/23/91
ITEM NUMBER: H127.2H DATE LAST CHANGED: 11/20/06
SECTION: 2750 TIME LAST CHANGED: 09:58:13

REQUESTER: MSFC
SUBREQUESTER: JSC MS144
TEST CODE: FULLTIME RTLS STSALL TVPLAN

ASSOCIATED DOC: 20007S 20026S 20028S
TRACKING NO. COMREV05 KING2001 L05-2-3 L210-1 L3960
L5309 L5547 R0502-4 R109-89 R26131
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: TELEVISION CONFERENCE (TV CONF)

RESPONSIBLE AGENCY: MSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
HT1	7,26,28	T		TERM. IN CDC OF MSFC
HT2	7,26,28	T		EXT TO AMC EARTH STATION

POC: MSFC/PHILIP CAUTHEN/EO60/256 544-4204
COMM CONTACT: SCOTT SCHUTZENHOFER/MP71/256 544-8496

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/05/93
RESPONSE TRACKING: Z26189 Z39104 Z5310 Z5557

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 15172
ITEM NUMBER: H127.2H

[PRD] DATABASE RECORD: 15171 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/02/92
INITIAL DATE: 11/12/91
ITEM NUMBER: X127.3X DATE LAST CHANGED: 03/20/07
SECTION: 2750 TIME LAST CHANGED: 13:12:50

REQUESTER: DFRC
TEST CODE: CKT184 EAFB FULLTIME RTLS
STSALL TVPLAN

ASSOCIATED DOC: 20007S 20026S 20028S
TRACKING NO. COMREV05 L111-10 L210-1 L4419 L5309
R26131

1. DESCRIPTION: TELEVISION CONFERENCE (TV CONF)

RESPONSIBLE AGENCY: DFRC

REF	TEST CODE	CAP	NOTE	TERMINATION LOCATION
T1	7,26,28	T		DFRC FOR DISTRIBUTION
T2	7,26,28	T		EXTEND TO EARTH STATION
T3	26	T		DFRC, TV CONTROL RM

TECH CONTACT: DFRC/GEORGE GRIMSHAW/661 276-3425

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/02/92
RESPONSE TRACKING: Z2695 Z4460 Z5310

[PRD] DATABASE RECORD: 15168 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/19/04
INITIAL DATE: 02/07/90
ITEM NUMBER: T127.4T DATE LAST CHANGED: 05/05/06
SECTION: 2750 TIME LAST CHANGED: 08:50:22

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 15168
ITEM NUMBER: T127.4T

REQUESTER: JSC
SUBREQUESTER: JSC/MG
TEST CODE: CKT184 FULLTIME STSALL TVPLAN

ASSOCIATED DOC: 20007S 20026S 20028S
TRACKING NO. COMREV05 L04-4-2 L210-1 L2678 L301-3
L3624 L409-6A L4510 L5309 L5503
L6829 R0404-2 R26131 R26242

1. DESCRIPTION: TELEVISION CONFERENCE (TV CONF)

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,26,28	T		MCC FOR DISTRIBUTION
T2	7,26,28	T		EXT TO GSFC

NOTE: 1. EXTEND CIRCUITS TO EARTH STATION PROVIDING SHUTTLE TV VIA FOUR WIRE VOICE CIRCUITS TERMINATING AT THE EARTH STATIONS ON A DESK OR WALL INSTRUMENT (WHICHEVER STATION MANAGER DESIRES) WITH A PUSH-TO-TALK SWITCH AND MONITOR SPEAKER MUTING WHEN PTT SWITCH IS SWITCHED.

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/19/04
RESPONSE TRACKING: Z0404-2 Z26152 Z26212 Z3621 Z4526
Z5310 Z5502 Z6829

[PRD] DATABASE RECORD: 15176 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/15/03
INITIAL DATE: 10/18/90
ITEM NUMBER: GHK128K DATE LAST CHANGED: 05/05/06

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 15176
ITEM NUMBER: GHK128K

SECTION: 2750 TIME LAST CHANGED: 08:52:49

REQUESTER:	GSFC		MSFC		KSC
SUBREQUESTER:	ESA	FR2	KSC/MK-SIO	MS101	
	OMR1/3/4	OSR1/3/4			
TEST CODE:	CKT185	STSALL	SUPSIM		
ASSOCIATED DOC:	20007S	20014S	20017S	20037S	
	20044S				
TRACKING NO.	A5503	COMREV05	KING2001	L3624	L3840
	L3856	L3916	L3941	L4918	R0312-3
	R109-89	R26130	R26263	R2715	R3114
	R4212	RSRR116			
PRIORITY:	REQUIRED				
RATIONALE:	MISSION SUPPORT				

1. DESCRIPTION: SAFE COORD (SRM & QA)

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17,37,44	T		CDSC FOR DISTRIBUTION
Y2	7,14,37	T	1	CDSC FOR EXT. TO MSFC
Y3	7,14,37	T		CDSC EXT TO GSFC FOR EXT TO NASA HQ
H3.1	7	M		CDSC EXT TO SSC
				OSR1/3/4
Y4				ALL POS REF SEC 3020 ITEM HKTY1.1.1K DBR 024257
				OMR1/3/4
Y5				ALL POS REF SEC 3020 ITEM DHKTY1.1.2K DBR 024268
				FR2

CONTINUED

[PRD] DATABASE RECORD: 15176
ITEM NUMBER: GHK128K

T6	ALL JSC CONS ITEM T44.1K	REF SEC 3020 DBR 024313
H7	ALL MSFC CONS ITEM H46.1K	REF SEC 3020 DBR 024286

NOTE 1: CONTACTS FOR DROPS AT NASA HQ, MSFC & JSC:
DARYL FRANK/EI-C/321 861-7901
DICK PERRY/NASA HQ,CODE QP/202 358-1875
DAVID MOYER/JSC/MV3/281 483-3891
PHILIP CAUTHEN/MSFC/FD43/256 544-4204

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/15/03
RESPONSE TRACKING: Z0312-6 Z26191 Z2653 Z2711 Z3110
Z3621 Z3861 Z3882 Z3953 Z3984
Z4217 Z4913

[PRD] DATABASE RECORD: 15177 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/13/04
INITIAL DATE: 10/18/90
ITEM NUMBER: HT128.1H DATE LAST CHANGED: 11/20/06
SECTION: 2750 TIME LAST CHANGED: 09:59:14

REQUESTER: MSFC JSC
SUBREQUESTER: STSR28
TEST CODE: STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20037S
TRACKING NO. COMREV05 L04-1-1 L3108 L3840 R0312-3
R0401-1 R26160 R3114

1. DESCRIPTION: SAFE COORD (SRM & QA)

RESPONSIBLE AGENCY: MSFC

CONTINUED

[PRD] DATABASE RECORD: 15177
ITEM NUMBER: HT128.1H

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
Y1	7,14,37	T		COMM BLDG. 4207 FOR DIST. TO HOSC.
T2	7,14,37	T		EXT TO JSC

POC: MSFC/PHILIP CAUTHEN/256 544-4204

COMM CONTACT: MSFC/SCOTT SCHUTZENHOFER/256 544-8496

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/13/04
RESPONSE TRACKING: Z0401-2 Z26129 Z3110 Z3130 Z3861

[PRD] DATABASE RECORD: 15178 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/13/04
INITIAL DATE: 10/18/90
ITEM NUMBER: T128.1.1T DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 09:45:20

REQUESTER: JSC
SUBREQUESTER: MER
TEST CODE: CKT185 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20037S
TRACKING NO. COMREV05 L04-1-1 L3108 L3840 R0401-1
R26160

1. DESCRIPTION: SRM & QA COORD (SAFE COORD)

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
Y1	7,14,37	T		MCC FOR DISTRIBUTION TO MER SR&QA CONSOLE.

CONTINUED

[PRD] DATABASE RECORD: 15178
ITEM NUMBER: T128.1.1T

CONTACT: JSC/KENNETH BROWN/MV3/281 483-3891

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/13/04
RESPONSE TRACKING: Z0401-2 Z26121 Z3130

[PRD] DATABASE RECORD: 514552 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/28/93
INITIAL DATE: 04/12/91
ITEM NUMBER: G128.2G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:26

REQUESTER: GSFC
SUBREQUESTER: NASA HQ
TEST CODE: CKT185 STSALL

ASSOCIATED DOC: 20007S 20014S 20037S
TRACKING NO. COMREV05 L3941 L5101

1. DESCRIPTION: SRM & QA COORD (SAFE COORD)

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
Y1	7,14,37	T		GSFC EXT TO NASA HQ FOR DIST.

COMM CONTACT: GSFC/AL DUANY/301 286-2721

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/28/93

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 514552
ITEM NUMBER: G128.2G

RESPONSE TRACKING: Z3984 Z5105

[PRD] DATABASE RECORD: 15885 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/19/04
INITIAL DATE: 05/04/90
ITEM NUMBER: GHT129G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:13

REQUESTER: GSFC MSFC JSC
SUBREQUESTER: STSR54
TEST CODE: CKT188 FULLTIME STSALL
TRACKING NO. COMREV05 KING2001 L04-4-2 L05-2-7 L2625
R0404-2 R0504-3 R109-89
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: MDM ORDERWIRE

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
H1	FULL-TIME	T/M		EXTEND FROM GSFC TO MSFC FOR DIST.
T2	FULL-TIME	T/M		EXTEND TO JSC

COMM CONTACT: GSFC/AL DUANY/301 286-2721

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/20/04
RESPONSE TRACKING: Z0404-8 Z26117 Z3530

[PRD] DATABASE RECORD: 19413 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/06/01
INITIAL DATE: 02/23/90
ITEM NUMBER: H129.1H DATE LAST CHANGED: 11/20/06
SECTION: 2750 TIME LAST CHANGED: 09:59:42

REQUESTER: MSFC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 19413
ITEM NUMBER: H129.1H

TEST CODE: FULLTIME
TRACKING NO. COMREV05 KING2001 L05-2-3 L05-2-7 R0405-3
R0502-4 R0504-3 R109-1
PRIORITY: REQUIRED
RATIONALE: NECESSARYFOR COORDINATION, AND TO WORK PROBLEMS, BETWEEN MSFC AND JSC GROUND OPS TEAMS.

1. DESCRIPTION: MDM ORDERWIRE

RESPONSIBLE AGENCY: MSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
H1	FULL-TIME	T/M		HOSC FOR DISTRIBUTION

POC: MSFC/PHILIP CAUTHEN/256 544-4204
COMM CONTACT: MSFC/SCOTT SCHUTZENHOFER/256 544-8496

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/06/01

[PRD] DATABASE RECORD: 586817 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/13/06
INITIAL DATE: 04/13/06
ITEM NUMBER: T129.2T DATE LAST CHANGED: 03/29/07
SECTION: 2750 TIME LAST CHANGED: 08:01:26

REQUESTER: JSC
TEST CODE: FULLTIME STSALL
TRACKING NO. COMREV05

1. DESCRIPTION: MDM ORDERWIRE

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION

CONTINUED

[PRD] DATABASE RECORD: 586817
ITEM NUMBER: T129.2T

T1 FULL-TIME T/M EXTEND TO JSC

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/13/06

[PRD] DATABASE RECORD: 19958 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/26/89
INITIAL DATE: 10/26/89
ITEM NUMBER: TK130T DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 09:49:55

REQUESTER: JSC KSC
TEST CODE: CKT205 STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 L3306

1. DESCRIPTION: CAPE FLIGHT CONTROL OFFICER PRIVATE LINE
(CAPE FCO PL)

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7	T		MCC DISTRIBUTION
T2	7	T		EXTENSION TO KSC-CDSC
T3	7	T	1	FD AND FIDO CONSOLES, MCC

NOTE: 1. RING-DOWN CAPABILITY IS REQUIRED AT THESE TERMINATIONS.

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 19958
ITEM NUMBER: TK130T

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/26/89
RESPONSE TRACKING: Z3304

[PRD] DATABASE RECORD: 19959 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/26/89
INITIAL DATE: 10/26/89
ITEM NUMBER: KE130.1K DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 09:50:20

REQUESTER: KSC ER
SUBREQUESTER: JSC
TEST CODE: CKT205 STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 L3306

1. DESCRIPTION: CAPE FLIGHT CONTROL OFFICER PRIVATE LINE
(CAPE FCO PL)

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7	T		CDSC FOR EXTENSION TO CCAFS X-Y BUILDING.

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/26/89
RESPONSE TRACKING: Z3304

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 19960 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/26/89
INITIAL DATE: 10/26/89
ITEM NUMBER: E130.1.1E DATE LAST CHANGED: 04/28/06
SECTION: 2750 TIME LAST CHANGED: 09:51:14

REQUESTER: ER
TEST CODE: CKT205 STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 L3306

1. DESCRIPTION: CAPE FLIGHT CONTROL OFFICER PRIVATE LINE (CAPE FCO PL)

RESPONSIBLE AGENCY: ER

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7	T	1	CCAFS X-Y BUILDING DISTRIBUTION
T2	7	T	1	CCAFS ROCC FCO

NOTE 1: RING-DOWN CAPABILITY IS REQUIRED AT THESE TERMINATIONS.

TECH CONTACT: ER/MIKE GAWEL/321 853-8118

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/26/89
RESPONSE TRACKING: Z3304

[PRD] DATABASE RECORD: 20813 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/09/03
INITIAL DATE: 05/04/90
ITEM NUMBER: THK131KT DATE LAST CHANGED: 06/23/06
SECTION: 2750 TIME LAST CHANGED: 12:58:03

REQUESTER: JSC MSFC KSC
SUBREQUESTER: JSC/MS4 JSC/WS8
TEST CODE: CKT208 FULLTIME STSALL

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 20813
ITEM NUMBER: THK131KT

ASSOCIATED DOC: 20007S 20017S
TRACKING NO. A106-1 COMREV05 KING2001 L002-10 L003-1
L003-9 L03-12-1 L03-3-1 L3505 L602-1
L711-2 L908-1 R0312-2 R3509 R9901
RSR0326
PRIORITY: REQUIRED
RATIONALE: (FOR REF H4) MOVING DOL ENVIRONMENT DISCUSSION TO DOLILU COORD WILL EVENTUALLY ELIMINATE A PERSON TRAVELING FROM MARSHALL TO JSC FOR EACH LAUNCH.

1. DESCRIPTION: DOLILU COORD

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,17	T		JSC, BLDG 30 FOR DIST
T2	7,17	T		EXT FROM JSC BLDG 30 TO B-NS/HOU BLDG. 91-14 (TOWER II)
T3	7,17	T		EXT FROM JSC BLDG 30 TO KSC/CDSC
H4	7,17	T		EXT FROM JSC BLDG 30 TO MSFC

CONTACT: FOR EXT TO B-NS/HOU/SHELIA GONZALES/281 226-5546
ER/CSR-3100/LOU LINDEN/321 494-2461
MSFC/PHILIP CAUTHEN/256 544-4204

COMM CONTACT: JSC/KEN JONES/281 483-7671

NOTE: THE CIRCUIT WILL BE "FULL PERIOD" FOR JSC.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/09/03
RESPONSE TRACKING: Z0310-1

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 20813
ITEM NUMBER: THK131KT

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/09/03
RESPONSE TRACKING: Z0312-2 Z0326

[PRD] DATABASE RECORD: 586821 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/13/06
INITIAL DATE: 04/13/06
ITEM NUMBER: KE131.1K DATE LAST CHANGED: 05/04/07
SECTION: 2750 TIME LAST CHANGED: 08:19:22

REQUESTER: KSC ER
TEST CODE: FULLTIME STSALL

ASSOCIATED DOC: 20007S 20017S
TRACKING NO. COMREV05

1. DESCRIPTION: DOLILU COORD

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION	LOCATION
T3	7,17	T		EXT TO CCAFS XY	

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

NOTE: THE CIRCUIT WILL BE "FULL PERIOD" FOR JSC.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/13/06

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 20814 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/14/99
INITIAL DATE: 02/14/90
ITEM NUMBER: E131.1.1E DATE LAST CHANGED: 05/01/06
SECTION: 2750 TIME LAST CHANGED: 09:56:44

REQUESTER: ER
SUBREQUESTER: JSC/MS4
TEST CODE: CKT208 FULLTIME STSALL

ASSOCIATED DOC: 20007S 20017S
TRACKING NO. COMREV05 L002-10 R3505 R9304

1. DESCRIPTION: DOLILU COORD

RESPONSIBLE AGENCY: ER

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,17	T		CCAFS, X-Y (BLDG 1641) FOR DIST
T2	7,17	T		CCAFS, ROCC RTCS, RANGE SAFETY (DOLILU COMPUTER OPERATOR

CONTACT: ER/MIKE GAWEL/321 853-8118

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/14/99
RESPONSE TRACKING: Z3501 Z9304

[PRD] DATABASE RECORD: 518842 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/03/05
INITIAL DATE: 03/05/92
ITEM NUMBER: TG132T DATE LAST CHANGED: 05/03/06
SECTION: 2750 TIME LAST CHANGED: 13:51:27

REQUESTER: JSC GSFC
SUBREQUESTER: GSFCR1 JSC/DV14
TEST CODE: CKT210 LANDNG LAUNCH STSALL

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 518842
ITEM NUMBER: TG132T

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
TRACKING NO. COMREV05 L05-3-2 L202-4 L202-4A L710-2
R0503-1 R0504-3 R4511 R8702

1. DESCRIPTION: SHUTTLE SUPPORT COORD

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,26,27,28	T		MCC FOR DISTRIBUTION
GT2	7,26,27,28	T		EXTEND TO GSFC

REFERENCE FLS2750, GST63T, DBR 515826

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/07/05
RESPONSE TRACKING: Z4513 Z8703

[PRD] DATABASE RECORD: 518925 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/03/05
INITIAL DATE: 03/05/92
ITEM NUMBER: G132.1G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:26

REQUESTER: GSFC
SUBREQUESTER: JSC JSC/DV14
TEST CODE: CKT210 LANDNG LAUNCH STSALL

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
TRACKING NO. COMREV05 L05-3-2 L202-4A R0503-1 R0504-3
R4511

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 518925
ITEM NUMBER: G132.1G

1. DESCRIPTION: SHUTTLE SUPPORT COORD

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
GT1	7,26,27,28	T		GSFC DISTRIBUTION
GT2	7,26,27,28	T		EXTEND TO 21 SOPS/SMC DET 12

REF: FLS2750, ITEM T63.2G, DBR 518927

COMM CONTACT: GSFC/AL DUANY/301 286-2721

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/03/05
RESPONSE TRACKING: Z4513

[PRD] DATABASE RECORD: 518924 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/03/05
INITIAL DATE: 03/05/92
ITEM NUMBER: S132.1.1GS DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:26

REQUESTER: SDTW
SUBREQUESTER: GSFC JSC JSC/DV14
TEST CODE: CKT210 LANDNG LAUNCH STSALL

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
TRACKING NO. COMREV05 L05-3-2 L202-4A R0503-1 R0504-3
R4511

1. DESCRIPTION: SHUTTLE SUPPORT COORD

RESPONSIBLE AGENCY: 21 SOPS/SMC DET 12 (GSFC)

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 518924
ITEM NUMBER: S132.1.1GS

GST1	7,26,27,28	T	21 SOPS FOR LOCAL DIST AND TO SMC DET 12 (CERES)

REF: FLS2750, ITEM T63.1GS, DBR 518926

COMM CONTACT: GSFC/AL DUANY/301 286-2721

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/03/05
RESPONSE TRACKING: Z4513

SUPPLIER: SDTW AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/03/05
RESPONSE TRACKING: Z4513

[PRD] DATABASE RECORD: 518830 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/21/06
INITIAL DATE: 02/24/92
ITEM NUMBER: T133K DATE LAST CHANGED: 05/24/06
SECTION: 2750 TIME LAST CHANGED: 13:45:12

REQUESTER: JSC
SUBREQUESTER: JSC/DV14
TEST CODE: CKT209 LANDNG LAUNCH STSALL

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
TRACKING NO. COMREV05 L05-2-3 L06-4-1 L202-3 R0502-4
R0604-1

1. DESCRIPTION: FAA/ATC

RESPONSIBLE AGENCY: KSC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 518830
ITEM NUMBER: T133K

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,26,27,28	T		CDSC FOR DIST.
T2	7,26,27,28	T		EXT TO JSC
T3	7,26,27,28	T		EXT TO ATC MIAMI, FL

REFERENCE FLS2750, T11.1K, DBR 267472

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/21/06

[PRD] DATABASE RECORD: 518809 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/21/06
INITIAL DATE: 02/21/92
ITEM NUMBER: T133.1T DATE LAST CHANGED: 05/16/06
SECTION: 2750 TIME LAST CHANGED: 07:57:20

REQUESTER: JSC
SUBREQUESTER: JSC/DV14
TEST CODE: CKT209 LANDNG LAUNCH STSALL

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
TRACKING NO. COMREV05 L03-4-1A L05-2-3 L06-4-1 L202-3
L801-1 L801-3 R03-06-2 R0502-4 R0604-1
R4510 R8903 R9005

1. DESCRIPTION: FAA/ATC

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,26,27,28	T		MCC DISTRIBUTION

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 518809
ITEM NUMBER: T133.1T

REFERENCE FLS2750, T11.3T, DBR 241658

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/21/06
RESPONSE TRACKING: Z03-06-2 Z4512 Z8906 Z9005

[PRD] DATABASE RECORD: 518843 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/25/92
INITIAL DATE: 02/25/92
ITEM NUMBER: T133.1T DATE LAST CHANGED: 04/20/06
SECTION: 2750 TIME LAST CHANGED: 14:18:59

REQUESTER: JSC
SUBREQUESTER: JSC/DV14
TEST CODE: ALPHSE CKT211 LANDNG LAUNCH
STSALL

ASSOCIATED DOC: 20007S 20014S 20017S 20026S
20027S 20028S
TRACKING NO. COMREV05 L202-5 R4512

1. DESCRIPTION: GROUND CONTROLLER NETWORK OPERATIONS MANAGER
(GC/NOM)

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17 26,27,28	T		MCC FOR DISTRIBUTION

REFERENCE: FLS2750, T13.2T, DBR 263982

COMM CONTACT: JSC/KEN JONES/281 483-7671

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 518843
ITEM NUMBER: T133.1T

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/25/92
RESPONSE TRACKING: Z4514

[PRD] DATABASE RECORD: 518845 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/14/06
INITIAL DATE: 02/25/92
ITEM NUMBER: GT134G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:26

REQUESTER: GSFC JSC
SUBREQUESTER: JSC/DV14
TEST CODE: ALPHSE CKT211 LANDNG LAUNCH
STSALL

ASSOCIATED DOC: 20007S 20014S 20017S 20026S
20027S 20028S
TRACKING NO. COMREV05 GSFCREV06 L202-5 R4512

1. DESCRIPTION: GROUND CONTROLLER/NETWORK OPERATIONS MANAGER (GC/NOM)

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17 26,27,28	T		GSFC/NCC DISTRIBUTION
T2	7,14,17 26,27,28	T		EXTEND TO JSC
T3	7,14,17, 26,27,28	T		EXT TO WSC

COMM CONTACT: GSFC/AL DUANY/301 286-2721

CONTINUED

[PRD] DATABASE RECORD: 518845
ITEM NUMBER: GT134G

REFERENCE FLS2750, T13.1G, DBR 253386

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/14/06
RESPONSE TRACKING: Z4514

[PRD] DATABASE RECORD: 518933 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/03/06
INITIAL DATE: 03/06/92
ITEM NUMBER: KG135K DATE LAST CHANGED: 11/09/06
SECTION: 2750 TIME LAST CHANGED: 08:36:20

REQUESTER: KSC GSFC
SUBREQUESTER: I-MILA JSC/DV14
TEST CODE: LAUNCH STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 GSFCREV06 L05-2-3 L202-6A L4508
L4531 L4924 NSG0906 R0502-4

1. DESCRIPTION: JSC/MILA A/G-1 OIS-212

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
1	7	T		KSC FOR DISTRIBUTION
2	7	T		EXT TO MILA

NOTE: MILA FEEDS THIS CIRCUIT TO KSC ON THE A/G-1 ASTRO COMM.
THIS CIRCUIT WILL BE CONFIGURED MONITOR AFTER LIFTOFF
UNTIL MILA LOS, VIA HOUSTON COMM TECH.

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 518933
ITEM NUMBER: KG135K

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/03/06
RESPONSE TRACKING: Z4921

[PRD] DATABASE RECORD: 518930 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/03/06
INITIAL DATE: 03/06/92
ITEM NUMBER: TK135.1T DATE LAST CHANGED: 11/15/06
SECTION: 2750 TIME LAST CHANGED: 13:20:53

REQUESTER: JSC KSC
SUBREQUESTER: I-MIL JSC/DV14
TEST CODE: LAUNCH STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 L05-2-3 L202-6A L4508 L4531
L4924 NSG0906 R0502-4

1. DESCRIPTION: JSC/MIL A/G 1

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7	T	1	EXTEND TO MILA VIA KSC/CDSC

COMM CONTACT: JSC/KEN JONES/281 483-7671

NOTE 1: DIVERSELY ROUTED WITH E AND M SIGNALING.

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/03/06
RESPONSE TRACKING: Z4522 Z4547 Z4921

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 518930
ITEM NUMBER: TK135.1T

[PRD] DATABASE RECORD: 518932 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/03/06
INITIAL DATE: 03/06/92
ITEM NUMBER: GK135.2G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:17:33

REQUESTER: GSFC KSC
SUBREQUESTER: JSC/DV14
TEST CODE: LAUNCH STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 GSFCREV06 L05-2-3 L202-6 L202-6A
L4508 L4531 NSG0906 R0502-4

1. DESCRIPTION: JSC/MILA A/G 1 OIS-212

RESPONSIBLE AGENCY: GSFC/MILA

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
1	7	T		EXTEND TO MILA COMM TECH
2	7	T		MILA FOR DISTRIBUTION

POC: MILA/MELISSA BLIZZARD/321 867-1098
COMM CONTACT: GSFC/AL DUANY/301 286-2721
KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: I-MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/16/06
RESPONSE TRACKING: Z0502-5 Z4909

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 518961 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/03/06
INITIAL DATE: 03/06/92
ITEM NUMBER: T136T DATE LAST CHANGED: 11/15/06
SECTION: 2750 TIME LAST CHANGED: 13:21:14

REQUESTER: JSC
SUBREQUESTER: I-MIL JSC/DV14
TEST CODE: LAUNCH STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 L05-2-3 L202-6A L4508 L4531
L4924 NSG0906 R0502-4

1. DESCRIPTION: JSC/MIL A/G 2 OIS-213

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7	T	1	EXTEND TO MILA VIA KSC/CDSC

NOTE 1: DIVERSELY ROUTED WITH E AND M SIGNALING.

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/03/06
RESPONSE TRACKING: Z4522 Z4547 Z4921

[PRD] DATABASE RECORD: 518963 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/03/06
INITIAL DATE: 03/06/92
ITEM NUMBER: KG136.1K DATE LAST CHANGED: 11/09/06
SECTION: 2750 TIME LAST CHANGED: 08:41:42

REQUESTER: KSC GSFC
SUBREQUESTER: I-MIL JSC/DV14
TEST CODE: LAUNCH STSALL

ASSOCIATED DOC: 20007S

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 518963
ITEM NUMBER: KG136.1K

TRACKING NO. COMREV05 L05-2-3 L202-6A L4508 L4531
L4924 NSG0906 R0502-4

1. DESCRIPTION: JSC/MIL A/G-2 OIS 213

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
1	7	T		KSC FOR DISTRIBUTION
2	7	T		KSC EXT TO MILA

NOTE: MIL FEEDS THIS CIRCUIT TO KSC ON THE A/G-2 ASTRO COMM. THIS CIRCUIT WILL BE CONFIGURED MONITOR AFTER LIFTOFF UNTIL MIL LOS, VIA HOUSTON COMM TECH.

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/03/06
RESPONSE TRACKING: Z4921

[PRD] DATABASE RECORD: 518962 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/03/06
INITIAL DATE: 03/06/92
ITEM NUMBER: GK136.2G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:37:55

REQUESTER: GSFC KSC
SUBREQUESTER: JSC/DV14
TEST CODE: LAUNCH STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 GSFCREV06 L05-2-3 L202-6 L202-6A
L4508 L4531 NSG0906 R0502-4

1. DESCRIPTION: JSC/MILA A/G 2 OIS-213

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 518962
ITEM NUMBER: GK136.2G

RESPONSIBLE AGENCY: GSFC/MILA

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
1	7	T		EXTEND TO MILA COMM TECH
2	7	T		MILA FOR DISTRIBUTION

COMM CONTACT: GSFC/AL DUANY/301 286-2721
KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: I-MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/16/06
RESPONSE TRACKING: Z4909

[PRD] DATABASE RECORD: 518965 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/03/06
INITIAL DATE: 03/06/92
ITEM NUMBER: TK137T DATE LAST CHANGED: 11/15/06
SECTION: 2750 TIME LAST CHANGED: 13:21:34

REQUESTER: JSC KSC
SUBREQUESTER: I-MIL JSC/DV14
TEST CODE: LAUNCH STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 L05-2-3 L202-6A L4508 L4531
L4924 NSG0906 R0502-4

1. DESCRIPTION: JSC/MIL A/G 3 OIS 212

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7	T	1	EXTEND TO MILA VIA KSC/CDSC

CONTINUED

[PRD] DATABASE RECORD: 518965
ITEM NUMBER: TK137T

NOTE 1: DIVERSELY ROUTED WITH E AND M SIGNALING. B/U TO JSC/MIL A/G-1.

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/03/06
RESPONSE TRACKING: Z4522 Z4547 Z4921

[PRD] DATABASE RECORD: 518966 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/19/92
INITIAL DATE: 03/06/92
ITEM NUMBER: GK137G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:26

REQUESTER: GSFC KSC
SUBREQUESTER: I-MILA JSC/DV14
TEST CODE: CKT214 LAUNCH STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 GSFCREV06 L05-2-3 L202-6A L4508
L4531 R0502-4

1. DESCRIPTION: JSC/MILA A/G 3 OIS-212

RESPONSIBLE AGENCY: GSFC/MILA

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7	T		EXTEND TO MIL COMM TECH
T2	7	T		MILA FOR DISTRIBUTION
T3	7	T		EXTEND TO KSC/CDSC

COMM CONTACT: GSFC/AL DUANY/301 286-2721

CONTINUED

[PRD] DATABASE RECORD: 518966
ITEM NUMBER: GK137G

KSC/MONIQUE MCLAMB/321 867-8540

NOTE: BACKUP TO JSC/MILA A/G 1

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: I-MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/11/05
RESPONSE TRACKING: Z0502-5 Z4909

[PRD] DATABASE RECORD: 518967 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/03/06
INITIAL DATE: 03/06/92
ITEM NUMBER: KG137.1K DATE LAST CHANGED: 11/09/06
SECTION: 2750 TIME LAST CHANGED: 08:43:33

REQUESTER: KSC GSFC
SUBREQUESTER: I-MIL JSC/DV14
TEST CODE: LAUNCH STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 L05-2-3 L202-6A L4508 L4531
L4924 NSG0906 R0502-4

1. DESCRIPTION: JSC/MIL A/G 3 OIS-212

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
1	7	T		KSC FOR DISTRIBUTION
2	7	T		EXT TO MILA

NOTE: THIS CIRCUIT IS BACKUP TO JSC/MIL A/G-1.

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 518967
ITEM NUMBER: KG137.1K

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/03/06
RESPONSE TRACKING: Z4921

[PRD] DATABASE RECORD: 589457 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/03/06
INITIAL DATE: 10/03/06
ITEM NUMBER: GK137.2G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:49:25

REQUESTER: GSFC KSC
TEST CODE: LAUNCH STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. NSG0906

1. DESCRIPTION: JSC/MILA A/G 3 OIS-212

RESPONSIBLE AGENCY: GSFC/MILA

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
1	7	T		EXTEND TO MILA COMM TECH
2	7	T		MILA FOR DISTRIBUTION

POC: MILA/MELISSA BLIZZARD/321 867-1098
COMM CONTACT: GSFC/AL DUANY/301 286-2721
KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/16/06

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 518968 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/03/06
INITIAL DATE: 03/06/92
ITEM NUMBER: TK138T DATE LAST CHANGED: 11/15/06
SECTION: 2750 TIME LAST CHANGED: 13:21:53

REQUESTER: JSC KSC
SUBREQUESTER: I-MILA JSC/DV14
TEST CODE: LAUNCH STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 GSFCREV06 L05-2-4 L202-6A L4508
L4531 L4924 NSG0906 R0502-4

1. DESCRIPTION: JSC/MILA A/G 4 OIS-213

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7	T	1	EXTEND TO MILA VIA KSC/CDSC

COMM CONTACT: JSC/KEN JONES/281 483-7671

NOTE 1: DIVERSELY ROUTED WITH E AND M SIGNALING.
B/U TO JSC/MILA A/G-2.

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/03/06
RESPONSE TRACKING: Z4522 Z4547 Z4921

[PRD] DATABASE RECORD: 518970 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/03/06
INITIAL DATE: 03/06/92
ITEM NUMBER: KG138.1K DATE LAST CHANGED: 11/09/06
SECTION: 2750 TIME LAST CHANGED: 08:46:43

REQUESTER: KSC GSFC
SUBREQUESTER: I-MIL JSC/DV14

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 518970
ITEM NUMBER: KG138.1K

TEST CODE: LAUNCH STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 L05-2-3 L202-6 L202-6A L4508
L4531 L4924 NSG0906 R0502-4

1. DESCRIPTION: JSC/MIL A/G 4 OIS-213

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
1	7	T		KSC FOR DISTRIBUTION
2	7	T		EXT TO MILA

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

NOTE: THIS CIRCUIT IS BACKUP TO JSC/MIL A/G-2.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/03/06
RESPONSE TRACKING: Z4921

[PRD] DATABASE RECORD: 518969 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/03/06
INITIAL DATE: 03/06/92
ITEM NUMBER: GK138.2G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:38:38

REQUESTER: GSFC KSC
SUBREQUESTER: JSC/DV14
TEST CODE: LAUNCH STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 L05-2-3 L202-6 L202-6A L4508
L4531 NSG0906 R0502-4

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 518969
ITEM NUMBER: GK138.2G

1. DESCRIPTION: JSC/MIL A/G 4 OIS-213

RESPONSIBLE AGENCY: GSFC/MILA

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
1	7	T		EXTEND TO MILA COMM TECH
2	7	T		MIL FOR DISTRIBUTION

COMM CONTACT: GSFC/AL DUANY/301 286-2721
KSC/MONIQUE MCLAMB/321 867-8540

NOTE: BACKUP TO JSC/MIL A/G 2.

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: I-MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/16/06
RESPONSE TRACKING: Z0502-5 Z4909

[PRD] DATABASE RECORD: 520910 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/19/04
INITIAL DATE: 09/04/92
ITEM NUMBER: GHKT139G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:27

REQUESTER: GSFC MSFC KSC
JSC
SUBREQUESTER: JSC/DV14
TEST CODE: CKT216 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
TRACKING NO. COMREV05 L04-4-2 L209-1 L412-1 L4728
R0404-2 R6308 R8307

1. DESCRIPTION: TDRSS NETWORK (TN) COORD

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 520910
ITEM NUMBER: GHKT139G

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,26,27 28	T		GSFC DISTRIBUTION
T2	7,26,27 28	T		EXTEND TO JSC MCC
T3	7,26,27 28	T		EXTEND TO WSC
T4	7,26,27 28	M		EXTEND TO MSFC
K5	7,26,27 28	M		EXTEND TO NASA HQ

COMM CONTACT: GSFC/AL DUANY/301 286-2721

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/20/04
RESPONSE TRACKING: Z0404-8 Z4737 Z6310 Z8309

[PRD] DATABASE RECORD: 586857 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/20/06
INITIAL DATE: 04/20/06
ITEM NUMBER: T139.1T DATE LAST CHANGED: 03/29/07
SECTION: 2750 TIME LAST CHANGED: 08:01:52

REQUESTER: JSC
TEST CODE: CKT216 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
TRACKING NO. COMREV05

1. DESCRIPTION: TN COORD

RESPONSIBLE AGENCY: JSC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 586857
ITEM NUMBER: T139.1T

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,26,27 28	T		EXTEND TO JSC MCC

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/20/06

[PRD] DATABASE RECORD: 586858 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/20/06
INITIAL DATE: 04/20/06
ITEM NUMBER: G139.2Z DATE LAST CHANGED: 10/31/06
SECTION: 2750 TIME LAST CHANGED: 10:43:45

REQUESTER: GSFC
SUBREQUESTER: WSC
TEST CODE: CKT216 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
TRACKING NO. COMREV05

1. DESCRIPTION: TN COORD

RESPONSIBLE AGENCY: WSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,26,27 28	T		EXTEND TO WSC

TECH CONTACT: WSTF/ROBERT MITCHELL/505 524-5774

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 586858
ITEM NUMBER: G139.2Z

COMM CONTACT: WSTF/SCOTT SEILER/505 524-5124

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
SUBSUPPLIER: WSC
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/20/06

[PRD] DATABASE RECORD: 586859 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/05/06
INITIAL DATE: 05/05/06
ITEM NUMBER: H139.3H DATE LAST CHANGED: 05/15/06
SECTION: 2750 TIME LAST CHANGED: 10:21:37

REQUESTER: MSFC
TEST CODE: CKT216 STSALL SUPSIM

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
TRACKING NO. COMREV05

1. DESCRIPTION: TN COORD

RESPONSIBLE AGENCY: MSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,26,27 28	T		EXTEND TO MSFC

TECH CONTACT: MSFC/PHILIP CAUTHEN/256 544-4204

COMM CONTACT: MSFC/SCOTT SCHUTZENHOFER/256 544-8496

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/05/06

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 529164 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/06/95
INITIAL DATE: 03/09/95
ITEM NUMBER: KG140K DATE LAST CHANGED: 05/01/06
SECTION: 2750 TIME LAST CHANGED: 10:34:33

REQUESTER: KSC GSFC
SUBREQUESTER: KSC/PH-L
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
TRACKING NO. COMREV05 DB98 ELSRR9501 L6712 R7101
PRIORITY: MANDATORY
RATIONALE: MANDATORY TO TALK TO TWO CONVOYS SIMULTANEOUSLY.

1. DESCRIPTION: ALS CONVOY COMMANDER

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINAL LOCATION
K1	7,26,27,28	T		LCC CONSOLES A3-8, AB9, FR 1/3
G2	7,26,27,28	T		CDSC FOR EXT. TO GSFC

PRIME: KSC/PH-L/GLEN LOCKWOOD/321 861-9310

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

REFERENCE: SEE LLS 2750, ITEM K217.2G, DBR 529165
SEE LLS 2700, ITEM K130EGK, DBR 528850

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/01/95
RESPONSE TRACKING: Z7103 Z7407

[PRD] DATABASE RECORD: 529165 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/28/05
INITIAL DATE: 03/09/95
ITEM NUMBER: GX140.1G DATE LAST CHANGED: 11/16/06

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 529165
ITEM NUMBER: GX140.1G

SECTION: 2750 TIME LAST CHANGED: 07:13:27

REQUESTER: GSFC DFRC
SUBREQUESTER: KSC/PH-L
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
TRACKING NO. COMREV05 ELSRR9501 GSFCREV06 L6712 R0501-1 R7107
PRIORITY: MANDATORY
RATIONALE: MANDATORY TO TALK TO TWO CONVOYS SIMULTANEOUSLY.

1. DESCRIPTION: ALS CONVOY COMMANDER

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,27	T	1,2	GSFC FOR EXTN. TO WSC/WSSH
K2	7,26	T	1,2	GSFC FOR EXT. TO DFRC

COMM CONTACT: GSFC/AL DUANY/301 286-2721

NOTE 1: IF DFRC OR WSSH BECOME THE PRIME LANDING SITE, THE PRIME CONVOY COMMANDER NET CONFIGURATION WILL BE USED.

NOTE 2: THIS CIRCUIT WILL BE EXTENDED TO DFRC/WSC/WSSH VIA EXISTING CONVOY COMMAND NET CIRCUITS IF REQUIRED.

REFERENCE: SEE LLS 2700, ITEM K130EGK, DBR 528850
SEE LLS 2750, ITEM GK217.1K, DBR 529164

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: TONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/28/05

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 529165
ITEM NUMBER: GX140.1G

RESPONSE TRACKING: Z0105-1 Z7302

[PRD] DATABASE RECORD: 586861 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/20/06
INITIAL DATE: 04/20/06
ITEM NUMBER: G140.1.1Z DATE LAST CHANGED: 05/04/07
SECTION: 2750 TIME LAST CHANGED: 07:30:42

REQUESTER: GSFC
SUBREQUESTER: WSC/WSSH
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20027S
TRACKING NO. COMREV05

1. DESCRIPTION: ALS CONVOY COMMANDER

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,27	T		GSFC FOR EXTN. TO WSC/WSSH

POC: WSTF/ROBERT MITCHELL/505 524-5774

COMM CONTACT: WSTF/ZIGGY ZAPEN/505 524-5556

NOTE 1: IF DFRC OR WSSH BECOME THE PRIME LANDING SITE, THE PRIME CONVOY COMMANDER NET CONFIGURATION WILL BE USED.

NOTE 2: THIS CIRCUIT WILL BE EXTENDED TO DFRC/WSC/WSSH VIA EXISTING CONVOY COMMAND NET CIRCUITS IF REQUIRED.

REFERENCE: SEE LLS 2700, ITEM K130EGK, DBR 528850
SEE LLS 2750, ITEM GK217.1K, DBR 529164

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 586861
ITEM NUMBER: G140.1.1Z

SUBSUPPLIER: WSC WSSH
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/20/06

[PRD] DATABASE RECORD: 586862 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/20/06
INITIAL DATE: 04/20/06
ITEM NUMBER: X140.1.2X DATE LAST CHANGED: 03/22/07
SECTION: 2750 TIME LAST CHANGED: 09:18:46

REQUESTER: DFRC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20026S
TRACKING NO. COMREV05

1. DESCRIPTION: ALS CONVOY COMMANDER

RESPONSIBLE AGENCY: DFRC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,26	T		GSFC FOR EXT. TO DFRC

NOTE 1: IF DFRC OR WSSH BECOME THE PRIME LANDING SITE, THE PRIME CONVOY COMMANDER NET CONFIGURATION WILL BE USED.

NOTE 2: THIS CIRCUIT WILL BE EXTENDED TO DFRC/WSC/WSSH VIA EXISTING CONVOY COMMAND NET CIRCUITS IF REQUIRED.

REFERENCE: SEE LLS 2700, ITEM K130EGK, DBR 528850
SEE LLS 2750, ITEM GK217.1K, DBR 529164

TECH CONTACT: DFRC/GEORGE GRIMSHAW/661 276-3425

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
RESPONDER: GEORGE GRIMSHAW/661 276-3425

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 586862
ITEM NUMBER: X140.1.2X

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/20/06

[PRD] DATABASE RECORD: 560934 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/23/04
INITIAL DATE: 10/22/01
ITEM NUMBER: KH141KT DATE LAST CHANGED: 05/05/06
SECTION: 2750 TIME LAST CHANGED: 09:39:01

REQUESTER: KSC MSFC
SUBREQUESTER: JSC/MV USA-HQ
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20017S 20037S
TRACKING NO. COMREV05 L01-9-2 L01-9-2A L04-4-2 L04-4-2A
R0312-1 R0404-2 R0404-5 R108-7
PRIORITY: REQUIRED
RATIONALE: USED FOR COORDINATION AMONG THE USA SENIOR MANAGEMENT AT KSC, MSFC, AND THE JSC MER.

1. DESCRIPTION: SPACE FLIGHT OPERATIONS CONTRACT (SFOC) MANAGEMENT COORD.

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,17,37	T	1	CDSC FOR DIST.
T2	7,17,37	T		CDSC FOR EXT TO MSFC
				OSR 1/3/4
Y4	7,17,37	T	1	CR 1/3 OSR A9 STA (100-43) (104-63) CR 1/3 OSR A2 STA (101-03) (105-23)
				OMR 1/3/4
Y5	7,17,37	T	1	CR 1/3 OMR A10 STA (102-64)

CONTINUED

[PRD] DATABASE RECORD: 560934
ITEM NUMBER: KH141KT

(104-05)

FR 2

T6	7,17,37	T	1	CR-2 O223/10290 STA 102-83 (104-05)
H7	7,17,37	T	1	CR-2 0232 A12 STA 103-53
H8	7,17,37	T	1	CR-2 0240 A1 STA 103-6D

LC-39 (ARF)

H9		T	1	ARF RM MO3D STA

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

NOTE 1: CIRCUIT TO BE UP FOR LAUNCH FROM L-9 HOURS TO L+30 MINUTES.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/26/04
RESPONSE TRACKING: Z0404-8

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/23/04
RESPONSE TRACKING: Z0312-1 Z0404-2 Z0404-5

[PRD] DATABASE RECORD: 560937 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/23/04
INITIAL DATE: 10/30/01
ITEM NUMBER: HT141.1H DATE LAST CHANGED: 11/20/06
SECTION: 2750 TIME LAST CHANGED: 10:00:09

REQUESTER: MSFC JSC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20017S 20037S
TRACKING NO. COMREV05 KING2001 L01-9-2 L01-9-2A L04-4-2

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 560937
ITEM NUMBER: HT141.1H

L04-4-2A R0312-1 R0404-2 R0404-5 R108-7
R109-89
PRIORITY: REQUIRED
RATIONALE: USED FOR COORDINATION AMONG THE USA SENIOR MANAGEMENT AT KSC, AND THE MSFC HOSC.

1. DESCRIPTION: SPACE FLIGHT OPERATIONS CONTRACT (SFOC) MANAGEMENT COORD.

RESPONSIBLE AGECNY: MSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
1	7,17,37	T	1	HOSC FOR DIST.
2	7,17,37	T	1	JSC/MCC TO DIST.

POC: MSFC/PHILIP CAUTHEN/EO60/256 544-4204
COMM CONTACT: SCOTT SCHUTZENHOFER/MP71/256 544-5774

NOTE 1: CIRCUIT TO BE UP FOR LAUNCH FROM L-9 HOURS TO L+30 MINUTES.

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/23/04
RESPONSE TRACKING: Z0312-1 Z0404-5 Z108-9

[PRD] DATABASE RECORD: 560935 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/19/04
INITIAL DATE: 10/22/01
ITEM NUMBER: T141.1.1T DATE LAST CHANGED: 05/01/06
SECTION: 2750 TIME LAST CHANGED: 10:39:03

REQUESTER: JSC
SUBREQUESTER: JSC/MV USAHQ
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20017S 20037S
TRACKING NO. COMREV05 L01-9-2 L01-9-2A L04-4-2 R0404-2

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 560935
ITEM NUMBER: T141.1.1T

R108-7
PRIORITY: REQUIRED
RATIONALE: USED FOR COORDINATION AMONG THE USA SENIOR MANAGEMENT AT KSC, AND THE JSC MER.

1. DESCRIPTION: SPACE FLIGHT OPERATIONS CONTRACT (SFOC) MANAGEMENT COORD.

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,17,37	T	1,2	JSC MER

TECHNICAL CONTACT: USA HQ/BERT WAGSTER/281 282-6739

COMM CONTACT: JSC/KEN JONES/281 483-7671

NOTE 1: CIRCUIT TO BE UP FOR LAUNCH FROM L-9 HOURS TO L+30 MINUTES.
NOTE 2: PATCHABLE ON REQUEST TO "MCC/OIS PATCH 1-7", DBR 295559.

REFERENCE: SECTION 2730, ITEM HK22G, DBR 560936

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/19/04
RESPONSE TRACKING: Z0312-1 Z0404-2

[PRD] DATABASE RECORD: 568741 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/09/06
INITIAL DATE: 12/11/02
ITEM NUMBER: KT142K DATE LAST CHANGED: 11/14/06
SECTION: 2750 TIME LAST CHANGED: 07:36:40

REQUESTER: KSC JSC
SUBREQUESTER: ESA FR2 KSC/MK-SIO OMR3/4
OSR3/4
TEST CODE: ALPHSE

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 568741
ITEM NUMBER: KT142K

ASSOCIATED DOC: 20007S 20014S 20017S 20037S 20044S
TRACKING NO. COMREV05 L04-6-3 L05-02-3 L05-2-6 L06-7-2 R0502-4 R0502-8 R0607-3 R0611-2 R107-3
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: ETL ICE - OIS-322 (DEBRIS INTEGRATION)

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17, 37,44	T		CDSC FOR DIST
T2		T		EXTEND TO JSC
T3	7	T		EXTEND TO NASA DEBRIS RADAR SITE
				OSR3/4
Y3				ALL POS REF SEC 3020 ITEM HKTY1.1.1K, DBR 024257
				OMR3/4
Y4				ALL POS REF SEC 3020 ITEM DHKTY1.1.2K, DBR 024268
				FR2
T5				ALL JSC CONS REF SEC 3020 ITEM T44.1K, DBR 024313
H6				ALL MSFC CONS REF SEC 3020 ITEM H46.1K, DBR 024286
				LCC ESA RM 3R18
T7				ALL JSC CONS REF SEC 3020 ITEM T66.1K, DBR 517193

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 568741
ITEM NUMBER: KT142K

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

NOTE 1: DISCUSSION BETWEEN JSC, KSC, AND MSFC ABOUT THE PRE-LAUNCH STATUS OF CAMERAS, OBSERVATIONS MADE BY THE CAMERAS, AND COORDINATING THE RESULTS OF IMAGERY REVIEWS.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/09/06
RESPONSE TRACKING: Z0502-2 Z107-9

[PRD] DATABASE RECORD: 568742 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/14/06
INITIAL DATE: 12/16/02
ITEM NUMBER: TH142.1T DATE LAST CHANGED: 11/20/06
SECTION: 2750 TIME LAST CHANGED: 10:00:48

REQUESTER: JSC MSFC
TEST CODE: ALPHSE

ASSOCIATED DOC: 20007S 20014S 20017S 20037S
20044S
TRACKING NO. COMREV05 L04-6-4 L05-2-6 L06-9-1 R0407-1
R0502-8 R0505-2 R0609-4 R107-5
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: ETL ICE - OIS-322 (DEBRIS INTEGRATION)

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
1	7,14,17,	T		MCC FOR DISTRIBUTION

CONTINUED

[PRD] DATABASE RECORD: 568742
ITEM NUMBER: TH142.1T

	37,44		
2	7,14,17, 37,44	T	EXT TO B-NS/HOU TOWER II
3	7,14,17, 37,44	T	EXT TO MSFC

NOTE 1: DISCUSSION BETWEEN JSC, KSC, AND MSFC ABOUT THE PRE-LAUNCH STATUS OF CAMERAS, OBSERVATIONS MADE BY THE CAMERAS, AND COORDINATING THE RESULTS OF IMAGERY REVIEWS.

POC: MSFC/PHILIP CAUTHEN/256 544-4204
COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/14/06
RESPONSE TRACKING: Z0407-1 Z107-6

[PRD] DATABASE RECORD: 568743 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/14/06
INITIAL DATE: 12/11/02
ITEM NUMBER: H142.1.1H DATE LAST CHANGED: 11/20/06
SECTION: 2750 TIME LAST CHANGED: 10:01:11

REQUESTER: MSFC
TEST CODE: ALPHSE

ASSOCIATED DOC: 20007S 20014S 20017S 20037S 20044S
TRACKING NO. COMREV05 L05-2-6 L06-9-1 R0502-8 R0505-2 R0609-4
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: ETL ICE - OIS-322 (DEBRIS INTEGRATION)

RESPONSIBLE AGENCY: MSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION

CONTINUED

[PRD] DATABASE RECORD: 568743
ITEM NUMBER: H142.1.1H

| --- | --- | --- | --- | --- |
| 1 | 7,14,17, 37,44 | T | | HOSC FOR DIST. |

COMM CONTACT: SCOTT SCHUTZENHOFER/MPP71/256 544-8496

NOTE 1: DISCUSSION BETWEEN JSC, KSC, AND MSFC ABOUT THE PRE-LAUNCH STATUS OF CAMERAS, OBSERVATIONS MADE BY THE CAMERAS, AND COORDINATING THE RESULTS OF IMAGERY REVIEWS.

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/14/06
RESPONSE TRACKING: Z0505-1

[PRD] DATABASE RECORD: 574495 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/09/03
INITIAL DATE: 11/04/03
ITEM NUMBER: TH143HT DATE LAST CHANGED: 11/20/06
SECTION: 2750 TIME LAST CHANGED: 10:02:22

REQUESTER: JSC MSFC
TEST CODE: FULLTIME STSALL

ASSOCIATED DOC: 20007S 20017S
TRACKING NO. COMREV05 L03-11-1 L03-12-1 L04-2-2 R0311-1
R0312-2 R0402-3

1. DESCRIPTION: LSEAT COORD

RESPONSIBLE AGENCY: JSC

REF	CKT	ASSOC DOC	CAP	LOCATION
1	LSEAT COORD	7, 17	T	MCC DIST.
2	LSEAT COORD	7, 17	T	EXT TO MSFC

COMM CONTACT: JSC/KEN JONES/281 483-7671

CONTINUED

[PRD] DATABASE RECORD: 574495
ITEM NUMBER: TH143HT

NOTE: THE CIRCUIT WILL BE A "FULL PERIOD" FOR JSC AND MSFC.

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/09/03
RESPONSE TRACKING: Z0312-2

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/09/03
RESPONSE TRACKING: Z0312-2 Z0402-4

[PRD] DATABASE RECORD: 586877 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/05/06
INITIAL DATE: 05/05/06
ITEM NUMBER: H143.1H DATE LAST CHANGED: 05/15/06
SECTION: 2750 TIME LAST CHANGED: 10:22:07

REQUESTER: MSFC
TEST CODE: FULLTIME STSALL

ASSOCIATED DOC: 20007S 20017S
TRACKING NO. COMREV05

1. DESCRIPTION: LSEAT COORD

RESPONSIBLE AGENCY: MSFC

REF	CKT	ASSOC DOC	CAP	LOCATION
H1	LSEAT COORD	7, 17	T	EXT TO MSFC/ MIDDS ROOM

POC: MSFC/PHILIP CAUTHEN/256 544-4204
COMM CONTACT: MSFC/SCOTT SCHUTZENHOFER/256 544-8496

NOTE: THE CIRCUIT WILL BE A "FULL PERIOD" FOR JSC AND MSFC.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 586877
ITEM NUMBER: H143.1H

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/05/06

[PRD] DATABASE RECORD: 576115 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/14/06
INITIAL DATE: 03/19/04
ITEM NUMBER: TH144T DATE LAST CHANGED: 05/05/06
SECTION: 2750 TIME LAST CHANGED: 09:40:23

REQUESTER: JSC MSFC
TEST CODE: ALPHSE STSALL

ASSOCIATED DOC: 20007S 20014S 20026S 20027S
20028S 20044S
TRACKING NO. L04-10-1 L04-11-2 L04-3-3 L05-2-5 L06-2-2
L06-3-1 R0410-1 R0412-2 R0502-7 R0603-1

1. DESCRIPTION: INTEG TECH

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,26,27 28,44	T		JSC FOR EXT TO MSFC
T2	7,14,26,27, 28,44	T		MCC FOR DIST.
T3	7,14,26,27, 28,44	T		JSC FOR EXT TO MER

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/14/06

CONTINUED

[PRD] DATABASE RECORD: 576115
ITEM NUMBER: TH144T

RESPONSE TRACKING: Z0412-1

[PRD] DATABASE RECORD: 576116
DOCUMENT ID: LLS
ITEM NUMBER: H144.1H
SECTION: 2750

REQUIREMENT STATUS: APPROVED
APPROVAL DATE: 03/14/06
INITIAL DATE: 03/19/04
DATE LAST CHANGED: 11/20/06
TIME LAST CHANGED: 10:03:20

REQUESTER: MSFC
TEST CODE: ALPHSE STSALL

ASSOCIATED DOC: 20007S 20014S 20026S 20027S
20028S 20044S
TRACKING NO. COMREV05 L04-10-1 L04-11-2 L04-3-3 L06-2-2
R0410-1 R0412-2 R0603-1

1. DESCRIPTION: INTEG TECH - OIS-6008

RESPONSIBLE AGENCY: MSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
1	7,14,26,27, 28,44	T		ATK/THIOKOL BRIGHAM CITY, UTAH
2	7,14,26,27, 28,44	T		ROCKETDYNE CANOGA PARK, CA
3	7,14,26,27, 28,44	T		MICHOUD ASSEMBLY FACILITY (MAF) MICHOUD, LA
4	7,14,26,27, 28,44	T		PRATT WHITNEY WEST PALM BEACH, FL
5	7,14,26,27, 28,44	T		HONEYWELL CLEARWATER, FL
6	7,14,26,27, 28,44	T		MSFC/4203 HUNTSVILLE, AL

CONTINUED

[PRD] DATABASE RECORD: 576116
ITEM NUMBER: H144.1H

7	7,14,26,27,	T	ROCKETDYNE/RESEARCH PARK HUNTSVILLE, AL

POC: MSFC/EO60/PHILIP CAUTHEN/256 544-8496
COMM CONTACT: MSFC/MP71/SCOTT SCHUTZENHOFER/256 544-8496

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/15/06
RESPONSE TRACKING: Z0412-2

[PRD] DATABASE RECORD: 576118 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/19/04
INITIAL DATE: 03/19/04
ITEM NUMBER: KH145K DATE LAST CHANGED: 09/19/06
SECTION: 2750 TIME LAST CHANGED: 12:59:03

REQUESTER: KSC MSFC
SUBREQUESTER: KSC/PH-I
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20014S 20026S 20027S
20028S 20044S
TRACKING NO. COMREV05 L04-3-3

1. DESCRIPTION: SYSTEM ENGINEERING COORD - OIS-6007

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
K1	7,14,26,27, 28,44	T		CDSC FOR EXT TO MSFC FR2, CONSOLES A1 AND A3

POC: KSC/DEBBIE AWTONOMOW/321 861-3972
COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 576118
ITEM NUMBER: KH145K

SUBSUPPLIER: IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/19/04

[PRD] DATABASE RECORD: 576119 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/19/04
INITIAL DATE: 03/19/04
ITEM NUMBER: HT145.1H DATE LAST CHANGED: 11/20/06
SECTION: 2750 TIME LAST CHANGED: 10:03:56

REQUESTER: MSFC JSC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20014S 20026S 20027S
20028S 20044S
TRACKING NO. COMREV05 L04-3-3

1. DESCRIPTION: SYSTEM ENGINEERING COORD - OIS-6007

RESPONSIBLE AGENCY: MSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
1	7,14,26,27, 28,44	T		EXT TO JSC FOR DIST.
2	7,14,26,27, 28,44	T		ATK/THIOKOL BRIGHAM CITY, UTAH
3	7,14,26,27, 28.44	T		ROCKETDYNE CANOGA PARK, CA
4	7,14,26,27, 28,44	T		MICHOUD ASSEMBLY FACILITY (MAF) MICHOUD, LA
5	7,14,26,27, 28,44	T		PRATT WHITNEY WEST PALM BEACH, FL
6	7,14,26,27, 28,44	T		HONEYWELL CLEARWATER, FL

CONTINUED

[PRD] DATABASE RECORD: 576119
ITEM NUMBER: HT145.1H

7	7,14,26,27, 28,44	T	MSFC/BLDG. 4203 HUNTSVILLE, FL
8	7,14,26,27,	T	ROCKETDYNE/RESEARCH PARK HUNTSVILLE, AL

POC: MSFC/PHILIP CAUTHEN/256 544-4204
COMM CONTACT: MSFC/MP71/SCOTT SCHUTZENHOFER/256 544-8496

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/01/04

[PRD] DATABASE RECORD: 576120 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/19/04
INITIAL DATE: 03/19/04
ITEM NUMBER: T145.1.1T DATE LAST CHANGED: 05/01/06
SECTION: 2750 TIME LAST CHANGED: 10:50:26

REQUESTER: JSC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20014S 20026S 20027S
20028S 20044S
TRACKING NO. L04-3-3

1. DESCRIPTION: SYSTEM ENGINEERING COORD - OIS-6007

RESPONSIBLE AGENCY: JSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,26,27, 28,44	T		MCC FOR DIST.
T2	7,14,26,27, 28,44	T		EXT TO JSC MER

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 576120
ITEM NUMBER: T145.1.1T

POC: JSC/DV/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/19/04

[PRD] DATABASE RECORD: 579677 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/25/05
INITIAL DATE: 01/25/05
ITEM NUMBER: GHK146G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:28

REQUESTER: GSFC MSFC KSC
TEST CODE: FULLTIME STSALL WSSH
TRACKING NO. COMREV05 R0501-1

1. DESCRIPTION: GSFC/MSFC COORD (G/M COORD)

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
G1		T		GSFC LOCAL DISTRIBUTION
H2		T		EXTEND TO MSFC
G3		T		EXTEND TO KSC/CDSC
G4		T		EXTEND TO WSC/WSSH

COMM CONTACT: GSFC/AL DUANY/301 286-2721

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: WSC/WSGT WSMR WSTF
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/12/05
RESPONSE TRACKING: Z0505-3

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 586878 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/05/06
INITIAL DATE: 05/05/06
ITEM NUMBER: H146.1H DATE LAST CHANGED: 05/15/06
SECTION: 2750 TIME LAST CHANGED: 10:22:39

REQUESTER: MSFC
TEST CODE: FULLTIME STSALL
TRACKING NO. COMREV05

1. DESCRIPTION: GSFC/MSFC COORD (G/M COORD)

RESPONSIBLE AGENCY: MSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
H1		T		EXTEND TO MSFC FOR DIST.

POC: MSFC/PHILIP CAUTHEN/256 544-4204
COMM CONTACT: MSFC/SCOTT SCHUTZENHOFER/256 544-8496

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/05/06

[PRD] DATABASE RECORD: 580317 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/03/05
INITIAL DATE: 02/03/05
ITEM NUMBER: KG146.2K DATE LAST CHANGED: 05/02/06
SECTION: 2750 TIME LAST CHANGED: 09:07:10

REQUESTER: KSC GSFC
SUBREQUESTER: JSC
TEST CODE: FULLTIME STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. COMREV05 R0501-1

1. DESCRIPTION: GSFC/MSFC COORD (G/M COORD)

RESPONSIBLE AGENCY: KSC

CONTINUED

[PRD] DATABASE RECORD: 580317
ITEM NUMBER: KG146.2K

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
G1	27	T		EXTEND TO MILA

POC: MILA/MELISSA BLIZZARD/321 867-1068
COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/03/05

[PRD] DATABASE RECORD: 579737 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/28/05
INITIAL DATE: 01/28/05
ITEM NUMBER: G146.3G DATE LAST CHANGED: 04/04/07
SECTION: 2750 TIME LAST CHANGED: 07:13:36

REQUESTER: GSFC
SUBREQUESTER: GSFC JSC
TEST CODE: STSALL WSSH
TRACKING NO. COMREV05 R0501-1

1. DESCRIPTION: GSFC/MSFC COORD (G/M COORD)

RESPONSIBLE AGENCY: WSTF

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
G1		T		EXTEND TO WSSH OIS

POC: WSTF/ROBERT MITCHELL/505 524-5774
COMM CONTACT: WSTF/ZIGGY ZAPEN/505 524-5556

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 579737
ITEM NUMBER: G146.3G

SUBSUPPLIER: WSC/WSGT WSMR WSTF
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/12/05
RESPONSE TRACKING: Z0505-3

[PRD] DATABASE RECORD: 579857 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/15/05
INITIAL DATE: 02/23/05
ITEM NUMBER: KT147Z DATE LAST CHANGED: 04/04/07
SECTION: 2750 TIME LAST CHANGED: 07:14:31

REQUESTER: KSC JSC
SUBREQUESTER: JSC/MG KSC/PH-L
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S 25044S
TRACKING NO. COMREV05 R0501-1 R0501-1A R0504-8

1. DESCRIPTION: CRANE OPS (UHF 412.6500)

RESPONSIBLE AGENCY: WSTF

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1K	27	T	1	EXTEND TO WSSH OIS FOR DIST.

NOTE 1: THIS IS A SHARED CIRCUIT WITH LANDING FIELD 1.
CRANE OPS WILL ACTIVATE AT L+24 HOURS AND TEMINATES
AT SCA LIFTOFF.

POC: WSTF/ROBERT MITCHELL/505 524-5774

COMM CONTACT: WSTF/ZIGGY ZAPEN/505 524-5556

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL 505 524-5774

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 579857
ITEM NUMBER: KT147Z

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/15/05
RESPONSE TRACKING: Z0504-5

[PRD] DATABASE RECORD: 581358 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/05/05
INITIAL DATE: 04/05/05
ITEM NUMBER: KT148K DATE LAST CHANGED: 05/02/06
SECTION: 2750 TIME LAST CHANGED: 09:08:31

REQUESTER: KSC JSC
SUBREQUESTER: KSC/EA
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20017S 20026S 20028S
TRACKING NO. COMREV05 R0504-2

1. DESCRIPTION: INDEPENDENT TECHNICAL AUTHORITY COORD (ITA)
OIS-6020

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,17,26,28	T		CDSC FOR EXTENSION TO JSC
				OSR 1/3/4
Y2				ALL POS REF SEC 3020
				OMR 1/3/4
Y3				ALL POS REF SEC 3020
				FR 2
T4				ALL JSC CONS REF SEC 3020

CONTINUED

[PRD] DATABASE RECORD: 581358
ITEM NUMBER: KT148K

H5 ALL MSFC CONS REF SEC 3020

T6 ALL JSC CONS REF SEC 3020

POINT OF CONTACT: OSCAR TOLEDO/EA/321 867-1460
PAUL SHACK/EA42/281 483-1428
PAUL MUNAFO/DA01/256 544-5877

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-A KISC-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/05/05

[PRD] DATABASE RECORD: 581359 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/19/05
INITIAL DATE: 04/05/05
ITEM NUMBER: TH148.1T DATE LAST CHANGED: 11/20/06
SECTION: 2750 TIME LAST CHANGED: 10:04:54

REQUESTER: JSC MSFC
SUBREQUESTER: EA
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20017S 20026S 20028S
TRACKING NO. R0504-2

1. DESCRIPTION: INDEPENDENT TECHNICAL AUTHORITY COORD (ITA)
OIS-6020

RESPONSIBLE AGENCY: JSC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 581359
ITEM NUMBER: TH148.1T

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
1	7,17,26,28	T		EXT TO MER SHUTTLE
2	7,17,26,28	T		EXT TO SE&I CSR CONSOLES
2	7,17,26,28	T		EXT TO MSFC

POC: OSCAR TOLEDO/EA/321-867-1460
PAUL SHACK/EA42/281-483-1428
PAUL MUNAFO/DA01/256-544-5877

COMM CONTACT: JSC/KEN JONES/281 483-7671

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/19/05
RESPONSE TRACKING: Z0505-2

[PRD] DATABASE RECORD: 581360 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/05/05
INITIAL DATE: 04/05/05
ITEM NUMBER: H148.1.1H DATE LAST CHANGED: 11/20/06
SECTION: 2750 TIME LAST CHANGED: 10:05:31

REQUESTER: MSFC
SUBREQUESTER: JSC KSC KSC/EA
TEST CODE:

ASSOCIATED DOC: 20007S 20017S 20026S 20028S
TRACKING NO. COMREV05 R0504-2

1. DESCRIPTION: INDEPENDENT TECHNICAL AUTHORITY COORD (ITA)
OIS-6020

RESPONSIBLE AGENCY: MSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
1	7,17,26,28	T		MSFC, FOR DIST.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 581360
ITEM NUMBER: H148.1.1H

POC: OSCAR TOLEDO/EA/321-867-1460
PAUL SHACK/EA42/281/483/1428
PAUL MUNAFO/DA01/256-544-5877

COMM CONTACT: MSFC/SCOTT SCHUTZENHOFER/256 544-8496

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/05/05
RESPONSE TRACKING: Z0504-2

[PRD] DATABASE RECORD: 581638 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/11/05
INITIAL DATE: 04/11/05
ITEM NUMBER: THK149T DATE LAST CHANGED: 11/20/06
SECTION: 2750 TIME LAST CHANGED: 10:06:29

REQUESTER: JSC MSFC KSC
SUBREQUESTER: KSC/PH-L
TEST CODE: ALPHSE LAEORB PREFLT STSALL

ASSOCIATED DOC: 20007S 20014S 20017S 20037S
20044S
TRACKING NO. L05-4-1 R0505-1

1. DESCRIPTION: FLIGHT SOFTWARE (FSW) MANAGEMENT

RESPONSIBLE AGENCY: JSC

REF	CAP	NOTE	TERMINATION LOCATION
1	T/M	1	EXTEND TO MER/SE&I
2	T/M	1	EXTEND TO KSC/CDSC
3	T/M	1	EXTEND TO MSFC/HOSC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 581638
ITEM NUMBER: THK149T

COMM CONTACT: JSC/KEN JONES/281 483-7671

NOTE 1: THIS LOOP WILL BE USED FOR SOFTWARE MANAGEMENT LEVEL DISCUSSIONS.

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/11/05

[PRD] DATABASE RECORD: 581641 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/11/05
INITIAL DATE: 04/11/05
ITEM NUMBER: K149.1K DATE LAST CHANGED: 05/02/06
SECTION: 2750 TIME LAST CHANGED: 09:16:43

REQUESTER: KSC
SUBREQUESTER: KSC/MK-SIO KSC/PH-L
TEST CODE: ALPHSE LAEORB PREFLT STSALL

ASSOCIATED DOC: 20007S 20014S 20017S 20037S 20044S
TRACKING NO. L05-4-1 R0505-1

1. DESCRIPTION: FLIGHT SOFTWARE (FSW) MANAGEMENT

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17	T		CDSC FOR DIST.
				OSR1/3/4
Y2			1	ALL POS REF. SECTION 3020 ITEM HKTY1.1.1K, DBR 024257
				OSR1/3/4

CONTINUED

[PRD] DATABASE RECORD: 581641
ITEM NUMBER: K149.1K

Y3	1	ALL POS REF. SECTION 3020 ITEM DHKTY1.1.2K, DBR 024268
		FR2

T4	1	ALL JSC CONS REF. SECTION 3020 ITEM T44.1K, DBR 024313

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8450

NOTE 1: THIS LOOP WILL BE USED FOR SOFTWARE MANAGEMENT LEVEL DISCUSSIONS.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/11/05

[PRD] DATABASE RECORD: 581643 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/11/05
INITIAL DATE: 04/11/05
ITEM NUMBER: H149.2H DATE LAST CHANGED: 11/20/06
SECTION: 2750 TIME LAST CHANGED: 10:07:06

REQUESTER: MSFC
TEST CODE: ALPHSE LAEORB PREFLT STSALL

ASSOCIATED DOC: 20007S 20014S 20017S 20037S 20044S
TRACKING NO. COMREV05 L05-4-1 R0505-1

1. DESCRIPTION: FLIGHT SOFTWARE (FSW) MANAGEMENT

RESPONSIBLE AGENCY: MSFC

REF	CAP	NOTE	TERMINATION LOCATION
1	T/M	1	EXTEND TO HOSC

CONTINUED

[PRD] DATABASE RECORD: 581643
ITEM NUMBER: H149.2H

POC: MSFC/PHILIP CAUTHEN/256 544-4204
COMM CONTACT: MSFC/SCOTT SCHUTZENHOFER/256 544-8496

NOTE 1: THIS LOOP WILL BE USED FOR SOFTWARE MANAGEMENT LEVEL DISCUSSIONS.

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/11/05
RESPONSE TRACKING: Z0505-1

[PRD] DATABASE RECORD: 581657 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/12/05
INITIAL DATE: 04/12/05
ITEM NUMBER: TK150T DATE LAST CHANGED: 05/02/06
SECTION: 2750 TIME LAST CHANGED: 09:19:49

REQUESTER: JSC KSC
SUBREQUESTER: KSC/PH-L
TEST CODE: ALPHSE LAEORB PREFLT STSALL

ASSOCIATED DOC: 20007S 20014S 20017S 20037S
20044S
TRACKING NO. L05-4-1 R0505-1

1. DESCRIPTION: MER COORD (OIS 6018)

RESPONSIBLE AGENCY: JSC

REF	CAP	NOTE	TERMINATION LOCATION
T1	T/M	1	EXTEND TO MER/SE&I
K2	T/M	1	EXTEND TO KSC/CDSC

COMM CONTACT: JSC/KEN JONES/281 483-7671

NOTE 1: Discussions between Orbiter Project Management located at KSC

CONTINUED

[PRD] DATABASE RECORD: 581657
ITEM NUMBER: TK150T

and the MER Management team located at JSC.

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/12/05

[PRD] DATABASE RECORD: 581662 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/12/05
INITIAL DATE: 04/12/05
ITEM NUMBER: K150.1K DATE LAST CHANGED: 05/02/06
SECTION: 2750 TIME LAST CHANGED: 09:31:16

REQUESTER: KSC
SUBREQUESTER: KSC/MK-SIO KSC/PH-L
TEST CODE: ALPHSE LAEORB PREFLT STSALL

ASSOCIATED DOC: 20007S 20014S 20017S 20037S 20044S
TRACKING NO. L05-4-1 R0505-1

1. DESCRIPTION: MER COORD (OIS 6018)

RESPONSIBLE AGENCY: KSC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7,14,17, 37,44	T		CDSC FOR DIST
				OSR1/3/4
Y2				ALL POS REF. SECTION 3020 ITEM HKTY1.1.1K, DBR 024257
				OMR1/3/4
Y3				ALL POS REF. SECTION 3020 ITEM DHKTY1.1.2K, DBR 024268

CONTINUED

[PRD] DATABASE RECORD: 581662
ITEM NUMBER: K150.1K

	FR2
Y4	ALL JSC CONS REF. SECTION 3020 ITEM T44.1K, DBR 024313

COMM CONTACT: MONIQUE MCLAMB/321 867-8540

NOTE 1: DISCUSSIONS BETWEEN ORBITER PROJECT MANAGEMENT LOCATED AT KSC AND THE MER MANAGEMENT TEAM LOCATED AT JSC.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/12/05

[PRD] DATABASE RECORD: 581678 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/12/05
INITIAL DATE: 04/12/05
ITEM NUMBER: THK151T DATE LAST CHANGED: 11/20/06
SECTION: 2750 TIME LAST CHANGED: 10:07:29

REQUESTER: JSC MSFC KSC
SUBREQUESTER: KSC/PH-L
TEST CODE: ALPHSE LAEORB PREFLT STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. L05-4-1 R0505-1

1. DESCRIPTION: RADAR SYSTEM

RESPONSIBLE AGENCY: JSC

REF	CAP	NOTE	TERMINATION LOCATION
1	T/M	1	EXTEND TO MER/SE&I
2	T/M	1	EXTEND TO KSC/CDSC
3	T/M	1	EXTEND TO MSFC/HOSC

CONTINUED

[PRD] DATABASE RECORD: 581678
ITEM NUMBER: THK151T

COMM CONTACT: JSC/KEN JONES/281 483-7671

NOTE 1: THIS LOOP WILL BE USED FOR CONNECTING JSC, KSC, MSFC, AND THE RADAR SITES, ROCC AND MILA.

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/12/05

[PRD] DATABASE RECORD: 581679 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/09/06
INITIAL DATE: 04/12/05
ITEM NUMBER: KEG151.1K DATE LAST CHANGED: 11/09/06
SECTION: 2750 TIME LAST CHANGED: 12:03:16

REQUESTER: KSC ER GSFC
SUBREQUESTER: KSC/PH-L
TEST CODE: ALPHSE LAEORB PREFLT STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 L05-4-1 R0505-1 R0611-2

1. DESCRIPTION: RADAR SYSTEM (OIS-6017)

RESPONSIBLE AGENCY: KSC

REF	CAP	NOTE	TERMINATION LOCATION
1	T/M	1	CDSC FOR DIST
2	T/M	1	EXTEND TO ROCC
3	T/M	1	EXTEND TO MILA
4	T/M	1	EXTEND TO NASA DEBRIS RADAR SITE
			OSR3/4
5		1	ALL POS REF, SECTION 3020 ITEM HKTY1.1.1K, DBR 024257

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 581679
ITEM NUMBER: KEG151.1K

		OMR3/4
6	1	ALL POS REF. SECTION 3020 ITEM DHKTY1.1.2K, DBR 024268
		FR2
7	1	ALL JSC CONS REF. SECTION 3020 ITEM T44.1K, DBR 024313

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

NOTE 1: THIS LOOP WILL BE USED FOR CONNECTING JSC, KSC, MSFC, AND THE RADAR SITES, ROCC AND MILA.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/09/06

[PRD] DATABASE RECORD: 581680
DOCUMENT ID: LLS
ITEM NUMBER: H151.2H
SECTION: 2750

REQUIREMENT STATUS: APPROVED
APPROVAL DATE: 04/12/05
INITIAL DATE: 04/12/05
DATE LAST CHANGED: 11/20/06
TIME LAST CHANGED: 10:07:51

REQUESTER: MSFC
TEST CODE: ALPHSE LAEORB PREFLT STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 L05-4-1 R0505-1

1. DESCRIPTION: RADAR SYSTEM

RESPONSIBLE AGENCY: MSFC

REF	CAP	NOTE	TERMINATION LOCATION

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 581680
ITEM NUMBER: H151.2H

1	T/M	1	EXTEND TO HOSC

POC: MSFC/PHILIP CAUTHEN/256 544-4204
COMM CONTACT: MSFC/SCOTT SCHUTZENHOFER/256 544-8496

NOTE 1: THIS LOOP WILL BE USED FOR CONNECTING JSC, KSC, MSFC, AND THE RADAR SITES, ROCC AND MILA.

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/12/05
RESPONSE TRACKING: Z0505-1

[PRD] DATABASE RECORD: 581681 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/12/05
INITIAL DATE: 04/12/05
ITEM NUMBER: THK152T DATE LAST CHANGED: 11/20/06
SECTION: 2750 TIME LAST CHANGED: 10:15:00

REQUESTER: JSC MSFC KSC
SUBREQUESTER: KSC/PH-L
TEST CODE: ALPHSE LAEORB PREFLT STSALL

ASSOCIATED DOC: 20007S 20014S 20017S 20037S 20044S
TRACKING NO. L05-4-1 R0505-1

1. DESCRIPTION: SAFE OPS

RESPONSIBLE AGENCY: JSC

REF	CAP	NOTE	TERMINATION LOCATION
1	T/M	1	EXTEND TO MER/SE&I
2	T/M	1	EXTEND TO KSC/CDSC
3	T/M	1	EXTEND TO MSFC/HOSC

COMM CONTACT: JSC/KEN JONES/281 483-7671

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 581681
ITEM NUMBER: THK152T

NOTE 1: THIS LOOP WILL BE USED FOR WORKING LEVEL TECHNICAL DISCUSSIONS BETWEEN JSC, KSC, AND MSFC S&MA ORGANIZATIONS.

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/12/05

[PRD] DATABASE RECORD: 581682 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/12/05
INITIAL DATE: 04/12/05
ITEM NUMBER: K152.1K DATE LAST CHANGED: 05/02/06
SECTION: 2750 TIME LAST CHANGED: 09:38:25

REQUESTER: KSC
SUBREQUESTER: KSC/MK-SIO KSC/PH-L
TEST CODE: ALPHSE LAEORB PREFLT STSALL

ASSOCIATED DOC: 20007S 20014S 20017S 20037S 20044S
TRACKING NO. L05-4-1 R0505-1

1. DESCRIPTION: SAFE OPS

RESPONSIBLE AGENCY: KSC

REF	CAP	NOTE	TERMINATION LOCATION
K1	T	1	CDSC FOR DIST
			OSR1/3/4
Y2		1	ALL POS REF. SECTION 3020 ITEM HKTY1.1.1K, DBR 024257
			OMR1/3/4
Y3		1	ALL POS REF. SECTION 3020

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 581682
ITEM NUMBER: K152.1K

ITEM DHKTY1.1.2K, DBR 024268

		FR2
Y4	1	ALL JSC CONS REF. SECTION 3020 ITEM T44.1K, DBR 024313

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

NOTE 1: THIS LOOP WILL BE USED FOR WORKING LEVEL TECHNICAL DISCUSSIONS BETWEEN JSC, KSC, AND MSFC S&MA ORGANIZATIONS.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/12/05

[PRD] DATABASE RECORD: 581683 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/12/05
INITIAL DATE: 04/12/05
ITEM NUMBER: H152.2H DATE LAST CHANGED: 05/02/06
SECTION: 2750 TIME LAST CHANGED: 09:39:29

REQUESTER: MSFC
TEST CODE: ALPHSE LAEORB PREFLT STSALL

ASSOCIATED DOC: 20007S 20014S 20017S 20037S 20044S
TRACKING NO. COMREV05 L05-4-1 R0505-1

1. DESCRIPTION: SAFE OPS

RESPONSIBLE AGENCY: MSFC

REF	CAP	NOTE	TERMINATION LOCATION
H1	T/M	1	EXTEND TO HOSC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 581683
ITEM NUMBER: H152.2H

POC: MSFC/PHILIP CAUTHEN/256 544-4204
COMM CONTACT: MSFC/SCOTT SCHUTZENHOFER/256 544-8496

NOTE 1: THIS LOOP WILL BE USED FOR WORKING LEVEL TECHNICAL DISCUSSIONS BETWEEN JSC, KSC, AND MSFC S&MA ORGANIZATIONS.

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/12/05
RESPONSE TRACKING: Z0505-1

[PRD] DATABASE RECORD: 581684 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/12/05
INITIAL DATE: 04/12/05
ITEM NUMBER: THK153T DATE LAST CHANGED: 05/02/06
SECTION: 2750 TIME LAST CHANGED: 09:40:58

REQUESTER: JSC MSFC KSC
SUBREQUESTER: KSC/PH-L
TEST CODE: ALPHSE LAEORB PREFLT STSALL

ASSOCIATED DOC: 20007S 20014S 20017S 20037S
20044S
TRACKING NO. L05-4-1 R0505-1

1. DESCRIPTION: USA INTEGRATION

RESPONSIBLE AGENCY: JSC

REF	CAP	NOTE	TERMINATION LOCATION
T1	T/M	1	EXTEND TO MER/SE&I
K2	T/M	1	EXTEND TO KSC/CDSC
H3	T/M	1	EXTEND TO MSFC/HOSC

COMM CONTACT: JSC/KEN JONES/281 483-7671

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 581684
ITEM NUMBER: THK153T

NOTE 1: THIS LOOP WILL BE USED BY THE USA CONTRACTOR AT JSC, KSC, AND MSFC FOR USA CONTRACTOR COORDINATION OF INTEGRATION ISSUES DURING REAL-TIME MISSION SUPPORT TO THE SYSTEMS ENGINEERING AND INTEGRATION OFFICE.

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/12/05

[PRD] DATABASE RECORD: 581685 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/12/05
INITIAL DATE: 04/12/05
ITEM NUMBER: K153.1K DATE LAST CHANGED: 05/02/06
SECTION: 2750 TIME LAST CHANGED: 09:42:29

REQUESTER: KSC
SUBREQUESTER: FR2 KSC/MK-SIO KSC/PH-L OMR1/3/4 OSR1/3/4
TEST CODE: ALPHSE LAEORB PREFLT STSALL

ASSOCIATED DOC: 20007S 20014S 20017S 20037S 20044S
TRACKING NO. L05-4-1 R0505-1

1. DESCRIPTION: USA INTEGRATION

RESPONSIBLE AGENCY: KSC

REF	CAP	NOTE	TERMINATION LOCATION
K1	T	1	CDSC FOR DIST
			OSR1/3/4
Y2		1	ALL POS REF SECTION 3020 ITEM HKTY1.1.1K, DBR 024257
			OMR1/3/4

CONTINUED

[PRD] DATABASE RECORD: 581685
ITEM NUMBER: K153.1K

Y3	1	ALL POS REF. SECTION 3020 ITEM DHKTY1.1.2K, DBR 024268
		FR2 ---------------------------
T4		ALL JSC CONS REF SECTION 3020 ITEM T44.1K. DBR 024313

NOTE 1: THIS LOOP WILL BE USED BY THE USA CONTRACTOR AT JSC, KSC, AND MSFC FOR USA CONTRACTOR COORDINATION OF INTEGRATION ISSUES DURING REAL-TIME SUPPORT TO THE SYSTEMS ENGINEERING AND INTEGRATION OFFICE.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/12/05

[PRD] DATABASE RECORD: 581686 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/12/05
INITIAL DATE: 04/12/05
ITEM NUMBER: H153.2H DATE LAST CHANGED: 05/02/06
SECTION: 2750 TIME LAST CHANGED: 09:43:31

REQUESTER: MSFC
TEST CODE: ALPHSE LAEORB PREFLT STSALL

ASSOCIATED DOC: 20007S 20014S 20017S 20037S 20044S
TRACKING NO. COMREV05 L05-4-1 R0505-1

1. DESCRIPTION: USA INTEGRATION

RESPONSIBLE AGENCY: MSFC

REF	CAP	NOTE	TERMINATION LOCATION
H1	T/M	1	EXTEND TO HOSC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 581686
ITEM NUMBER: H153.2H

POC: MSFC/PHILIP CAUTHEN/256 544-4204
COMM CONTACT: MSFC/SCOTT SCHUTZENHOFER/256 544-8496

NOTE 1: THIS LOOP WILL BE USED BY THE USA CONTRACTOR AT JSC, KSC, AND MSFC FOR USA CONTRACTOR COORDINATION OF INTEGRATION ISSUES DURING REAL-TIME MISSION SUPPORT TO THE SYSTEMS ENGINEERING AND INTEGRATION OFFICE.

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/12/05
RESPONSE TRACKING: Z0505-1

[PRD] DATABASE RECORD: 583418 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/22/05
INITIAL DATE: 06/16/05
ITEM NUMBER: T154GZ DATE LAST CHANGED: 04/04/07
SECTION: 2750 TIME LAST CHANGED: 07:27:28

REQUESTER: JSC
SUBREQUESTER: JSC/DV
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 L05-6-1 L05-7-2 L114-4 R0506-2

1. DESCRIPTION: WSSH DELAY VERIFY-1

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7	T		EXT TO JSC VIA GSFC

TECHNICAL CONTACT: WSTF/ZIGGY ZAPEN/505 524-5556

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 583418
ITEM NUMBER: T154GZ

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/01/05
RESPONSE TRACKING: Z0506-2 Z0508-1

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/01/06

[PRD] DATABASE RECORD: 585397 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/03/05
INITIAL DATE: 11/03/05
ITEM NUMBER: T154.1Z DATE LAST CHANGED: 04/04/07
SECTION: 2750 TIME LAST CHANGED: 07:27:53

REQUESTER: JSC
SUBREQUESTER: JSC/DV
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05

1. DESCRIPTION: WSSH DELAY VERIFY-1

RESPONSIBLE AGENCY: WSTF

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
Z1	7	T		EXTEND TO WSC/STGT

TECHNICAL CONTACT: WSTF/ZIGGY ZAPEN/505 524-5556

CONTINUED

[PRD] DATABASE RECORD: 585397
ITEM NUMBER: T154.1Z

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/03/05

[PRD] DATABASE RECORD: 583419 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/22/05
INITIAL DATE: 06/16/05
ITEM NUMBER: T155GZ DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:29

REQUESTER: JSC
SUBREQUESTER: JSC/DV
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. L05-6-1 L05-7-2 L114-4 R0506-2

1. DESCRIPTION: WSSH DELAY VERIFY-2

RESPONSIBLE AGENCY: GSFC

REF	ASSOC DOC	CAP	NOTE	TERMINATION LOCATION
T1	7	T		EXT TO JSC
T2	7	T		EXT TO WSSH/WSC/STGT

COMM CONTACT: GSFC/AL DUANY/301 286-2721

NOTE: BACKFEED OF WSSH UPLINK A/G UHF VOICE FOR ECHO ELIMINATION.

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/01/05
RESPONSE TRACKING: Z0506-2 Z0508-1

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 583419
ITEM NUMBER: T155GZ

RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/01/06

[PRD] DATABASE RECORD: 586037 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/09/07
INITIAL DATE: 02/03/06
ITEM NUMBER: THK156T DATE LAST CHANGED: 02/09/07
SECTION: 2750 TIME LAST CHANGED: 09:10:32

REQUESTER: JSC MSFC KSC
TEST CODE: ALPHSE LANDNG STSALL

ASSOCIATED DOC: 20007S 20028S
TRACKING NO. L06-2-1 L06-9-1A L07-2-1 R0609-5 R0702-3

1. DESCRIPTION: SEI COORD

RESPONSIBLE AGENCY: JSC

REF:	CAP	TERMINATION LOCATION	NOTE
T1	T/M	MCC DISTRIBUTION	1,3
T2	T/M	EXTEND TO MSFC	1,3
T3	T/M	EXTEND TO KSC CD&SC	1,2,3

COMM. CONTACT: JSC/KEN JONES/281 483-7671

NOTE: 1. THIS LOOP WILL BE USED DURING SSP SIMULATIONS AND SHUTTLE MISSION OPERATIONS TO SUPPORT ELEMENT INTEGRATION AND SYSTEM SAFETY FUNCTIONS OF THE SSP SYSTEMS ENGINEERING AND INTEGRATION OFFICE.

2. THE ELEMENT INTEGRATION AND SYSTEM SAFETY GROUP IS RESPONSIBLE FOR COORDINATION AND RESOLUTION OF INTEGRATED VEHICLE RISK AND INTER-ELEMENT ISSUES SUCH AS INTEGRATED HAZARD CONTROLS, INTERFACE CONTROL ISSUES, AND PAD TO VEHICLE ISSUES SUCH AS UMBILICAL OPERATIONS.

3. THIS LOOP WILL BE AVAILABLE TO THE SE&I MANAGEMENT.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 586037
ITEM NUMBER: THK156T

PATCHABLE ON REQUEST TO MCC/OIS PATCH 1-7, PER DBR 295559.

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)
RESPONDER: KEN JONES/281 483-7671

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/09/07

[PRD] DATABASE RECORD: 586038 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/09/07
INITIAL DATE: 02/03/06
ITEM NUMBER: H156.1H DATE LAST CHANGED: 02/13/07
SECTION: 2750 TIME LAST CHANGED: 09:18:46

REQUESTER: MSFC
SUBREQUESTER: JSC
TEST CODE: ALPHSE LANDNG STSALL

ASSOCIATED DOC: 20007S 20028S
TRACKING NO. L06-2-1 L07-2-1 R0702-3

1. DESCRIPTION: SEI COORD

RESPONSIBLE AGENCY: MSFC

REF:	CAP	TERMINATION LOCATION	NOTE
T1	T/M	EXTEND TO HOSC	1,2,3

POC: MSFC/PHILIP CAUTHEN/256 544-4204
COMM CONTACT: MSFC/SCOTT SCHUTZENHOFER/256 544-8496

NOTE: 1. THIS LOOP WILL BE USED DURING SSP SIMULATIONS AND SHUTTLE MISSION OPERATIONS TO SUPPORT ELEMENT INTEGRATION AND SYSTEM SAFETY FUNCTIONS OF THE SSP SYSTEMS ENGINEERING AND INTEGRATION OFFICE.

2. THE ELEMENT INTEGRATION AND SYSTEM SAFETY GROUP IS RESPONSIBLE FOR COORDINATION AND RESOLUTION OF INTEGRATED

CONTINUED

[PRD] DATABASE RECORD: 586038
ITEM NUMBER: H156.1H

VEHICLE RISK AND INTER-ELEMENT ISSUES SUCH AS INTEGRATED HAZARD CONTROLS, INTERFACE CONTROL ISSUES, AND PAD TO VEHICLE ISSUES SUCH AS UMBILICAL OPERATIONS.

3. THIS LOOP WILL BE AVAILABLE TO THE SE&I MANAGEMENT.

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/13/07
RESPONSE TRACKING: Z0602-1

[PRD] DATABASE RECORD: 586039 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/09/07
INITIAL DATE: 02/03/06
ITEM NUMBER: K156.2K DATE LAST CHANGED: 02/12/07
SECTION: 2750 TIME LAST CHANGED: 07:30:32

REQUESTER: KSC
SUBREQUESTER: JSC
TEST CODE: ALPHSE LANDNG STSALL

ASSOCIATED DOC: 20007S 20028S
TRACKING NO. L06-2-1 L07-2-1 R0702-3

1. DESCRIPTION: SEI COORD

RESPONSIBLE AGENCY: KSC

REF:	CAP	TERMINATION LOCATION	NOTE
T1	T/M	FR2, CONSOLES 0240A3, 0223A1, 023A2, 023A3 FR2 OSR, CONSOLES A9-A-18	1,2,3

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

NOTE: 1. THIS LOOP WILL BE USED DURING SSP SIMULATIONS AND SHUTTLE

CONTINUED

[PRD] DATABASE RECORD: 586039
ITEM NUMBER: K156.2K

MISSION OPERATIONS TO SUPPORT ELEMENT INTEGRATION AND SYSTEM SAFETY FUNCTIONS OF THE SSP SYSTEMS ENGINEERING AND INTEGRATION OFFICE.

2. THE ELEMENT INTEGRATION AND SYSTEM SAFETY GROUP IS RESPONSIBLE FOR COORDINATION AND RESOLUTION OF INTEGRATED VEHICLE RISK AND INTER-ELEMENT ISSUES SUCH AS INTEGRATED HAZARD CONTROLS, INTERFACE CONTROL ISSUES, AND PAD TO VEHICLE ISSUES SUCH AS UMBILICAL OPERATIONS.

3. THIS LOOP WILL BE AVAILABLE TO THE SE&I MANAGEMENT.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/09/07

[PRD] DATABASE RECORD: 587757 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/23/06
INITIAL DATE: 06/23/06
ITEM NUMBER: T229X DATE LAST CHANGED: 03/20/07
SECTION: 2750 TIME LAST CHANGED: 13:14:02

REQUESTER: JSC
TEST CODE: LANDNG STSALL

ASSOCIATED DOC: 20007S 20026S
TRACKING NO. L06-6-5 LSR06-6-5

1. DESCRIPTION: UPLINK S-BAND/UHF DELAY MEASUREMET CAPABILITY FOR LANDING AT EAFB

JSC MUST SEND A FEED OF A/G-1 TO DFRC AS A DELAY VERIFY CIRCUIT AND DFRC

MUST TURN A FEED OF BOTH THE A/G-1 AND THE OPERATIONAL UHF VOICE CIRCUITS, VIA TWO IDENTICALLY ROUTED LONGLINES WITH E & M SIGNALING, TO JSC FOR DELAY CORRECTION.

NOTE: THIS IS TO KEEP THE UHF AND S-BAND IN SYNC (NO ECHO).

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 587757
ITEM NUMBER: T229X

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/29/06

[PRD] DATABASE RECORD: 588918 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/17/06
INITIAL DATE: 08/17/06
ITEM NUMBER: T230EK DATE LAST CHANGED: 11/14/06
SECTION: 2750 TIME LAST CHANGED: 07:38:14

REQUESTER: JSC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. L06-8-2 R0609-2

1. DESCRIPTION: VOICE CIRCUITS FOR NASA ASCENT DEBRIS RADARS

THE FOLLOWING VOICE CIRCUITS ARE REQUIRED IN SUPPORT OF THE NASA ASCENT DEBRIS RADARS:

REF	TYPE OF SERVICE	FROM	TO	REMARKS
1	IPC NET	CCAFS XY BLDG	KSC CDSC FOR DISTRIBUTION TO NDRC-1 AT NCAR	
2	RADAR SYSTEMS NET	KSC CDSC	CCAFS XY BLDG	
3	RADAR SYSTEMS NET	CCAFS XY BLDG	LIBERTY STAR AND/OR FREEDOM STAR (VIA CLS DIAL-IN)	

POINT OF CONTACT: JSC/MS/TONY GRIFFITH/281 244-581
ER/1 ROPS/DOUR/MICHAEL GAWEL/321 853-8118

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 588918
ITEM NUMBER: T230EK

RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/13/06

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/17/06

[PRD] DATABASE RECORD: 589337 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/15/06
INITIAL DATE: 09/15/06
ITEM NUMBER: T231G DATE LAST CHANGED: 11/16/06
SECTION: 2750 TIME LAST CHANGED: 07:13:29

REQUESTER: JSC
TEST CODE: DFRC MILA PDL STSALL
WLPS

ASSOCIATED DOC: 20028S
TRACKING NO. R0609-7

1. DESCRIPTION: BACKUP AIR-TO-GROUND UHF

RESPONSIBLE AGENCY: GSFC/GN

REF	CAP	NOTE	TERMINATION LOCATION
T1	T/M		EXTEND TO JSC
T2	T/M	1,2	EXTEND TO WSC/WSSH
T3	T/M	2	EXTEND TO KSC/MILA
T4	T/M	2	EXTEND TO WLPS
T5	T/M	2	EXTEND TO GSFC LOCAL DIST

COMM CONTACT: AL DUANY/301 286-2721

NOTE 1. WHEN REQUIRED THE LOCAL WSSH CHANNEL WILL BE RELEASED FOR A LOCAL MEDICAL CONFERENCE (EMS COORD). THIS RECONFIGURATION WILL NOT AFFECT THE CHANNEL CONFIGURATION OF A/G UHF BACKUP. REF. FLT SECTION 2730, DBR 530528.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 589337
ITEM NUMBER: T231G

2. WILL BE CONFIGURED IN TALK MODE WHEN REQUESTED BY JSC.

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/21/06

[PRD] DATABASE RECORD: 589338
DOCUMENT ID: LLS
ITEM NUMBER: T231.1Z
SECTION: 2750

REQUIREMENT STATUS: APPROVED
APPROVAL DATE: 09/15/06
INITIAL DATE: 09/15/06
DATE LAST CHANGED: 10/31/06
TIME LAST CHANGED: 10:48:06

REQUESTER: JSC
TEST CODE: STSALL

ASSOCIATED DOC: 20027S
TRACKING NO. R0609-7

1. DESCRIPTION: BACKUP AIR-TO-GROUND UHF

RESPONSIBLE AGENCY: WSTF

REF	CAP	NOTE	TERMINATION LOCATION
T1	T/M	1,2	EXTEND LOCAL DIST

POC: WSTF/ROBERT MITCHELL/505 524-5774
COMM CONTACT: WSTF/SCOTT SEILER/505 524-5124

NOTE: 1. LOCAL WSSH CHANNEL 15 WILL BE RELEASED IN THE EVENT OF A WSSH LANDING FOR RECONFIGURATION TO EMS COORD. CHANNEL WILL BE RETURNED TO OPERATIONS AS REQUIRED BACKUP IN THE EVENT OF A PRIME A/G UHF CHANNEL FAILURE. THIS RECONFIGURATION WILL NOT AFFECT THE CHANNEL CONFIGURATION OF THE A/G UHF BACKUP CONFERENCE.
2. WILL BE CONFIGURED IN TALK MODE WHEN REQUESTED BY JSC.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 589338
ITEM NUMBER: T231.1Z

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/15/06

[PRD] DATABASE RECORD: 589339 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/15/06
INITIAL DATE: 09/15/06
ITEM NUMBER: T231.2K DATE LAST CHANGED: 11/27/06
SECTION: 2750 TIME LAST CHANGED: 10:21:29

REQUESTER: JSC
TEST CODE: MILA STSALL

ASSOCIATED DOC: 20028S
TRACKING NO. R0609-7

1. DESCRIPTION: BACKUP AIR-TO-GROUND UHF

RESPONSIBLE AGENCY: KSC/CDSC

REF	CAP	NOTE	TERMINATION LOCATION
T1	T/M	1	EXTEND TO MILA

COMM CONTACT: GSFC/AL DUANY/301 286-2721
KSC/MONIQUE MCLAMB/321 867-8540

NOTE: 1. WILL BE CONFIGURED IN TALK MODE WHEN REQUESTED BY JSC.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/15/06

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2752 - POINT-TO-POINT TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 21358 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/22/06
INITIAL DATE: 05/01/90
ITEM NUMBER: K5EK DATE LAST CHANGED: 06/01/06
SECTION: 2752 TIME LAST CHANGED: 10:38:31

REQUESTER: KSC
SUBREQUESTER: I-IT-D2-B KICS-105
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 KING2001 L3122 MK98 R109-43
PRIORITY: REQUIRED
RATIONALE: POINT TO POINT FROM CD&SC COMM. CONTROL TO ETR'S COMM. CONTROL CENTER FOR MAINTENANCE COORDINATION. BACKUP - MISSION COMM. COORDINATOR.

1. DESCRIPTION: CDSC/CCAFS - COMM MAINT COORDINATION (HOT DIAL)

CKT NO.	FROM	TO	REMARKS
826-0502	COMM CONTROL CKT NO. 9012 CH 11 KSC 05.02 ROOM 133 (7-4141)	ER COMM CONT.	MAINT COORD

TECH CONTACT: KSC/KICS-306/ROBERT SCHNEIDER/321 867-8565
ER/MIKE GAWEL/321 853-8118

NOTE: ER CKT # IS 2GP1348

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/01/06
RESPONSE TRACKING: Z3147

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105 KICS-306
KSC-CSR/SMI

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/22/06
RESPONSE TRACKING: Z3147

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2752 - POINT-TO-POINT TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 21358
ITEM NUMBER: K5EK

[PRD] DATABASE RECORD: 21359 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/22/06
INITIAL DATE: 05/01/90
ITEM NUMBER: K6EK DATE LAST CHANGED: 06/01/06
SECTION: 2752 TIME LAST CHANGED: 10:38:56

REQUESTER: KSC
SUBREQUESTER: I-IT-D2-B KICS-105
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 KING2001 L3122 MK98 R109-43
PRIORITY: REQUIRED
RATIONALE: POINT TO POINT FROM CD&SC TECH. CONTROL TO ETR TECH CONTROL FOR MAINTENANCE. BACKUP - MISSION COMM. COORDINATOR.

1. DESCRIPTION: CDSC/CCAFS - COMM MAINT COORD (HOT DIAL)

CKT NO.	FROM	T0	REMARKS
826-0506	TECH CONTROL CKT # 9013 CH 12 KSC 05.06 M6-138 (7-2276)	XY CCAFS ETR	MAINT COORD

TECH CONTACT: ER/MIKE GAWEL/321-853-8118
KSC/KICS-306/ROBERT SCHNEIDER/321 867-8565

NOTE: ER CKT # IS 2GP0952

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/01/06
RESPONSE TRACKING: Z3147

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105 KICS-306

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2752 - POINT-TO-POINT TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 21359
ITEM NUMBER: K6EK

SMI-KSC/CSR

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/22/06
RESPONSE TRACKING: Z3147

[PRD] DATABASE RECORD: 252058 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/22/06
INITIAL DATE: 04/15/91
ITEM NUMBER: E12EK DATE LAST CHANGED: 11/28/06
SECTION: 2752 TIME LAST CHANGED: 13:48:17

REQUESTER: ER
SUBREQUESTER: FR 1/3/4
TEST CODE: S0007.100 STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 KING2001 L3122 L3944 R109-43
R2893 R6528

1. DESCRIPTION: FR 3/4 C2/CCAFS SEM (HOT DIAL)

CKT NO.	FROM	TO	TITLE/REMARKS
826-1106/1116	FR3/4 C2 CKT NO. 032-1106 CH 6	ROCC SEM CONS	FR C2 CONSOLE CCAFS SEM

TECH CONTACT: ER/MIKE GAWEL/321-853-8118
KSC/KICS-306/ROBERT SCHNEIDER/321 867-8565

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/22/06
RESPONSE TRACKING: Z2877 Z3147 Z3986 Z6520

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2752 - POINT-TO-POINT TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 252058
ITEM NUMBER: E12EK

SUBSUPPLIER: I-IT-D2-A KICS-105 KICS-306
SMI-KSC/CSR

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/22/06
RESPONSE TRACKING: Z2877 Z3147 Z3986 Z6520

[PRD] DATABASE RECORD: 21367 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/22/06
INITIAL DATE: 05/01/90
ITEM NUMBER: K14EK DATE LAST CHANGED: 06/01/06
SECTION: 2752 TIME LAST CHANGED: 10:50:10

REQUESTER: KSC
SUBREQUESTER: I-PH-B I-TA
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 KING2001 L3122 MK98 R109-43
PRIORITY: REQUIRED
RATIONALE: BACKUP - ALTERNATE CIRCUIT PTP 2BPC086 AND BLACK PHONE.

1. DESCRIPTION: SLF/ROCC - WX COORD (HOT DIAL)

CKT NO.	FROM	TO	REMARKS/TITLE
826-6006	SOLAR COMM SYSTEM CKT # 9007 CH 6 KSC 60.06 J5-1197 LEVEL 70	ER ROCC WEATHER FACILITY	WX SHACK/CONT TWR/ LACB/RWO WEATHER

TECH CONTACT: ER/MIKE GAWEL/321-853-8118
KSC/KICS-306/ROBERT SCHNEIDER/7-8565

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/01/06
RESPONSE TRACKING: Z3147

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2752 - POINT-TO-POINT TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 21367
ITEM NUMBER: K14EK

SUBSUPPLIER: I-IT-D2-A KICS-105 KICS-306
KSC/SMI/CSR

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/22/06
RESPONSE TRACKING: Z3147

[PRD] DATABASE RECORD: 21671 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/22/06
INITIAL DATE: 05/01/90
ITEM NUMBER: E15EK DATE LAST CHANGED: 08/11/06
SECTION: 2752 TIME LAST CHANGED: 08:57:05

REQUESTER: ER
SUBREQUESTER: I-PH-B
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 KING2001 L3122 R109-43 R6528

1. DESCRIPTION: WX STA B/RWO

CKT NO.	FROM	TO	TITLE/REMARKS
826-6006	SOLAR COMM SYSTEM CKT 9004 CH 3 KSC 60.00 J5-1197 LEVEL 70	ROCC BLDG 81900 CCAFX (LWOC)	WX STA B/RWO

TECH CONTACT: ER/MIKE GAWEL/321 853-8118
KSC/KICS-306/ROBERT SCHNEIDER/321 867-8565

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/22/06
RESPONSE TRACKING: Z3147

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2752 - POINT-TO-POINT TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 21671
ITEM NUMBER: E15EK

SUBSUPPLIER: I-IT-D2-A KICS-105 KICS-306
KSC-CSR/SMI

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/22/06
RESPONSE TRACKING: Z3147

[PRD] DATABASE RECORD: 253784 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/22/06
INITIAL DATE: 04/15/91
ITEM NUMBER: E17EK DATE LAST CHANGED: 02/01/07
SECTION: 2752 TIME LAST CHANGED: 14:05:34

REQUESTER: ER
SUBREQUESTER: FR1/3/4
TEST CODE: S0007.100 S0017.100 STSALL

ASSOCIATED DOC: 20007S 20017S
TRACKING NO. COMREV05 KING2001 L3122 L3944 R109-43
R2893 R6528
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: KSC RSR/FCO (HOT DIAL)

CKT. NO.	FROM	TO	TITLE/REMARKS
* 826-1108/ 1118	K6-900 FR 3/4	ROCC FLIGHT CONTROL OPERATIONS (FCO) CCAFS-FCS	KSC, RANGE SAFETY REP (RSR) TO ER, FCO WO TO CSR

TECH CONTACT: ER/MIKE GAWEL/321-853-8118
KSC/KICS-306/ROBERT SCHNEIDER/321 867-8565

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2752 - POINT-TO-POINT TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 253784
ITEM NUMBER: E17EK

RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/01/06
RESPONSE TRACKING: Z2877 Z3147 Z3986 Z6520

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105 KICS-306
KSC-CSR/SMI

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/22/06
RESPONSE TRACKING: Z2877 Z3147 Z3986 Z6520

[PRD] DATABASE RECORD: 18647 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/22/06
INITIAL DATE: 04/15/91
ITEM NUMBER: K22EK DATE LAST CHANGED: 09/19/06
SECTION: 2752 TIME LAST CHANGED: 13:02:57

REQUESTER: KSC
SUBREQUESTER: FR1/3/4 KSC/PH-L
TEST CODE: STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S
TRACKING NO. COMREV05 KING2001 L3122 L3944 MK98
R109-43 R2810 R2883
PRIORITY: REQUIRED
RATIONALE: BACKUP - BLACK PHONE.

1. DESCRIPTION: LCC/ROCC - LAUNCH DIR CON/NASA MGT CON (L-5 HOURS)
(HOT DIAL)

PROVIDE CIRCUIT AS FOLLOWING:

CKT NO.	FROM	TO	TITLE/REMARKS
826-1104/ 1114	FR3/4 AA-5 CKT # 032-1104 CH 4	CCAFS NAMO	LAUNCH DIR/ROCC, NAMO WO TO CSR H1 PATCH 4

TECHNICAL CONTACT: ER/MIKE GAWEL/321-853-8118

CONTINUED

[PRD] DATABASE RECORD: 18647
ITEM NUMBER: K22EK

KSC/KICS-306/ROBERT SCHNEIDER/321 867-8565

NOTE: THE LINE IS TO BE PATCHED TO THE APPLICABLE FIRING ROOM FOR EACH MISSION.

* CIRCUIT TO BE ACTIVE TO PRIME FR ONLY.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/15/06
RESPONSE TRACKING: Z2865 Z3147 Z3986

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105 KICS-306
KSC-CSR/SMI

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/22/06
RESPONSE TRACKING: Z2865 Z3147 Z3986

[PRD] DATABASE RECORD: 335539 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/31/02
INITIAL DATE: 04/15/91
ITEM NUMBER: K23EK DATE LAST CHANGED: 09/19/06
SECTION: 2752 TIME LAST CHANGED: 13:03:12

REQUESTER: KSC
SUBREQUESTER: IT-D2 KT-C
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 KING2001 L113-1 L2952 L2960
L3122 L3944 MK98 R109-43 R111-2
PRIORITY: REQUIRED
RATIONALE: BACKUP - BLACK PHONE.

1. DESCRIPTION: HURRICANE CONTROL CENTER TO RWO (HOT DIAL)
PROVIDE CIRCUIT AS FOLLOWS:

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2752 - POINT-TO-POINT TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 335539
ITEM NUMBER: K23EK

CKT NO.	FROM	TO	TITLE/REMARKS
826-1105/ 1115	FR3/4 OSR A-5 CKT # 032-1105 CH 5	ROCC WX	CCAFS WX

TECH CONTACT: KSC/JOHN MADURA/KT-C/321 867-0814
ER/MIKE GAWEL/321 867-8118

* CIRCUIT TO BE ACTIVE TO PRIME FR ONLY.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/06/03
RESPONSE TRACKING: Z107-10 Z2995 Z3147 Z3986

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/31/02
RESPONSE TRACKING: Z113-4 Z2995 Z3147 Z3986

[PRD] DATABASE RECORD: 21680 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/23/06
INITIAL DATE: 05/01/90
ITEM NUMBER: K24EK DATE LAST CHANGED: 05/24/06
SECTION: 2752 TIME LAST CHANGED: 07:49:44

REQUESTER: KSC
SUBREQUESTER: I-IT-D2 I-PH SGS-347 USK-380
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 KING2001 L3122 MK98
PRIORITY: REQUIRED
RATIONALE: ELECTRICAL POWER COORDINATION BETWEEN ER AND KSC.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2752 - POINT-TO-POINT TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 21680
ITEM NUMBER: K24EK

1. DESCRIPTION: LCC/CCAFS - POWER COORD (HOT DIAL)

CKT NO.	FROM	TO	TITLE/REMARKS
826-1171	LCC 1P9 CKT # *9002 CH 1 KSC11.71	ER BLDG. 1740	POWER COORD

TECH CONTACT: ER/MIKE GAWEL/321 853-8118
KSC/ROBERT SCHNEIDER/321 867-8565

NOTE: ER CKT # IS 2GP0802

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/23/06
RESPONSE TRACKING: Z3147

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105 KICS-306
KSC-SMI/CSR

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/23/06
RESPONSE TRACKING: Z3147

[PRD] DATABASE RECORD: 21683 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/01/90
INITIAL DATE: 05/01/90
ITEM NUMBER: K26EK DATE LAST CHANGED: 06/05/07
SECTION: 2752 TIME LAST CHANGED: 13:42:35

REQUESTER: KSC
SUBREQUESTER: I-TA SGS-346 SGS-347
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 L3122 MK98

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2752 - POINT-TO-POINT TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 21683
ITEM NUMBER: K26EK

PRIORITY: REQUIRED
RATIONALE: BACKUP - BLACK PHONE

1. DESCRIPTION: SLF/ROCC - AIRCRAFT COORDINATOR

CKT NO.	FROM	TO	TITLE/REMARKS
2BPC086	A) SLF CNTL TWR COMM PNL BTN 5	ROCC OPNS CONSOLE	ACFT COORD ROCC/SLF
	B) LACB RM5 LEFT COMM PNL BTN 5		
	C) LACB RM 5 RIGHT COMM PNL BTN 5		

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/01/90
RESPONSE TRACKING: Z3147

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/01/90
RESPONSE TRACKING: Z3147

[PRD] DATABASE RECORD: 255474 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/23/06
INITIAL DATE: 04/15/91
ITEM NUMBER: E28EK DATE LAST CHANGED: 02/01/07
SECTION: 2752 TIME LAST CHANGED: 14:03:42

REQUESTER: ER
SUBREQUESTER: FR1/3/4
TEST CODE: S0007.100 S0017.100 STSALL

ASSOCIATED DOC: 20007S 20017S 25009S
TRACKING NO. COMREV05 KING2001 L3122 L3944 R109-43
R2893 R6528 R9305
PRIORITY: REQUIRED

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2752 - POINT-TO-POINT TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 255474
ITEM NUMBER: E28EK

RATIONALE: MISSION SUPPORT

1. DESCRIPTION: RSR/SRO - SRO (RCO) TO RANGE SAFETY REP
(HOT DIAL)

CKT NO.	FROM	TO	REMARKS
827-1107/ 1117	FR3/4 C 2 CONS CKT # 032-1107 CH 7	ROCC, RCO (SRO) CONS	SRO

NOTE: REQUIRED DURING FINAL ORDNANCE INSTALLATION
AND CHECKOUT (PAD) AND LAUNCH.

* CIRCUIT TO BE ACTIVE TO PRIME FR ONLY.

TECH CONTACT: ER/MIKE GAWEL/321-853-8118
KSC/ROBERT SCHNEIDER/KICS-306/321 867-8565

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/23/06
RESPONSE TRACKING: Z2877 Z3147 Z3986 Z6520 Z9305

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105 KSC-CSR/SMI

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/23/06
RESPONSE TRACKING: Z2877 Z3147 Z3986 Z6520 Z9305

[PRD] DATABASE RECORD: 17105 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/23/06
INITIAL DATE: 05/01/90
ITEM NUMBER: K30K DATE LAST CHANGED: 09/19/06
SECTION: 2752 TIME LAST CHANGED: 13:04:12

REQUESTER: KSC
SUBREQUESTER: KSC/MK-SIO NASA HQ OMR1/3/4 OSR1/3/4

CONTINUED

[PRD] DATABASE RECORD: 17105
ITEM NUMBER: K30K

TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 L3122 R109-43 R2952
PRIORITY: REQUIRED
RATIONALE: BACKUP - BLACK PHONE.

1. DESCRIPTION: OMR TO OSR (HOT DIAL)

CKT NO.	FROM	TO	TITLE/REMARKS
61028	KSC CTR DIR OMR 3/4 CONS A4/5	DIR SPM CKT # 61029	KSC CTR DIR TO KSC DIR SPM

POINT OF CONTACT: RANDY SEGERT/MK/321-867-8250

NOTE: ONLY WORKS IN PRIME FIRING ROOM

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105 KSC-CSR/SMI

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/23/06
RESPONSE TRACKING: Z2959 Z3147

[PRD] DATABASE RECORD: 21692 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/28/06
INITIAL DATE: 05/01/90
ITEM NUMBER: K33GK DATE LAST CHANGED: 11/16/06
SECTION: 2752 TIME LAST CHANGED: 07:13:16

REQUESTER: KSC
SUBREQUESTER: IT-D2 KICS-108
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 DB98 GSFCREV0 KING2001 L3122
R109-43
PRIORITY: REQUIRED

CONTINUED

[PRD] DATABASE RECORD: 21692
ITEM NUMBER: K33GK

RATIONALE: BACKUP - ALTERNATE OIS CHANNELS OR BLACK PHONE.

1. DESCRIPTION: CDSC/MILA - COMM COORD (HOT DIAL)

CKT NO.	FROM	TO	TITLE/REMARKS
826-0542	M6-138 132 TECH CONTROL (7-2276)	MILA RM 106 826-0543	COMM COORD

POINT OF CONTACT: MILA/MELISSA BLIZZARD/321 867-1068

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/28/06
RESPONSE TRACKING: Z3147

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105 KSC-CSR/SMI

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/28/06
RESPONSE TRACKING: Z3147

[PRD] DATABASE RECORD: 260983 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/28/06
INITIAL DATE: 05/01/90
ITEM NUMBER: K34EK DATE LAST CHANGED: 08/11/06
SECTION: 2752 TIME LAST CHANGED: 08:24:19

REQUESTER: KSC
SUBREQUESTER: I-PH-B I-PH-L USK-299
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 KING2001 L3122 MK98 R0602-2
R2894
PRIORITY: REQUIRED
RATIONALE: BACKUP - BLACK PHONE.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2752 - POINT-TO-POINT TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 260983
ITEM NUMBER: K34EK

1. DESCRIPTION: LCC/ROCC - WEATHER COORD

CKT NO.	FROM	TO	TITLE/REMARKS
826-1175	LCC 2R21 (1-4910)	CKT *9008 CH 7 KSC 11.75	USA DUTY OFFICE TO CCAFS WX

POC: KSC/GEORGE ODOM/321 861-2374

TECH CONTACT: ER/MIKE GAWEL/321 853-8118
KSC/ROBERT SCHNEIDER/321 867-8565

NOTE: ER CKT # IS 2GP1004

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 8853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/28/06
RESPONSE TRACKING: Z2885 Z3147

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105 KSC-CSR/SMI

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/28/06
RESPONSE TRACKING: Z2885 Z3147

[PRD] DATABASE RECORD: 525833 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/14/99
INITIAL DATE: 03/16/94
ITEM NUMBER: E37.1EK DATE LAST CHANGED: 03/08/06
SECTION: 2752 TIME LAST CHANGED: 07:14:51

REQUESTER: ER
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 L5909 R109-43 R9305

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2752 - POINT-TO-POINT TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 525833
ITEM NUMBER: E37.1EK

1. DESCRIPTION: RSC TO 19.17 RADAR

CKT NO.	FROM	TO	TITLE/REMARKS
2BPC138	ROCC	MOBILE C-BAND RADAR (MCBR)	ROCC/MCBR AT 19.17 RADAR

POINT OF CONTACT: MIKE GAWEL/321 853-8118

NOTE: ER CKT # IS 2GP0545

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/14/99
RESPONSE TRACKING: Z5909 Z9305

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/14/99
RESPONSE TRACKING: Z5909 Z9305

[PRD] DATABASE RECORD: 21822 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/28/06
INITIAL DATE: 05/01/90
ITEM NUMBER: K52GK DATE LAST CHANGED: 11/16/06
SECTION: 2752 TIME LAST CHANGED: 07:13:16

REQUESTER: KSC
SUBREQUESTER: IT-D2 USK-145
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 DB98 KING2001 L3122 R109-43
PRIORITY: REQUIRED
RATIONALE: ALTERNATE COMMUNICATION SOURCES AVAILABLE.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2752 - POINT-TO-POINT TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 21822
ITEM NUMBER: K52GK

1. DESCRIPTION: CDSC/MILA - COMM COORD

CKT NO.	FROM	TO	TITLE/REMARKS
826-0544	CDSC CONS 105A2 & 105A4 35 LINE PANEL KEY 6	MILA GCC CONS RM 106 826-0545	COMM COORD

POINT OF CONTACT: MILA/MELISSA BLIZZARD/321 867-1068

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/28/06
RESPONSE TRACKING: Z3147

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105 KSC-CSR/SMI

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/28/06
RESPONSE TRACKING: Z3147

[PRD] DATABASE RECORD: 9792 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/08/91
INITIAL DATE: 06/21/89
ITEM NUMBER: K55EK DATE LAST CHANGED: 06/05/07
SECTION: 2752 TIME LAST CHANGED: 13:43:11

REQUESTER: KSC
SUBREQUESTER: I-TA SGS-347
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 L3122 L3909 MK98 R109-43
R2870
PRIORITY: REQUIRED
RATIONALE: BACKUP - BLACK PHONE.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2752 - POINT-TO-POINT TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 9792
ITEM NUMBER: K55EK

1. DESCRIPTION: LCC/CCAFS - JBOSC D.O. TO CCAFS LIFE SUPPORT

CKT NO.	FROM	TO	TITLE/REMARKS
2BPC203	LCC 2R21 CONS 7 12 LP KEY 6	CCAFS LIFE SUPPORT HGR-S	JBOSC D.O. TO CCAFS LIFE SUPPORT

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/08/91
RESPONSE TRACKING: Z2858 Z3147 Z3947

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/08/91
RESPONSE TRACKING: Z2858 Z3147 Z3947

[PRD] DATABASE RECORD: 284875 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/07/96
INITIAL DATE: 02/14/91
ITEM NUMBER: K68.1EK DATE LAST CHANGED: 06/05/07
SECTION: 2752 TIME LAST CHANGED: 13:43:56

REQUESTER: KSC
SUBREQUESTER: I-PH-B I-TA SGS-347 SGS-349
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 L3122 L3934 L7605 MK98
R109-43 R2894 R6515 SHAW94
PRIORITY: MANDATORY
RATIONALE: WEATHER INFORMATION DURING EMERGENCIES.

1. DESCRIPTION: LCC/CCAFS - LCC SAFETY CONS TO ROCC WX OPS (HOT DIAL)

A POINT-TO-POINT WEATHER LINE BETWEEN THE ROCC/RANGE WEATHER

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2752 - POINT-TO-POINT TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 284875
ITEM NUMBER: K68.1EK

OPERATIONS TO LCC ROOM 2R21, WITH A SLAVE TO THE CENTRAL OPERATIONS FACILITY (COF), K6-2496, ROOM 1064, IS MANDATORY FOR INSTANT WEATHER INFORMATION DURING EMERGENCIES. THE PROTECTIVE SERVICES CONTROL CENTER DISPATCHES FIRE, SECURITY, AND EMERGENCY MEDICAL UNITS AROUND THE CLOCK--THUS THE LINE MUST REMAIN OPERATIONAL 24 HOURS A DAY, 365 DAYS A YEAR FOR EMERGENCY RESPONSE SUPPORT.

CKT NO.	FROM	TO	TITLE/REMARKS
2BPC246	LCC 2R21 SAF CONS KS21599 EOC K6-2496 RM 1064	ROCC WX OPS	EOC & LCC SAFETY CONS TO ROCC WX OPS

POINT OF CONTACT: GERALD SCHWARTZ/KSC-SMI/321-867-6002

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/02/96
RESPONSE TRACKING: Z2885 Z3147 Z3978 Z7905

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-B KSC-SMI

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/01/96
RESPONSE TRACKING: Z2885 Z3147 Z3978 Z7602 Z7707

[PRD] DATABASE RECORD: 513379 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/28/06
INITIAL DATE: 01/23/91
ITEM NUMBER: K68.2EK DATE LAST CHANGED: 09/19/06
SECTION: 2752 TIME LAST CHANGED: 13:05:48

REQUESTER: KSC
SUBREQUESTER: FR3/4 KSC/PH-L OSR3/4
TEST CODE: STSALL

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2752 - POINT-TO-POINT TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 513379
ITEM NUMBER: K68.2EK

ASSOCIATED DOC: 20007S 20017S
TRACKING NO. COMREV05 KING2001 L3943 MK98 R109-43
R3928 R3934
PRIORITY: MANDATORY
RATIONALE: CRITICAL POSITION FOR LAUNCH DIRECTOR TO COMMANDER 45SW.

1. DESCRIPTION: LCC/CCAFS - LCH DIR/DEP DIR OPS TO CMDR 45 SW/ER
(L-5 HOURS)

CKT NO.	FROM	TO	REMARKS
826-1103/ 1113	FR3/4	ROCC 45 SW CMDR ER/CMDR 032-1103	CIRCUIT TO PROVIDE RING ON OTHER PHONES ANY TIME ANY OTHER PHONE IS PICKED UP.

* CIRCUIT TO BE ACTIVE TO PRIME FR ONLY.

TECH CONTACT: JEFF SPAULDING/PH-L/321 861-9306

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/15/06
RESPONSE TRACKING: Z39102 Z3957 Z3985 Z4307

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105 KICS-306
KSC-CSR/SMI

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/28/06
RESPONSE TRACKING: Z39102 Z3934 Z3971 Z3985

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2752 - POINT-TO-POINT TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 21856 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/01/90
INITIAL DATE: 05/01/90
ITEM NUMBER: K74EK DATE LAST CHANGED: 06/05/07
SECTION: 2752 TIME LAST CHANGED: 13:44:23

REQUESTER: KSC
SUBREQUESTER: I-TA SGS-347
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 L3122 MK98 R109-43
PRIORITY: REQUIRED
RATIONALE: BACKUP - BLACK PHONE.

1. DESCRIPTION: LCC/CCAFS - JBOSC D.O. TO PROP OPS SOUTH

CKT NO.	FROM	TO	TITLE/REMARKS
2BPC295	1P12A 2-20 LINE SECRETARIAL ANSWERING SET BTN 8	ER BLDG 6-01047	JBOSC DUTY OFF/ PROPELLANT SOUTH

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/01/90
RESPONSE TRACKING: Z3147

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/01/90
RESPONSE TRACKING: Z3147

[PRD] DATABASE RECORD: 525834 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/28/06
INITIAL DATE: 03/16/94
ITEM NUMBER: E74.1EK DATE LAST CHANGED: 06/01/06
SECTION: 2752 TIME LAST CHANGED: 10:46:00

REQUESTER: ER
TEST CODE: STSALL WX

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2752 - POINT-TO-POINT TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 525834
ITEM NUMBER: E74.1EK

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 KING2001 L5909 L7503 R109-43
SHAW95

1. DESCRIPTION: WEATHER COORD

CKT NO.	FROM	TO	TITLE/REMARKS
826-6002	WEATHER STA-B J5-1197 LVL 70 6LN SAS BTN 2	ER ROCC RM146.1 CON M9 032-6002	METEOROLOGICAL SYSTEM COORD

POINT OF CONTACT: KSC/JOHN MADURA/KT-C/321-867-0814
ER/MIKE GAWEL/321 853-8118

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/01/06
RESPONSE TRACKING: Z5909 Z7508

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105 KICS-306
KSC-SMI/CSR

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/28/06
RESPONSE TRACKING: Z5909 Z6927 Z7604

[PRD] DATABASE RECORD: 525835 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/28/06
INITIAL DATE: 03/16/94
ITEM NUMBER: E74.2EK DATE LAST CHANGED: 06/01/06
SECTION: 2752 TIME LAST CHANGED: 10:46:35

REQUESTER: ER
TEST CODE: STSALL WX

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2752 - POINT-TO-POINT TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 525835
ITEM NUMBER: E74.2EK

ASSOCIATED DOC: 20007S 20028S
TRACKING NO. COMREV05 KING2001 L3122 R109-43

1. DESCRIPTION: WEATHER COORD

CKT NO.	FROM	TO	TITLE/REMARKS
026-6004	WEATHER STA-B J7-1197 LVL 70	ER CAPE WEATHER BLDG 1383 032-6004	CAPE WEATHER

POINT OF CONTACT: JOHN MADURA/KT-C/321-867-0814

TECH CONTACT: ER/MIKE GAWEL/321 853-8118

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/01/06
RESPONSE TRACKING: Z3147

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105 KICS-306
KSC-CSR/SMI

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/28/06
RESPONSE TRACKING: Z3147

[PRD] DATABASE RECORD: 21857 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/28/06
INITIAL DATE: 05/01/90
ITEM NUMBER: K76EK DATE LAST CHANGED: 06/01/06
SECTION: 2752 TIME LAST CHANGED: 10:46:52

REQUESTER: KSC
SUBREQUESTER: I-TA SGS-347
TEST CODE: STSALL

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2752 - POINT-TO-POINT TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 21857
ITEM NUMBER: K76EK

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 L3122 MK98 R109-43
PRIORITY: REQUIRED
RATIONALE: BACKUP - BLACK PHONE.

1. DESCRIPTION: LCC/CCAFS - SUPPORT CONS TO PROP OPS SOUTH

CKT NO.	FROM	TO	TITLE/REMARKS
2BPC331	826-0619 2R29CA ON 861-5464	CCAFS BLDG 6-1047 500 DESK SET-SINGLE LINE 032-0619	SUPPORT CONS/ PROPELLANT SO.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/01/06
RESPONSE TRACKING: Z3147

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105 KICS-306
KSC-CSR/SMI

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/28/06
RESPONSE TRACKING: Z3147

[PRD] DATABASE RECORD: 230503 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/27/02
INITIAL DATE: 04/15/91
ITEM NUMBER: K89EK DATE LAST CHANGED: 09/19/06
SECTION: 2752 TIME LAST CHANGED: 13:07:01

REQUESTER: KSC
SUBREQUESTER: FR3/4 KSC/PH-L
TEST CODE: FR4 STSALL

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. KING2001 L3122 L3611 L3944 L4206
MK98 R109-43 R2894

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2752 - POINT-TO-POINT TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 230503
ITEM NUMBER: K89EK

PRIORITY: MANDATORY
RATIONALE: CRITICAL, DEDICATED AND PROTECTED - REF OIS-212 AND OIS 232.

1. DESCRIPTION: KSC/CCAFS - NTD TO SRO (L-5 HOURS)

CKT NO.	FROM	TO	TITLE/REMARKS
826-1101/ 1111	LCC3/4 NTD CONS AB5/6	ROCC SRO CONSOLE 032-1101	NTD TO SRO

* CIRCUIT TO BE ACTIVE TO PRIME FR ONLY.

POINT OF CONTACT: JEFF SPAULDING/PH-L/321-861-9307

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/27/02
RESPONSE TRACKING: Z2885 Z3147 Z3609 Z3986 Z4236

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105 KICS-306
KSC-SMI

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/27/02
RESPONSE TRACKING: Z2885 Z3147 Z3626 Z3986 Z4236

[PRD] DATABASE RECORD: 238066 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/27/02
INITIAL DATE: 05/01/90
ITEM NUMBER: K90GK DATE LAST CHANGED: 11/16/06
SECTION: 2752 TIME LAST CHANGED: 07:13:20

REQUESTER: KSC
SUBREQUESTER: FR3/4 KSC/PH-L

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2752 - POINT-TO-POINT TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 238066
ITEM NUMBER: K90GK

TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 DB98 KING2001 L3122 L4329
R109-43 R2809 R2894
PRIORITY: REQUIRED
RATIONALE: REQUIRED NTD COMMUNICATION WITH MILA.

1. DESCRIPTION: LCC/MILA - NTD TO MILA COORD

CKT NO.	FROM	TO	REMARKS
2BPM430	FR3/4 NTD CONS AB5/6	MILA	NTD TO MILA COORD

POINT OF CONTACT: KSC/TED MOSTELLER/PH-L/321-861-9307
MILA/MELISSA BLIZZARD/321 867-1068

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/27/02
RESPONSE TRACKING: Z2885 Z3147 Z4357

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/27/02
RESPONSE TRACKING: Z2885 Z3147 Z4357

[PRD] DATABASE RECORD: 21874 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/01/90
INITIAL DATE: 05/01/90
ITEM NUMBER: K99EK DATE LAST CHANGED: 03/08/06
SECTION: 2752 TIME LAST CHANGED: 07:14:38

REQUESTER: KSC
SUBREQUESTER: IT-D2-C
TEST CODE: STSALL

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2752 - POINT-TO-POINT TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 21874
ITEM NUMBER: K99EK

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 DB98 KING2001 L3122
PRIORITY: REQUIRED
RATIONALE: POINT TO POINT FROM CIF TIMING TO ETR (XY) TIMING BACKUP BLACK PHONE.

1. DESCRIPTION: CIF/XY - XY TO CIF CONTROL TIMING

CKT NO.	FROM	TO	TITLE/REMARKS
2BPC573	A. CIF RM 248 544 SET W/6040 KEY PAD KEY 1	XY TIMING	XY TIMING CIF CENTRAL TIMING
	B. CIF RM 248 CONS 4 56A MULTI LINE PANEL PHONE KEY 1		

POC: ER/MIKE GAWEL/321 853-8118

COMM CONTACT: KSC/MONIQUE MCLAMB/321 853-8118

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/01/90
RESPONSE TRACKING: Z3147

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/01/90
RESPONSE TRACKING: Z3147

[PRD] DATABASE RECORD: 21900 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/01/90
INITIAL DATE: 05/01/90
ITEM NUMBER: K100EK DATE LAST CHANGED: 06/05/07

CONTINUED

[PRD] DATABASE RECORD: 21900
ITEM NUMBER: K100EK

SECTION: 2752 TIME LAST CHANGED: 13:44:51

REQUESTER: KSC
SUBREQUESTER: IT-D2-C
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 L3122 MK98 R109-43
PRIORITY: REQUIRED
RATIONALE: KEY HUB FOR COMMUNICATION AND TIMING.

1. DESCRIPTION: LCC/XY - XY TIMING TO LCC SUB CENTRAL(L-5 HOURS)

CKT NO.	FROM	TO	TITLE/REMARKS
2BPC574	LCC 2P22 56A MULTI LINE PANEL PHONE KEY 2	XY TIMING	XY TIMING LCC SUB CENTRAL

POINT OF CONTACT: CHARLES ABELL/IT-D2-C/321-867-4360

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/01/90
RESPONSE TRACKING: Z3147

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/01/90
RESPONSE TRACKING: Z3147

[PRD] DATABASE RECORD: 21902 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/01/90
INITIAL DATE: 05/01/90
ITEM NUMBER: K101EK DATE LAST CHANGED: 12/13/06
SECTION: 2752 TIME LAST CHANGED: 10:25:27

REQUESTER: KSC
SUBREQUESTER: KSC/TA

CONTINUED

[PRD] DATABASE RECORD: 21902
ITEM NUMBER: K101EK

TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 L3122 MK98 R109-43
PRIORITY: REQUIRED
RATIONALE: THIS LINK IS TO THE ENVIRONMENTAL HEALTH BASE STATION RADIO LOCATED ON THE CCAFS TIMING TOWER. BACKUP - "Y" NET AND BLACK PHONE.

1. DESCRIPTION: KSC/ER - ENVIRONMENTAL HEALTH BUILDING MED TO CAPE SUPPORT

CKT NO.	FROM	TO	TITLE/REMARKS
2BPC582	ROCC-CAPE SUPPORT	ENVIRONMENTAL HEALTH BLDG 6 LINE SECRETARIAL ANSWERING SET KEY 5	MEDICAL/CAPE SUPPORT

NOTE: ER CKT # IS 2GP0845

POINT OF CONTACT: BURT SUMMERFIELD/TA/321 867-4598

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/01/90
RESPONSE TRACKING: Z3147

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/01/90
RESPONSE TRACKING: Z3147

[PRD] DATABASE RECORD: 16122 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/17/91
INITIAL DATE: 05/01/90
ITEM NUMBER: K122E DATE LAST CHANGED: 03/08/06

CONTINUED

[PRD] DATABASE RECORD: 16122
ITEM NUMBER: K122E

SECTION: 2752 TIME LAST CHANGED: 07:14:34

REQUESTER: KSC
SUBREQUESTER: KSC/TA-E SOC
TEST CODE: STSALL SUPSIM

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 KING2001 L2607 L3122 MK98
R109-43 R26209 R2809 R3424 R4218
PRIORITY: REQUIRED
RATIONALE: ALTERNATE COMMUNICATION SOURCE AVAILABLE.

1. DESCRIPTION: NASA MGT. CON./DOD SOC DIR PTP(L-5 HOURS)

PROVIDE CIRCUIT AS FOLLOWS:

CKT NO	FROM	TO	TITLE/REMARKS
- - -	- - - -	- - - -	- - - - - - -
	ROCC, NASA MGT CON	PAFB, DOD SOC DIR CONSOLE	

POINT OF CONTACT: WILLIAM HAASE/TA-E/321 494-9163

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/17/91
RESPONSE TRACKING: Z26142 Z2686 Z3147 Z3415 Z4225

[PRD] DATABASE RECORD: 320038 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/01/90
INITIAL DATE: 05/01/90
ITEM NUMBER: K123E DATE LAST CHANGED: 03/08/06
SECTION: 2752 TIME LAST CHANGED: 07:14:47

REQUESTER: KSC
SUBREQUESTER: KSC/TA-E
TEST CODE: STSALL SUPSIM

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2752 - POINT-TO-POINT TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 320038
ITEM NUMBER: K123E

ASSOCIATED DOC: 20007S 20014S 20017S
TRACKING NO. COMREV05 KING2001 L2607 L3122 MK98
R109-43
PRIORITY: REQUIRED
RATIONALE: ALTERNATE COMMUNICATION SOURCE AVAILABLE.

1. DESCRIPTION: NASA MGT. CON/ER CMD POST PTP (L-5 HOURS)
PROVIDE CIRCUIT AS FOLLOWS:

CKT NO.	FROM	TO	TITLE/REMARKS
	ROCC NASA MGT CON	ROCC L/S CMDR CONS	45 SW/CC/CV/SE/OG

POINT OF CONTACT: WILLIAM HAASE/TA-E/321 494-9163

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/01/90
RESPONSE TRACKING: Z2686 Z3147

[PRD] DATABASE RECORD: 323639 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/01/90
INITIAL DATE: 05/01/90
ITEM NUMBER: K124E DATE LAST CHANGED: 03/08/06
SECTION: 2752 TIME LAST CHANGED: 07:14:47

REQUESTER: KSC
SUBREQUESTER: KSC/TA-E
TEST CODE: STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S
TRACKING NO. COMREV05 KING2001 L2607 L3122 MK98
R109-43 R26209 R2809
PRIORITY: REQUIRED

CONTINUED

[PRD] DATABASE RECORD: 323639
ITEM NUMBER: K124E

RATIONALE: ALTERNATE COMMUNICATION SOURCE AVAILABLE.

1. DESCRIPTION: NASA MGT CON/ROC CON PTP(L-5 HOURS) PROVIDE CIRCUIT AS FOLLOWS:

CKT NO.	FROM	TO	TITLE/REMARKS
	ROCC NASA MGT CON	ROCC ROC	AF RANGE OPS CMDR (ROC)

POC: WILLIAM HAASE/TA-E/321 494-9163

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/01/90
RESPONSE TRACKING: Z26142 Z2676 Z3147

[PRD] DATABASE RECORD: 330894 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/01/90
INITIAL DATE: 05/01/90
ITEM NUMBER: K127E DATE LAST CHANGED: 03/08/06
SECTION: 2752 TIME LAST CHANGED: 07:14:47

REQUESTER: KSC
SUBREQUESTER: I-PH-B KSC/TA-E
TEST CODE: STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S
TRACKING NO. COMREV05 KING2001 L2607 L3122 MK98
R109-43
PRIORITY: REQUIRED
RATIONALE: ALTERNATE COMM SOURCE AVAILABLE.

1. DESCRIPTION: NASA MGT. CON/RWO PTP (L-5 HOURS) PROVIDE CIRCUIT AS FOLLOWS:

CKT NO.	FROM	TO	TITLE/REMARKS

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2752 - POINT-TO-POINT TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 330894
ITEM NUMBER: K127E

ROCC NASA MGT CON	ROCC RWO MET STAFF

POC: WILLIAM HAASE/TA-E/321 494-9163

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/01/90
RESPONSE TRACKING: Z2676 Z3147

[PRD] DATABASE RECORD: 15100 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/15/91
INITIAL DATE: 02/15/91
ITEM NUMBER: K131E DATE LAST CHANGED: 03/08/06
SECTION: 2752 TIME LAST CHANGED: 07:14:33

REQUESTER: KSC
SUBREQUESTER: KSC/TA-E
TEST CODE: STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S
TRACKING NO. COMREV05 KING2001 L2607 L3122 L3918
MK98 R109-43 R2809
PRIORITY: REQUIRED
RATIONALE: ALTERNATE COMMUNICATION SOURCE AVAILABLE.

1. DESCRIPTION: NASA MGT CON./AF PSM CON. PTP (L-5 HOURS) PROVIDE CIRCUIT AS FOLLOWS:

CKT NO.	FROM	TO	TITLE/REMARKS
	ROCC NASA MGT CON	ROCC AF PSM CON	

POC: WILLIAM HAASE/TA-E/321 494-9163

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2752 - POINT-TO-POINT TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 15100
ITEM NUMBER: K131E

RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/15/91
RESPONSE TRACKING: Z26142 Z2686 Z3147 Z3955

[PRD] DATABASE RECORD: 286289 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/01/90
INITIAL DATE: 05/01/90
ITEM NUMBER: E141EX DATE LAST CHANGED: 03/20/07
SECTION: 2752 TIME LAST CHANGED: 13:14:41

REQUESTER: ER
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. COMREV05 KING2001 L2646 L3122 R109-43
R2809

1. DESCRIPTION: EAFB COORDINATOR/COMMAND POST HOT LINE PROVIDE CIRCUIT AS FOLLOWS:

REF	TYPE OF SERVICE	FROM	TO	REMARKS
1	PTP	EAFB B-4800 RM 3018 COORD CON	AFFTC CMD POST	

POINT OF CONTACT: DENNY GAGEN/PH-L/321 861-9301
MIKE GAWEL/321 853-8118

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/01/90
RESPONSE TRACKING: Z26156 Z3147

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2752 - POINT-TO-POINT TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 286289
ITEM NUMBER: E141EX

SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/01/90
RESPONSE TRACKING: Z26156 Z3147

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2753 - TELETYPE TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 199672 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/14/89
INITIAL DATE: 06/14/89
ITEM NUMBER: K1.1D DATE LAST CHANGED: 05/30/07
SECTION: 2753 TIME LAST CHANGED: 10:33:10

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DODALS DODELS STSALL
TRACKING NO. COMREV05 DB98 KING2001 R109-62 R2809
R2856
PRIORITY: REQUIRED
RATIONALE: ALTERNATE COMMUNICATION SOURCES AVAILABLE.

1. DESCRIPTION: REQUEST USE OF EXISTING DOD TELETYPE NETWORK FROM THE ALS/ELS TO KSC DURING ORBITER GROUND TURNAROUND OPERATIONS.

POINT OF CONTACT: DEAN SCHAAF/PH-L/321-861-9311

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/14/89
RESPONSE TRACKING: Z2849

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 14626 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/02/07
INITIAL DATE: 12/13/90
ITEM NUMBER: K1DEGHKTX DATE LAST CHANGED: 07/12/07
SECTION: 2755 TIME LAST CHANGED: 09:08:27

REQUESTER: KSC
SUBREQUESTER: I-IT-D2-B KICS-109
TEST CODE: EAFB INFO S0007.100 S0017.100
S0027.001 S0028.100 S0028.200 S0028.300
S0028.500

ASSOCIATED DOC: 20001S 20007S 20017S 20027S
20028S
TRACKING NO. DB98 GSFCREV06 L2730 L2758 L2801
L3131 L3216 L3407 L3440 L3701
L3827 L3929 L3965 L4004 L4405
L4516 L4704 L5011 L5537 L5727
L7604 L8108 L8409 L8601 L9605
MK98 R0310-1 R0707-1 R10301 R109-45
R26159 R26192 R2925 R2926 R3004
R3107 R3409 R3449 R6541 R7502
R8106 R9009 R9016 R9307 SCRUB06
PRIORITY: REQUIRED
RATIONALE: INFORMATION

1. DESCRIPTION: THE FOLLOWING IS A SUMMARY OF ALL WIDEBAND CIRCUITS REQUIRED FOR THIS DOCUMENT AND IS SHOWN FOR REFERENCE ONLY.

REF	CKT NO.	FROM BLDG	FROM RM	TO BLDG	TO RM	REFERENCE ITEM # / SECTION # (*)
	6TVC400	CCAFS	AE	LCC	1P2	K38EK (*) = IF
	6TVC1719	MILA	106	CDSC	103	T19GK DIFFERENT
	6TVM1726	MILA	106	LCC	3P15	K6GK THAN 2755
	6TVM1729	MILA	106	LCC	2P17	K7GK,K36GK
	6TVM1730	LCC	3P15	MILA	106	T4GK
	6TVC2034	UCS23	N/A	KSCNF	1031	K62EK
	6TVM2038	LCC	1P2	CDSC	103	EKD24EK,EKD25EK
	6TVM2039	LCC	1P2	CDSC	103	H16.2GK,H55GK
	6TVC2050	CDSC	102	CDSC	103	EKD24EK,EKD25EK, T13KT,T13.1KT
	6TVC2051	CIF	331	CCAFS	XY	EK59EK

CONTINUED

[PRD] DATABASE RECORD: 14626
ITEM NUMBER: K1DEGHKTX

6TVC2052	CIF	331	CCAFS	XY	EK59EK
6TVC2077	CCAFS	XY	LCC	1P2	KTY12EK
			O&C	3267	
			O&C	1144	
			LACB	4&5	
			VABR	100	
			M6306	6030	
			FR3 OSR		
			FR4 OSR		
			LCC	1P9	
6TVC2079	CDSC	103	CCAFS	XY	EKD25EK
6TVC2083	CDSC	103	CCAFS	XY	EKD24EK
6TVM2087	CDSC	103	O&C	3267	T13KT,T13.1KT
6TVC2104	KSCNF	109	HGR AF	SA226	K66EK
			M6-138	103	
			M6-409	104C	
			M6-342	237A	
			M5-1494	106	
			M6-399	2268	
			M7-355	4247	
			M7-409	203D	
			K6-900	1P2	
			L6146	E254	
			L6250	SA2021	
6TVC2106	CCAFS	XY	LCC	1P2	KT15EK
			KSCNF	109	
6TVC2107	CCAFS	XY	LCC	1P2	Y88EKZ
6TVM2112	KSCNF	109	CDSC	103	T16GKT,EKD24EK,EKD25EK,
			TEL4	119	T52K
6TVC2115	M60342	331	1641	116	E80EK
6TVM2164	LCC	1P2	CDSC	103	T16.0.1GKT
6TVM2274	CDSC	103	O&C	1144	T13KT
2CLM3584	LCC	2P2	LCC	4R10	T16.0.1GKT
6TVC3602	CDSC		XY		K100EK
6TVC3603	CDSC		XY		K100EK
6TVC3605	CDSC		XY		K100EK
6TVC3702	CDSC		XY		K100EK
6TVC3703	CDSC		XY		K100EK
6TVC3704	CDSC		XY		K100EK

CONTINUED

[PRD] DATABASE RECORD: 14626
ITEM NUMBER: K1DEGHKTX

6TVC3705	CDSC		XY		K100EK
6TVC3709	CDSC		XY		K100EK
6TVM4094	LCC	3P15	CDSC	103	K10GK
6TVM4095	CDSC	103	MILA	106	K10GK
6TVM4096	MILA	106	CDSC	103	K6GK
6TVM4097	CDSC	103	LCC	3P15	K6GK
6TVC4274	PB DOAMS		CDSC		E86K
2CLM3576	PB DOAMS		CDSC		H16.2GK
6TVC2115	M60342	331	1641	116	K80EK
6TVM4099	LCC	1P2	CDSC	103	G77K
6DAC4279	N62296	204A	1641	116B	K103EK
6DAC4280	1641	116B	N6-2296	204A	K103EK
6TVC4302	CDSC	N/A	XY	N/A	K100EK
6TVC4303	CDSC	N/A	XY	N/A	K100EK
6TVC4304	CDSC	N/A	XY	N/A	K100EK
6TVC4309	CIF	147	XY	116	K100EK
6TVM4410	CIF ANT		O&C	4247	K64.1K
6TVM4411	CIF ANT		O&C	4247	K64.1K
6TVM4412	CIF ANT		O&C	4289	K64.1K
6TVC4504	CCAFS	29	LCC	1P11	K105EK
6TVC4505	CCAFS	29	LCC	1P11	K105EK
6TVC4506	CCAFS	29	LCC	1P11	K105EK
6TVM4514	TEL4	119	MILA	113	E2EGK
6TVM4515	MILA	113	TEL4	119	E2EGK
6TVM4646	LCC	3P15	MILA	113	K65GK
6TVM4647	LCC	3P15	MILA	113	K65GK
6TVM4648	MILA	113	LCC	3P15	K65GK
6TVM4649	MILA	113	LCC	3P15	K65GK
6TVM4650	MILA	113	LCC	2R11	K65GK, K70GK, K36GK
6TVC4675	XY		CDSC		G74EGK
8TVM4676	CDSC		MILA		"
8TVM4677	MILA		CDSC		"
6TVC4678	CDSC		XY		"
6TVM4684	CDSC	103A	MILA	113	G77K
6TVM4725	PAD A				T97K
6TVM4726	PAD A				T97K
6TVM4727	PAD B				T97K
6TVM4728	PAD B				T97K
6DAC4845	M60138	129	60680	1020	K96EK

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 14626
ITEM NUMBER: K1DEGHKTX

6DAC4848	60680	109	M60342	237A	K96EK
6TVC4760	PAFB		SLF MID	FIELD	K81EK
2DTM5099	CDSC	103	MILA	106	E2EGK
2DTM5120	MILA	106	CDSC	103	E2EGK
6EFL6072	L6-146	N/A	HGR AE		K90EK
6EFL6073	L6-146	N/A	HGR AE		K90EK
6DAC6159	CDSC	104	CCAFS	XY	K91EK
6DAC6160	CDSC	104	CCAFS	XY	K91EK
6DAC6161	CDSC	104	CCAFS	XY	K91EK
6DAC6162	CDSC	104	CCAFS	XY	K91EK
6DAC6163	CDSC	104	CCAFS	XY	K91EK
6DAC6164	CDSC	104	CCAFS	XY	K91EK
6DAC6174	TEL-4	102	CCAFS	XY	E89EK
6DAC6175	TEL-4	102	CCAFS	XY	E89EK
6DAC6176	CCAFS	XY	TEL-4	102	E89EK
6DAC6177	CCAFS	XY	TEL-4	102	E89EK
6DAC6340	M6-138		CCAFS	XY	K102EK
6DAC6341	M6-138		CCAFS	XY	K102EK
6DAC6356	TEL4	102	CCAFS	XY	K107EK
6DAC6357	TEL4	102	CCAFS	XY	K107EK
6DAC6726	M6-138	132	CCAFS	XY	K101EK
6TVC6819	J51244		K71205F	1031	KT79K
6TVC6999	CCAFS	XY	O&C	4289	E99K
			K6-2496	1064	E99K
			LCC	1P2	E99K
6TCB60018	CDSC	129	CCAFS	AE	K84EK
6TCB60022	CDSC	129	CCAFS	XY	E82EK
6TCB60047	HGR AE	109	HGR L	132	K84EK
6TCB60049	HGR AE	109	E&O	123	K84EK
6TCB60051	HGR AE	109	HGR AF	SA25	K90EK
6TCB60298	CCAFS	29	LCC	1P11	K105EK
6TCB60260	CDSC	N/A	ROCC	N/A	K83EK

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 07/02/07
RESPONSE TRACKING: Z10301 Z8134 Z8603 Z9016 Z9307

CONTINUED

[PRD] DATABASE RECORD: 14626
ITEM NUMBER: K1DEGHKTX

Z9608

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 07/02/07
RESPONSE TRACKING: Z0311-2 Z10301 Z8119 Z8134 Z8421
Z8603 Z9016 Z9307 Z9608

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: I-MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 07/02/07
RESPONSE TRACKING: Z10301 Z8120 Z8134 Z8421 Z8603
Z9016 Z9307 Z9608

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: PHILIP CAUTHEN/256 544-4204

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 07/02/07
RESPONSE TRACKING: Z10301 Z8134 Z8421 Z8603 Z9016
Z9307 Z9608

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 07/02/07
RESPONSE TRACKING: Z10301 Z8126 Z8134 Z8421 Z8603
Z9010 Z9016 Z9307 Z9608

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 07/02/07
RESPONSE TRACKING: Z10301 Z8134 Z8421 Z8603 Z8608
Z9016 Z9307

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

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[PRD] DATABASE RECORD: 14626
ITEM NUMBER: K1DEGHKTX

SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 07/02/07
RESPONSE TRACKING: Z10301 Z8134 Z8421 Z8603 Z8608
Z9016 Z9307

[PRD] DATABASE RECORD: 310959 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/09/03
INITIAL DATE: 10/04/89
ITEM NUMBER: E2EGK DATE LAST CHANGED: 01/16/07
SECTION: 2755 TIME LAST CHANGED: 10:33:53

REQUESTER: ER
TEST CODE: S0028.100 S0028.200 STSALL

ASSOCIATED DOC: 20007S 20017S 20028S
TRACKING NO. COMREV05 KING2001 L107-2 L3430 R109-45
R2893 SCRUB06

1. DESCRIPTION: S-BAND TLM DATA (192/96 KBPS)

PROVIDE DATA CIRCUITS TO TEL-4 AND MILA FOR TRANSMISSION OF
JDI S-BAND TLM 96/192KB FROM TEL-4 TO MILA AND MILA 192KB S-BAND
TLM 96/192KB TO TEL-4.

REFERENCE: ITEM E24G SECT LLS2200 DBR 246220
ITEM T90EG SECT LLS2200 DBR 018955

POC: MIKE GAWEL/321 853-8118

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/09/03
RESPONSE TRACKING: Z107-13 Z2877 Z3468

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)

CONTINUED

[PRD] DATABASE RECORD: 310959
ITEM NUMBER: E2EGK

SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/09/03
RESPONSE TRACKING: Z107-13 Z2877 Z3468

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/09/03
RESPONSE: THE FOLLOWING DATA CIRCUITS WILL BE PROVIDED:

REF	CIRCUIT NO.	FROM	TO
E2.1	6TVM4514	TEL4 119	MILA 113
	6TVM4515	MILA 113	TEL-4 119

RESPONSE TRACKING: Z107-13 Z2877 Z3468 Z9307

[PRD] DATABASE RECORD: 311187 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/05/89
INITIAL DATE: 09/05/89
ITEM NUMBER: T4GK DATE LAST CHANGED: 01/16/07
SECTION: 2755 TIME LAST CHANGED: 10:34:21

REQUESTER: JSC
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20007S 20017S 20026S 20028S
TRACKING NO. KING2001 L2605 L2840 L907-12 L908-7
R109-45 R2809 R3417 R3455 SCRUB06

1. DESCRIPTION: ORBITER PCMMU HIGH DATA RATE

PROVIDE A DATA CIRCUIT FOR TRANSMISSION OF
ORBITER PCMMU HIGH RATE DATA FROM LCC-39 TO JSC.

NOTE: FOR OMI S0044, THE ORBITER PCMMU DATA WILL BE
SIMULATED AND WILL GO FROM THE KSC ORBITER
SIMULATOR TO MILA.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 311187
ITEM NUMBER: T4GK

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/12/89
RESPONSE TRACKING: Z26109 Z26110 Z28114 Z3431 Z3438

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/05/89
RESPONSE: FOR INFO ONLY:
THE FOLLOWING DATA CIRCUITS WILL BE PROVIDED:

REF	CIRCUIT NO.	FROM	TO	REMARKS
T4.1	6TVM1730	LCC 3P15	MILA 106	PCMMU HDR ORBITER

RESPONSE TRACKING: Z2668 Z28114 Z3438

[PRD] DATABASE RECORD: 8866 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/24/99
INITIAL DATE: 09/15/89
ITEM NUMBER: K6GK DATE LAST CHANGED: 01/04/07
SECTION: 2755 TIME LAST CHANGED: 11:34:08

REQUESTER: KSC
SUBREQUESTER: NE-E NE-O
TEST CODE: DFRC EAFB S0026.200 S0026.300
S5022.200 S6009 STSALL WSSH

ASSOCIATED DOC: 20017S 20026S 20027S 25009S
25022S
TRACKING NO. DB98 GSFCREV06 KING2001 L3402 L3906
L4314 R109-45 R2809 R8307 R9902
PRIORITY: MANDATORY
RATIONALE: MANDATORY PER LAUNCH COMMIT CRITERIA.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 8866
ITEM NUMBER: K6GK

1. DESCRIPTION: S-BAND PM DL

PROVIDE CIRCUIT FOR DISTRIBUTION OF THE S-BAND
PM DL DATA AS FOLLOWS:

REF	TYPE OF SERVICE	FROM	TO	REMARKS
1		MILA 106	LCC 3P15	

REF FLS2200, ITEM KH23GKS, DBR 376761

TECH CONTACT: REF 1, PETER JOHNSON/NE-E3/321 861-3863

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/30/99
RESPONSE TRACKING: Z3443 Z3944 Z4340 Z8309 Z9904

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/24/99
RESPONSE: WILL PROVIDE THE FOLLOWING CIRCUITS:

REF	CIRCUIT NO.	FROM	TO	REMARKS
1	(1) 6TVM1726	MILA 106	LCC 3P15	STDN/LPS S-BAND PM D/L2
	(2) 6TVM4096	MILA 106	CDSC 103	STDN/LPS S-BAND PM D/L1
	(3) 6TVM4097	CDSC 103	LCC 3P15	

RESPONSE TRACKING: Z3443 Z3944 Z4007 Z4340 Z8309
Z9902

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 8866
ITEM NUMBER: K6GK

[PRD] DATABASE RECORD: 312089 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/26/97
INITIAL DATE: 07/31/89
ITEM NUMBER: K7GK DATE LAST CHANGED: 12/01/06
SECTION: 2755 TIME LAST CHANGED: 13:40:13

REQUESTER: KSC
SUBREQUESTER: NE-O
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20009S 20017S 20028S
20044S
TRACKING NO. DB98 GSFCREV06 KING2001 L3402 L3906
L4314 R109-45 R2809 R8307 R9902
PRIORITY: MANDATORY
RATIONALE: MANDATORY PER LAUNCH COMMIT CRITERIA

1. DESCRIPTION: S-BAND FM

PROVIDE A CIRCUIT FOR DISTRIBUTION OF S-BAND
FM DATA FROM MILA, RM 106 TO LCC, RM 2P17.

POINT OF CONTACT: DEBBIE AWTONOMOW/PH-I2/321-861-3972

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/26/97
RESPONSE TRACKING: Z3443 Z3944 Z4340 Z8309 Z9904

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/26/97
RESPONSE: WILL PROVIDE THE FOLLOWING CIRCUITS:

REF	CIRCUIT NO.	FROM	TO	REMARKS
- -	- - - - -	- - - -	- - - -	- - - - - - - - -

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 312089
ITEM NUMBER: K7GK

K7.1 6TVM1729 MILA 106 LCC 2P17 STDN/LPS S-BAND FM

RESPONSE TRACKING: Z3443 Z3944 Z4007 Z4340 Z8309
Z9902

[PRD] DATABASE RECORD: 312835 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/20/97
INITIAL DATE: 02/06/89
ITEM NUMBER: K10GK DATE LAST CHANGED: 12/01/06
SECTION: 2755 TIME LAST CHANGED: 13:40:13

REQUESTER: KSC
SUBREQUESTER: NE-O
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20017S
TRACKING NO. GSFCREV06 KING2001 L2920 R8307 SCRUB06

1. DESCRIPTION: LPS UPLINK COMMAND

PROVIDE A CIRCUIT FOR LPS UPLINK COMMAND
DATA FROM THE LCC, RM 3P15 TO MILA, RM 113.

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/20/97
RESPONSE TRACKING: Z28115 Z2971 Z8309

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/15/97
RESPONSE: KICS-109 WILL PROVIDE THE FOLLOWING CIRCUITS.

REF	CIRCUIT NO.	FROM	TO	REMARKS
K10.1	6TVM4094	LCC 3P15	CDSC 103	STDN/LPS U/L CMD

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 312835
ITEM NUMBER: K10GK

6TVM4095 CDSC 103 MILA 113

RESPONSE TRACKING: Z2971 Z8309 Z8421

[PRD] DATABASE RECORD: 313563
DOCUMENT ID: LLS
ITEM NUMBER: KTY12EK
SECTION: 2755

REQUIREMENT STATUS: APPROVED
APPROVAL DATE: 11/22/96
INITIAL DATE: 12/13/90
DATE LAST CHANGED: 12/14/06
TIME LAST CHANGED: 09:10:56

REQUESTER:	KSC	JSC		NASA HQ
SUBREQUESTER:	FR3/4	I-PH-B	KSC/MK	KSC/TA-E-A
	KSC/USK-110	KSC/XA-E1		
TEST CODE:	EAFB	KSC	STSALL	WSSH
	WX			

ASSOCIATED DOC:	20004S	20007S	20008S	20014S	
	20017S	20026S	20027S	20028S	
	25001S	25111V	25214A		
TRACKING NO.	COMREV05	KING2001	L2607	L2618	L2718
	L3929	MK98	R109-45	R26209	R3908
	R8106	SCRUB06	SHAW95		

1. DESCRIPTION: WEATHER VISION (L-5 HOURS)

PROVIDE CIRCUITS FOR DISTRIBUTION OF WEATHER VISION TV FOR DISPLAY OF RWO WEATHER CHARTS.

REF.	TYPE OF SERVICE	FROM	TO	REMARKS
K1	OTV	ROCC/RWO	X-Y BLDG.	FOR EXT. TO CDSC
K2			LRCC/SOC	NASA PROJ. CONSOLE
K3			ROCC	NASA MGT. CONSOLE
K4			ROCC	NASA R/S REP CONSOLE
T5		CCAFS XY	LACB 4	
T6			LACB 5	
T7			LCC/1P9	
TK8			LCC4	MON. 034 BEHIND CONSOLE AA-4

CONTINUED

[PRD] DATABASE RECORD: 313563
ITEM NUMBER: KTY12EK

T9	LCC4	OSR
TK10	LCC3	MON. 194 BEHIND CONSOLE AA-4
T12	LCC3	OSR
T13	O&C/3267	ASTRONAUT QUARTERS
Y14	O&C 1144	MISSION BRIEFING ROOM
K15	VABR 100	BCDS (REQUESTER USK-110)
K16	M6-306 6030	VIC EDUCATION GLDC

POINT OF CONTACT: BILL HAASE/TA-E-A/321 494-9163
RANDY SEGERT/MK/321 867-8250

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/10/96
RESPONSE TRACKING: Z26102 Z26142 Z2665 Z2748 Z3910
Z3964 Z6923 Z8119

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/22/96
RESPONSE: FOR INFO ONLY:
KICS-109 WILL PROVIDE THE FOLLOWING CIRCUIT:

REF	CIRCUIT NO	FROM	TO	REMARKS
T6-K15	6TVC2077	CCAFS XY	LCC,1P2 (LOCAL DIST) O&C 3267 LACB 4&5 O&C 1144 VABR 100	WEATHER VISION TV

RESPONSE TRACKING: Z26102 Z26196 Z2655 Z2748 Z2766
Z3910 Z3920 Z3964 Z6925 Z7303
Z8110

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 313563
ITEM NUMBER: KTY12EK

[PRD] DATABASE RECORD: 313853 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/17/90
INITIAL DATE: 12/17/90
ITEM NUMBER: T13KT DATE LAST CHANGED: 06/05/07
SECTION: 2755 TIME LAST CHANGED: 13:46:24

REQUESTER: JSC
SUBREQUESTER: JSC/CA4
TEST CODE: STSALL TVPLAN

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 L03-1-1 L2605 L2949 L2968
L3003 L3618 L902-12 L903-2 L908-7
R109-45 R3417

1. DESCRIPTION: MCC TV DISPLAY

PROVIDE CIRCUITRY FOR DISPLAY OF MCC TV AS FOLLOWS:

1K. KSC PROVIDE CIRCUITRY FROM THE SATELLITE INTERFACE TO:
A. CREW QUARTERS (O&C BLDG) FOR THE WX CREW BRIEFING AT T-17 HOURS AND AT T-6 HOURS FOR THE TANKING BRIEFING.
B. LCC ROOM 4R23A OR OSB II ROOM 5109 AS APPLICABLE AT L-10 HOURS AND 20 MIN. FOR MISSION MGMT TEAM WX BRIEFING FOR THE TANKING TEST.
C. OSB II ROOM 5109 FOR THE MMT L-2 DAYS AND L-1 DAY WEATHER BRIEFING TO THE MISSION MGMT TEAM.

2T. JSC PROVIDE MCC TV VIA SATELLITE TO KSC FOR THE ABOVE TIMES.

NOTE: JSC WILL SCHEDULE SATELLITE.

REF: LLS2800, ITEM T53K, DBR 016806.

COORDINATION: B. MCARTHUR/JSC-CA7/281 483-2833
RANDALL SEGERT/KSC-MK-SIO/321 867-8250
RAY BANKS/JSC/MT3/281 280-6971

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 313853
ITEM NUMBER: T13KT

SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/18/99
RESPONSE: KSC INFO ONLY:
CSOC-109 WILL PROVIDE THE FOLLOWING CIRCUITS;

REF	CIRCUIT NO.	FROM	TO	REMARKS
1K.	6TVC2050	CDSC 102	CDSC 103	JSC VIDEO DATA DIS-PLAY VIA GE SATELLITE
	6TVM2087	CDSC 103	O&C 3267	
	6TVM2274	CDSC 103	ROOM 5109	OSB II

RESPONSE TRACKING: Z2668 Z29102 Z3015 Z3615 Z3920
Z3936 Z9307

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/17/90

[PRD] DATABASE RECORD: 526269 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/15/97
INITIAL DATE: 05/18/94
ITEM NUMBER: T13.1KT DATE LAST CHANGED: 06/05/07
SECTION: 2755 TIME LAST CHANGED: 13:46:44

REQUESTER: JSC
TEST CODE: STSALL

ASSOCIATED DOC: 20028S
TRACKING NO. KING2001 L405-1 L8409 R109-45 R6544

1. DESCRIPTION: MCC TV DISPLAY FOR WEATHER BRIEFING

PROVIDE CIRCUITRY FOR DISPLAY OF MCC TV FOR WX BRIEF AS FOLLOWS:

1K. KSC PROVIDE CIRCUITRY FROM THE SATELLITE INTERFACE TO:

CREW QUARTERS (O&C BLDG) AT LANDING -6 HOURS FOR PRE-LANDING

CONTINUED

[PRD] DATABASE RECORD: 526269
ITEM NUMBER: T13.1KT

WEATHER BRIEFING.

2T. JSC PROVIDE MCC TV VIA SATELLITE TO KSC FOR THE ABOVE TIME.

NOTE: JSC WILL SCHEDULE SATELLITE.

COORDINATION: B. MCARTHUR/JSC-CA7/281 483-2833
RANDALL SEGERT/KSC-MK/321 867-8250
JOE AQUINO/JSC/DV/281 483-4033

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/18/99
RESPONSE: KSC INFO ONLY
USK-109 WILL PROVIDE THE FOLLOWING CIRCUITS:

REF	CIRCUIT NO.	FROM	TO	REMARKS
1K.	6TVC2050	CDSC 102	CDSC 103	JSC VIDEO DISPLAY VIA SATELLITE
	6TVM2087	CDSC 103	O&C 3267	CREW QUARTERS

RESPONSE TRACKING: Z6535 Z8421 Z9307

SUPPLIER: JSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/15/97
RESPONSE TRACKING: Z6535 Z8421

[PRD] DATABASE RECORD: 316726 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/07/91
INITIAL DATE: 03/07/91
ITEM NUMBER: T16GKT DATE LAST CHANGED: 11/16/06
SECTION: 2755 TIME LAST CHANGED: 07:13:23

REQUESTER: JSC
SUBREQUESTER: JSC/MO3
TEST CODE: RTLS STSALL TVPLAN

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 316726
ITEM NUMBER: T16GKT

ASSOCIATED DOC: 20007S 20028S
TRACKING NO. GSFCREV06 KING2001 L06-10-1 L103-1 L2605
L3128 L3138 L3705 L908-7 R0610-2
R109-45 R26132 R3417

1. DESCRIPTION: LAUNCH AREA VIDEO TO JSC - NASA SELECT

PROVIDE LAUNCH AND LANDING AREA VIDEO AS INDICATED BELOW:

REF	TYPE OF SERVICE	FROM	TO	REMARKS
T1	VIDEO	KSC	JSC/MCC	EXTEND NASA SELECT VIDEO TO JSC VIA AMERICOM GOVT SERVICES (AGS)

POINT OF CONTACT: JSC/MO3-USA/RAY BANKS/281-483-8233

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/07/91
RESPONSE TRACKING: Z3174 Z3416 Z3431 Z3708

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/18/99
RESPONSE: FOR INFO:
KICS-109 WILL PROVIDE THE FOLLOWING CIRCUIT:

REF	CIRCUIT NO	FROM	TO	REMARKS
T16.1	6TVM2112	KSCNF 109	CDSC 103	NASA SELECT VIDEO

RESPONSE TRACKING: Z2652 Z2668 Z3174 Z3438 Z3708

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 316726
ITEM NUMBER: T16GKT

RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/07/91
RESPONSE TRACKING: Z3166 Z3174 Z3438 Z3708

[PRD] DATABASE RECORD: 21696 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/06/94
INITIAL DATE: 03/07/91
ITEM NUMBER: T16.0.1GKT DATE LAST CHANGED: 11/16/06
SECTION: 2755 TIME LAST CHANGED: 07:13:16

REQUESTER: JSC
SUBREQUESTER: JSC/MO3 MER
TEST CODE: RTLS STSALL TVPLAN

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 L06-10-1 L103-1 L103-4 L3138
L3705 L3732 L5919 R0610-2 R109-45

1. DESCRIPTION: LAUNCH AREA VIDEO TO JSC - PAD OTV CAMERAS

EXTEND LC39 VIDEO VIA MUX SYSTEM TO JSC AND PROVIDE A REMOTE CONTROL VIDEO SWITCH CIRCUIT.

THE KSC OTV CIRCUIT HAS THE CAPABILITY TO BE SWITCHED AT KSC BY JYVO OR REMOTELY BY MER PERSONNEL. THE REMOTE CONTROL CIRCUIT ALLOWS JSC MER PERSONNEL TO SELECT VARIOUS LC39 CAMERAS AS REQUIRED.

THE VIDEO REMOTE CONTROL CIRCUIT IS ROUTED VIA THE KSC-JSC MER TRANSMISSION SYSTEM (LPS).

REF LLS2734, ITEM T14GKT, DBR 013959.

TECH CONTACT: JSC/MO3-USA/RAY BANKS/281-483-8233

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/06/94

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 21696
ITEM NUMBER: T16.0.1GKT

RESPONSE TRACKING: Z3174 Z3708 Z3734 Z5922

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/19/98
RESPONSE: INFO ONLY:

CIRCUIT NUMBER	FROM	TO	REMARKS
2CLM3584	LCC 2P2	LCC 4R10	CONTROL CKT VIA MER
6TVM2164	LCC 1P2	CDSC 103	LC-39 TV VIA GE2-XPDRS

RESPONSE TRACKING: Z3174 Z3708 Z3734 Z5922 Z6212

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/06/94
RESPONSE TRACKING: Z3174 Z3708 Z3734 Z5922

[PRD] DATABASE RECORD: 19100 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/12/96
INITIAL DATE: 05/14/90
ITEM NUMBER: H16.2GK DATE LAST CHANGED: 11/16/06
SECTION: 2755 TIME LAST CHANGED: 07:13:15

REQUESTER: MSFC
SUBREQUESTER: MS216 MS242
TEST CODE: TVPLAN

ASSOCIATED DOC: 20007S 20008S 20009S 20014S
20017S 20037S 25009S
TRACKING NO. KING2001 L103-1 L2846 L3534 L4214
L7601 L7801 ML012-90 R109-45 RSRR105
SCRUB06 SHAW95
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 19100
ITEM NUMBER: H16.2GK

1. DESCRIPTION: LAUNCH AREA VIDEO TO MSFC

PROVIDE LAUNCH AREA OTV AS INDICATED BELOW:

EXTEND VIA SWITCHABLE SYSTEM OTV PAD CAMERAS TO MSFC AND PROVIDE CONTROL CIRCUIT TO REMOTELY SWITCH KSC OTV FROM THE HOSC. THE VIDEO REMOTE CONTROL CIRCUIT WILL ALLOW MSFC TO SELECT CAMERA SCENES FROM THE KSC OTV SYSTEM.

THE VIDEO REMOTE CONTROL CIRCUIT IS ROUTED VIA THE TRANSPORT MANAGEMENT SYSTEM (TMS).

NOTE 1: REFER TO LLS SEC. 2700, ITEM H17GK, DBR 227709.

POINT OF CONTACT: PHILIP CAUTHEN/EO60/256-544-4204

TECHNICAL CONTACT: SCOTT SCHUTZENHOFER/MP71/256-544-8496

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/19/96
RESPONSE TRACKING: Z28119 Z3536 Z4242 Z6906 Z7601
Z7904

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/27/96
RESPONSE: FOR INFO ONLY: VIDIO CIRCUIT # 6TVM2039
CONTROL CIRCUIT # 2CLM3576

RESPONSE TRACKING: Z3428 Z3536 Z4242 Z6928 Z7303
Z7706 Z7909

[PRD] DATABASE RECORD: 317129 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/27/95
INITIAL DATE: 07/18/88
ITEM NUMBER: K17E DATE LAST CHANGED: 12/14/06

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 317129
ITEM NUMBER: K17E

SECTION: 2755 TIME LAST CHANGED: 09:13:57

REQUESTER: KSC
SUBREQUESTER: KSC/TA-E-A
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 KING2001 L5727 MK98 R109-45
R26209 R4218 SCRUB06 SHAW95
PRIORITY: REQUIRED
RATIONALE: ALTERNATE COMMUNICATION SOURCE AVAILABLE.

1. DESCRIPTION: FCO PROGRAM TV (L-2 HOURS)

PROVIDE A CIRCUIT FOR TRANSMISSION OF FCO PROGRAM TV DATA AS FOLLOWS:

REF	TYPE OF SERVICE	FROM	TO	REMARKS
K17.1			CCAFS/ROCC	NASA MGMT CONSOLE
K17.2			CCAFS/ROCC	NASA R/S REP CONSOLE

POINT OF CONTACT: BILL HAASE/TA-E-A/321-494-9163

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/22/95
RESPONSE TRACKING: Z26142 Z2686 Z4225 Z5734 Z6923

[PRD] DATABASE RECORD: 317345 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/27/95
INITIAL DATE: 07/18/88
ITEM NUMBER: K18E DATE LAST CHANGED: 03/08/06
SECTION: 2755 TIME LAST CHANGED: 07:14:47

REQUESTER: KSC
SUBREQUESTER: TA-E

CONTINUED

[PRD] DATABASE RECORD: 317345
ITEM NUMBER: K18E

TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 KING2001 MK98 R109-45 R26209
R4218 SHAW95
PRIORITY: REQUIRED
RATIONALE: ALTERNATE COMMUNICATION SOURCE AVAILABLE.

1. DESCRIPTION: FCO FLIGHTLINE TV (L-2 HOURS)

PROVIDE A CIRCUIT FOR TRANSMISSION OF FCO FLIGHTLINE TV AS FOLLOWS:

REF	TYPE OF SERVICE	FROM	TO	REMARKS
K18.1			CCAFS/ROCC	NASA MGMT CONSOLE
K18.2			CCAFS/ROCC	NASA R/S REP CONSOLE

POINT OF CONTACT: BILL HAASE/TA-E/321-494-9163

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/22/95
RESPONSE TRACKING: Z26142 Z2686 Z4225 Z6923

[PRD] DATABASE RECORD: 317827 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/07/91
INITIAL DATE: 02/07/91
ITEM NUMBER: T19GK DATE LAST CHANGED: 11/16/06
SECTION: 2755 TIME LAST CHANGED: 07:13:23

REQUESTER: JSC
TEST CODE: KSC S6009 STSALL TVPLAN

ASSOCIATED DOC: 20007S 20014S 20017S 20028S
TRACKING NO. GSFCREV06 KING2001 L3906 R109-45 R26132

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 317827
ITEM NUMBER: T19GK

SCRUB06
PRIORITY: REQUIRED
RATIONALE: LANDING SUPPORT

1. DESCRIPTION: ORBITER VEHICLE TV

PROVIDE A CIRCUIT FOR TRANSMISSION OF ORBITER VEHICLE TV
AS FOLLOWS:

REF	TYPE OF SERVICE	FROM	TO	REMARKS
T19.1	ORBITER TV	MILA	CDSC 103	FOR EXT TO GRND STA FOR RELAY TO JSC.

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/07/91
RESPONSE TRACKING: Z2697 Z3944

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/22/96
RESPONSE: KICS-109 WILL PROVIDE THE FOLLOWING CIRCUIT:

REF	CIRCUIT NO.	FROM	TO	REMARKS
T19.1	6TVC1719	MILA 106	CDSC 103	STDN OBTV1 VIA SN2-5 SATELLITE TO JSC

RESPONSE TRACKING: Z2652 Z3944 Z6212 Z8110

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 318080 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/31/89
INITIAL DATE: 07/31/89
ITEM NUMBER: G20X DATE LAST CHANGED: 03/20/07
SECTION: 2755 TIME LAST CHANGED: 13:16:15

REQUESTER: GSFC
SUBREQUESTER: GSFC/700 GSFC450
TEST CODE: EAFB STSALL TVPLAN

ASSOCIATED DOC: 20026S
TRACKING NO. COMREV05 KING2001 L2841 R109-45 R26132
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: DFRC VIDEO CABLE FOR SATELLITE TV

GSFC NISN PROVIDES COMMON CARRIER SATELLITE TELEVISION SERVICE FOR NASA SELECT TRANSMIT AND RECEIVE AT DFRC. REF LLS2736 ITEM T7G DBR 003533. THE CARRIER-TO-NASA INTERFACE POINT IS IN BUILDING 4800, ROOM 2022.

DFRC IS REQUESTED TO PROVIDE EXISTING 124-OHM VIDEO CABLES BETWEEN THE CARRIER EARTH STATION AND BUILDING 4800, ROOM 2022 FOR THE CARRIER TO USE IN REACHING THE INTERFACE POINT. THE CARRIER WILL PROVIDE, INSTALL, AND MAINTAIN THE NECESSARY ELECTRONIC LINE DRIVER EQUIPMENT.

124-OHM PAIRS ARE NEEDED FOR VIDEO TRANSMIT, VIDEO RECEIVE, AND FOR MULTIPLEXED TWO-WAY AUDIO.

TECHNICAL CONTACT: GSFC/450.0/MIKE ALLEN/301 902-6012

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/31/89
RESPONSE TRACKING: Z2649 Z28115

[PRD] DATABASE RECORD: 319808 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/21/98
INITIAL DATE: 02/15/91
ITEM NUMBER: EDK24EK DATE LAST CHANGED: 05/31/07

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 319808
ITEM NUMBER: EDK24EK

SECTION: 2755 TIME LAST CHANGED: 07:50:08

REQUESTER:	ER	HSFS	KSC	
SUBREQUESTER:	KSC/TA	KSC/TA-E-A	SOC	
TEST CODE:	EAFB	S51E06	STSALL	TVPLAN
	WSSH			
ASSOCIATED DOC:	20007S	20014S	20017S	20026S
	20027S	20028S	25001S	
TRACKING NO.	COMREV05	KING2001	L210-1	L2607	L2718
	L3918	L9503	MK98	R109-45	R26209
	R2755	R2809	R3424	SCRUB06	SHAW95
PRIORITY:	REQUIRED				
RATIONALE:	ALTERNATE COMMUNICATION SOURCE AVAILABLE.				

1. DESCRIPTION: CDSC SWITCHER 8 OUTPUT (L-1 DAY)

PROVIDE CIRCUITS AND TERMINATIONS FOR OUTPUT FROM SWITCHER 8
AS FOLLOWS:

NOTE: 1. RECEIVE VIA COM SATELLITE-JSC VIDEO DISPLAYS.
2. ANY ONE OF THE FOLLOWING 3 INPUTS MAY BE SELECTED AT ANY TIME--JSC VIDEO DISPLAYS, KSCNF PAO SWITCHER OUTPUT, KSC PAD OTV.
3. JSC VIDEO TO RWO DURING CREW WEATHER BRIEFING AT L-1 DAY AND L-3 HR & 40 MIN.

REF	TYPE OF SERVICE	FROM	TO	REMARKS
DE1K	OTV	KSC/CDSC	CCAFS/XY	NOTE: 1,2,3
E2E		CCAFS/XY	ROCC/RWO	NOTE: 3
K3E		CCAFS/XY	ROCC	NASA MGT CONSOLE, NASA R/S REP CONSOLE NOTE:2
K4E		CCAFS/XY	ROCC/EEC	2 CONSOLES NOTE:2
KD5E		CCAFS/XY	ROCC/LRCC	FOR TERM ON: 1. DOD SOC CONSOLE

CONTINUED

[PRD] DATABASE RECORD: 319808
ITEM NUMBER: EDK24EK

2. NASA PROJ CON
NOTE:2

POINT OF CONTACT: BILL HAASE/TA-E-A/321-494-9163

TECHNICAL CONTACT: (D) HSFS-O/JAY SUMMERS/321-494-8581
BURT SUMMERFIELD/TA/321 861-4598

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/26/98
RESPONSE TRACKING: Z26142 Z2665 Z2748 Z3415 Z3955
Z6923 Z9511

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 01/18/99
RESPONSE: FOR INFO ONLY:
KICS-109 WILL PROVIDE ONE OF THE FOLLOWING THREE SETS OF CIRCUITS:

REF	CIRCUIT NO.	FROM	TO	REMARKS
KD1K	6TVC2050	CDSC 102	CDSC 103	JSC VIDEO DISPLAYS
	6TVC2083	CDSC 103	CCAFS XY	
	6TVM2038	LCC 1P2	CDSC 103	PAD OTV
	6TVC2083	CDSC 103	CCAFS XY	
	6TVM2112	KSCNF109	CDSC 103	NASA SELECT VIDEO
	6TVC2083	CDSC 103	CCAFS XY	

RESPONSE TRACKING: Z26196 Z2655 Z2748 Z3415 Z6928
Z7303 Z9307 Z9511 ZZ3955

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 320017 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/27/95
INITIAL DATE: 02/15/91
ITEM NUMBER: EDK25EK DATE LAST CHANGED: 05/31/07
SECTION: 2755 TIME LAST CHANGED: 07:51:34

REQUESTER: ER HSFS KSC
SUBREQUESTER: KSC/TA-E-A SOC
TEST CODE: EAFB STSALL TVPLAN WSSH

ASSOCIATED DOC: 20007S 20014S 20017S 20026S
20027S 20028S 25001S
TRACKING NO. COMREV05 KING2001 L210-1 L2607 L2618
L2718 L3918 MK98 R109-45 R26209
R2809 R3424 SCRUB06
PRIORITY: REQUIRED
RATIONALE: ALTERNATE COMMUNICATION SOURCE AVAILABLE.

1. DESCRIPTION: CDSC SWITCHER 7 OUTPUT (L-1 DAY)

PROVIDE CIRCUITS AND TERMINATIONS FOR OUTPUT FROM SWITCHER 7
AS FOLLOWS:

NOTE: 1. RECEIVE VIA COM SATELLITE - JSC VIDEO DISPLAYS.
2. ANY ONE OF THE FOLLOWING THREE INPUTS MAY BE SELECTED
AT ANY TIME: JSC VIDEO DISPLAYS, KSCNF PAO SWITCHER
OUTPUT, KSC PAD OTV.

REF	TYPE OF SERVICE	FROM	TO	REMARKS
KD1K	OTV	KSC/CDSC	CCAFS/XY	NOTE:1,2
K2E		CCAFS/XY	ROCC	FOR NASA MGT CON., NASA R/S REP CONSOLE NOTE:2

POINT OF CONTACT: BILL HAASE/TA-E-A/321-494-9163

TECHNICAL CONTACT: (D) HSFS-O/JAY SUMMERS/321-494-8581

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 320017
ITEM NUMBER: EDK25EK

SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/22/95
RESPONSE: CIRCUIT 1TVC2079

RESPONSE TRACKING: Z26102 Z26185 Z26192 Z2665 Z2748
Z2923 Z3415 Z3955

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 01/18/99
RESPONSE: FOR INFO ONLY:
USK-109 WILL PROVIDE ONE OF THE FOLLOWING THREE SETS OF CIRCUITS:

REF	CIRCUIT NO.	FROM	TO	REMARKS
KD1K	6TVC2050	CDSC 102	CDSC 103	JSC VIDEO DISPLAY
	6TVC2079	CDSC 103	CCAFS XY	
	6TVM2038	LCC 1P2	CDSC 103	PAD OTV
	6TVC2079	CDSC 103	CCAFS XY	
	6TVM2112	KSCNF109	CDSC 103	NASA SELECT VIDEO
	6TVC2079	CDSC 103	CCAFS XY	

RESPONSE TRACKING: Z26102 Z2655 Z2748 Z3415 Z3955
Z6928 Z7303 Z9307

[PRD] DATABASE RECORD: 320390
DOCUMENT ID: LLS
ITEM NUMBER: K27GK
SECTION: 2755

REQUIREMENT STATUS: APPROVED
APPROVAL DATE: 11/12/97
INITIAL DATE: 09/18/89
DATE LAST CHANGED: 11/16/06
TIME LAST CHANGED: 07:13:23

REQUESTER: KSC
SUBREQUESTER: I-IT-D2-B KICS-700
TEST CODE: STSALL
TRACKING NO. DB98 GSFCREV06 KING2001 L3401 L8714
R109-45

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 320390
ITEM NUMBER: K27GK

PRIORITY: REQUIRED
RATIONALE: DATA FROM MILA TO PCC TO DETERMINE WHICH CAMERAS ARE REQUIRED FOR LANDING OR RTLS.

1. DESCRIPTION: ORBITER ACQUISTION DATA

PROVIDE CIRCUIT FOR DATA AS FOLLOWS:

REF	TYPE OF SERVICE	FROM	TO	REMARKS
K27.1	ORBITER ACQUISITION DATA	MILA TK DATA PROCESSING SYS *	CONSOLE D RM 3062 PCC	2 CLM 402 2 CLM 403
K27.2	ORBITER ACQUISITION DATA	MILA TK DATA PROCESSING SYS **	CONSOLE D RM 3062 PCC	2 CLM 400 2 CLM 401

* N. TV TWR DATA
** S. TV TWR DATA

NOTE: TDPS EQUIPMENT CAN BE LOCATED IN ROOM 3062, PCC.

POINT OF CONTACT: CHUCK BROWN/IT-B2-C/321-867-2090

TECHNICAL CONTACTS: REQUESTER/R. ROBINSON/KICS-700/321 853-5386
SUPPLIER/ROD THORNTON/KICS-105
VOICE COMM/321 867-2241

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/12/97
RESPONSE TRACKING: Z3448 Z8725

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-B KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/12/97

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 320390
ITEM NUMBER: K27GK

RESPONSE TRACKING: Z3448 Z8725

[PRD] DATABASE RECORD: 320604 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/26/89
INITIAL DATE: 06/26/89
ITEM NUMBER: E28EGK DATE LAST CHANGED: 11/16/06
SECTION: 2755 TIME LAST CHANGED: 07:13:23

REQUESTER: ER
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 GSFCREV06 KING2001 R109-45 R2893

1. DESCRIPTION: RANGE SAFTEY TELEMETRY (2.4 KBS)

NOTE: PROVIDE FOR DATA TRANSMISSION OVER TWO 2.4 KBS CIRCUITS (FROM MILA) OF ANY TWO OF THE FOLLOWING DATA SOURCES: MILA/PDL, AND WFF (WHEN DIRECTED).

REF	TYPE OF SERVICE	FROM	TO	REMARKS
E28.1	RANGE SAFETY TM (2.4KBS)	MILA	CDSC	EXT TO CCAFS
E28.2		CDSC	CCAFS/XY	FOR DIST TO (1) CCC (2) ROCC, FCO R/T DISPLAY

REFERENCE: SECT LLS 2200 ITEM E16G DBR 336600

POINT OF CONTACT: MIKE CAMPBELL/321-494-5101

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/26/89
RESPONSE: INFO - CIRCUITS 33 KEN 3901/3902.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 320604
ITEM NUMBER: E28EGK

RESPONSE TRACKING: Z2877

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA PDL WFF
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/07/89
RESPONSE TRACKING: Z2877

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/10/89
RESPONSE: CIRCUITS 2DAC020, 2DAC021

RESPONSE TRACKING: Z2877

[PRD] DATABASE RECORD: 223405 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/23/91
INITIAL DATE: 04/23/91
ITEM NUMBER: G31EGK DATE LAST CHANGED: 11/16/06
SECTION: 2755 TIME LAST CHANGED: 07:13:19

REQUESTER: GSFC
SUBREQUESTER: GSFC/700
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 GSFCREV06 KING2001 L3960 MK98
R109-45
PRIORITY: MANDATORY
RATIONALE: MISSION SUCCESS

1. DESCRIPTION: MIL TRK/TLM SPARE FOR R/S (2.4 KBS)

PROVIDE CIRCUIT AND TERMINATIONS AS FOLLOWS:

NOTE: 1. SPARE CIRCUIT FOR BACKUP OF TWO MILA/ROCC R/S CIRCUITS.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 223405
ITEM NUMBER: G31EGK

REF	TYPE OF SERVICE	FROM	TO	REMARKS
G31.1	R/S DATA	MILA	CDSC	
G31.2	R/S DATA	CDSC	XY	FOR EXT TO ROCC

TECH CONTACT: MILA/MELISSA BLIZZARD/321 867-1068

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/23/91
RESPONSE TRACKING: Z2843 Z39104

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/23/91
RESPONSE TRACKING: Z2843 Z39104

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/23/91
RESPONSE: CIRCUIT #2DAC023

RESPONSE TRACKING: Z2843 Z39104

[PRD] DATABASE RECORD: 224056 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/09/03
INITIAL DATE: 08/27/90
ITEM NUMBER: GTH33GHKT DATE LAST CHANGED: 11/16/06
SECTION: 2755 TIME LAST CHANGED: 07:13:19

REQUESTER: GSFC JSC MSFC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 224056
ITEM NUMBER: GTH33GHKT

TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 GSFCREV06 KING2001 L107-2 L2604
L3516 L3569 L908-7 R109-45 R114-1
R3417 R3446

1. DESCRIPTION: LAUNCH AREA TIMING

PROVIDE TIMING CIRCUIT AS FOLLOWS:

REF	TYPE OF SERVICE	FROM	TO	REMARKS
T1K	TIMING	LC-39	CDSC	FOR EXT TO JSC, GSFC & MSFC.
G2G		CDSC	MILA/GSFC NIC/NASA HQS	
G3G		GSFC	WLPS	
H4GH		CDSC	MSFC	DIRECT FOR LOCAL DIST AND MICHOUD

TECH CONTACT: KSC/ROD THORNTON/321 861-2241
GSFC/AL DUANY/301 286-2721
WLPS/A. SCHONBRUNNER/804 824-1224

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/09/03
RESPONSE TRACKING: Z107-13 Z3431 Z3523 Z3591 Z3991

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/29/03

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 224056
ITEM NUMBER: GTH33GHKT

RESPONSE TRACKING: Z114-1

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/13/03
RESPONSE TRACKING: Z3431 Z3523 Z3591

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/09/03
RESPONSE TRACKING: Z107-12 Z107-13 Z26121 Z3431 Z3523
Z3591

[PRD] DATABASE RECORD: 224708 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/13/90
INITIAL DATE: 07/13/90
ITEM NUMBER: E34K DATE LAST CHANGED: 04/13/07
SECTION: 2755 TIME LAST CHANGED: 10:38:42

REQUESTER: ER
TEST CODE: S0009.101 STSALL

ASSOCIATED DOC: 20007S 20009S 20014S 20017S
TRACKING NO. COMREV05 KING2001 L3822 R109-45 R2893

1. DESCRIPTION: KSC SV FIRST MOTION INDICATION

PROVIDE TIMING CIRCUITS AS FOLLOWS:

REF	TYPE OF SERVICE	FROM	TO	REMARKS
E34.1	TIMING	LC-39/2P22	CCAFS/ROCC	CENTRAL TIMING

POINT OF CONTACT: MIKE GAWEL/321-853-8118

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: CSR4222 I-IT-D2-C

CONTINUED

[PRD] DATABASE RECORD: 224708
ITEM NUMBER: E34K

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/17/90
RESPONSE TRACKING: Z2877 Z3832

[PRD] DATABASE RECORD: 225128 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/26/89
INITIAL DATE: 06/26/89
ITEM NUMBER: E35K DATE LAST CHANGED: 12/02/05
SECTION: 2755 TIME LAST CHANGED: 08:25:07

REQUESTER: ER
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20009S 20014S 20017S
TRACKING NO. COMREV05 KING2001 R109-45 R2893

1. DESCRIPTION: KSC SV "COUNT/HOLD" SIGNAL

PROVIDE TIMING CIRCUIT AS FOLLOWS:

REF	TYPE OF SERVICE	FROM	TO	REMARKS
E35.1	TIMING	LC-39/2P22	CCAFS/ROCC	CENTRAL TIMING

POINT OF CONTACT: MIKE GAWEL/321-853-8118

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: CSR4222 I-IT-D2-C

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/06/89
RESPONSE TRACKING: Z2877

[PRD] DATABASE RECORD: 7106 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/05/97
INITIAL DATE: 02/06/89
ITEM NUMBER: K36GK DATE LAST CHANGED: 11/16/06
SECTION: 2755 TIME LAST CHANGED: 07:13:09

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 7106
ITEM NUMBER: K36GK

REQUESTER: KSC
SUBREQUESTER: KSC/NE-E3 KSC/PH-I RPS
TEST CODE: ORBIT S61E01 STSALL

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
TRACKING NO. COMREV05 DB98 GSFCREV06 KING2001 L2920
L7601 L8503 L8506 R109-45 R6517
SCRUB06 SHAW94
PRIORITY: MANDATORY
RATIONALE: ON BOARD VEHICLE DATA DUMP TO RPS FOR MISSION AND LANDING SUPPORT.

1. DESCRIPTION: MISSION DATA DUMP MILA TO KSC/RPS

REF	TYPE OF SERVICE	FROM	TO	REMARKS
K1	TLM DATA	MILA	CDSC	
K2	TLM DATA	CDSC	LCC/RPS	

TECH CONTACT: RENEE HART/USK-669/321 861-0988
PETER JOHNSON/NE-E3/321 861-3863

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/06/97
RESPONSE TRACKING: Z2605 Z2971 Z8507 Z8510

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/06/97
RESPONSE: KICS-109 WILL PROVIDE THE FOLLOWING CIRCUITS:

REF	CIRCUIT NO.	FROM	TO	REMARKS

CONTINUED

[PRD] DATABASE RECORD: 7106
ITEM NUMBER: K36GK

1	6TVM1729	MILA 106	LCC 2R11	1.024MB MSN DUMP TO FR1
2	6TVM4650	MILA 106	LCC 2R11	1.024MB MSN DUMP TO FR3

RESPONSE TRACKING: Z2971 Z6505 Z7706 Z8421 Z8507
Z8510

[PRD] DATABASE RECORD: 8871 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/30/01
INITIAL DATE: 09/17/87
ITEM NUMBER: K38EK DATE LAST CHANGED: 09/19/06
SECTION: 2755 TIME LAST CHANGED: 13:16:54

REQUESTER: KSC
SUBREQUESTER: FR3/4 SA-B
TEST CODE: KSC LCC S6009 STSALL

ASSOCIATED DOC: 20007S 20028S
TRACKING NO. COMREV05 KING2001 L3401 L3906 MK98
R104-2 R109-45 R9307
PRIORITY: REQUIRED
RATIONALE: ALTERNATE COMMUNICATION SOURCE AVAILABLE.

1. DESCRIPTION: ER RADAR TRACK OF SS0 (L-2 HOURS)

PROVIDE CIRCUIT AS FOLLOWS:

REF	TYPE OF SERVICE	FROM	TO	REMARKS
K38.1	TV (AS THE WORLD TURNS & R/S DATA)	ER	FR3/4	CIRCUIT 6TVC400

NOTE: DISPLAY TO BE AVAILABLE FOR LAUNCH FROM T-1HR TO ORBIT INSERTION AND FOR LANDING FROM L-30MIN TO LANDING.

REFERENCE: FLT ITEM K1E SECT 2800 DBR 445416

KSC CONTACT: KSC/SA-B1/DAVE RAINER/321 861-9320

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)

CONTINUED

[PRD] DATABASE RECORD: 8871
ITEM NUMBER: K38EK

SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/23/01
RESPONSE TRACKING: Z104-1 Z3448 Z3944 Z9307

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/30/01
RESPONSE: CIRCUIT 6TVC400

RESPONSE TRACKING: Z3448 Z3944 Z9307

[PRD] DATABASE RECORD: 225463 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/25/90
INITIAL DATE: 01/25/90
ITEM NUMBER: E39K DATE LAST CHANGED: 12/02/05
SECTION: 2755 TIME LAST CHANGED: 08:26:21

REQUESTER: ER
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20009S 20014S 20017S
TRACKING NO. COMREV05 KING2001 L3611 R109-45 R2893

1. DESCRIPTION: KSC/NASA SERIAL COUNTDOWN SIGNAL

PROVIDE CIRCUIT AS FOLLOWS:

REF	TYPE OF SERVICE	FROM	TO	REMARKS
E39.1	TIMING	LCC/2P22	CCAFS/ROCC	CENTRAL TIMING

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: CSR4222 I-IT-D2-C

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/02/90

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 225463
ITEM NUMBER: E39K

RESPONSE TRACKING: Z2877 Z3163

[PRD] DATABASE RECORD: 13833
DOCUMENT ID: LLS
ITEM NUMBER: T43E
SECTION: 2755

REQUIREMENT STATUS: APPROVED
APPROVAL DATE: 02/02/88
INITIAL DATE: 02/02/88
DATE LAST CHANGED: 05/24/06
TIME LAST CHANGED: 09:53:48

REQUESTER: JSC
TEST CODE: STSALL
TRACKING NO. A4501 KING2001 L06-3-2 L201-2 R109-45
R2662 R2671
PRIORITY: MANDATORY
RATIONALE: RANGE SAFETY

1. DESCRIPTION: FAIL SAFE CIRCUIT

PROVIDE AN INDICATOR LIGHT ON RANGE SAFETY CONSOLE TO BE ILLUMINATED/LIT BY SIGNAL, SENT THROUGH FAIL SAFE CIRCUIT FROM JSC GNC CONSOLE. CIRCUIT ACTIVATION (NEED) T-1 HR. THROUGH MECO.

REF.	CIRCUIT#	FROM	TO	REMARKS
T1		JSC/MCC	ER/FCO	GNC CONSOLES 365 AND 487 EXTEND TO ER CONSOLES.

NOTE: 1. TWO (RED GUARD) SWITCHES IN SERIES ON THE GNC CONSOLES MUST BE ACTIVATED IN ORDER TO ILLUMINATE THE LIGHT ON THE ROCC FCO PANEL.

2. SEE LLS 2736, ITEM T15EG, DBR 013834.

TECH CONTACT: JSC/DF611/DAVID GRUBER/281 483-0709

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

CONTINUED

[PRD] DATABASE RECORD: 13833
ITEM NUMBER: T43E

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/29/88

[PRD] DATABASE RECORD: 13952 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/27/03
INITIAL DATE: 08/08/89
ITEM NUMBER: T44EGHKTX DATE LAST CHANGED: 03/20/07
SECTION: 2755 TIME LAST CHANGED: 13:21:48

REQUESTER: JSC
SUBREQUESTER: JSC/MO3
TEST CODE: EAFB JSC KSC RTLS
STSALL TVPLAN WSSH

ASSOCIATED DOC: 20007S 20017S 20020S 20026S
20027S 20028S
TRACKING NO. KING2001 L03-8-5 L06-10-1 L2718 L2721
L4939 L6203 R0610-2 R109-45 R26101
R26173 R26206 R2670 R2809 R2907
R3417 RTF114-9
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: IRIG-B AUDIO WITH TELEVISION VIA SATELLITE

PROVIDE A SECOND AUDIO CHANNEL FOR THE SATELLITE TELEVISION SERVICE (NASA SELECT). FEED IRIG-B AUDIO REPRESENTATION OF TIME CODE ALONG WITH VIDEO FROM EACH REPLAY TRANSMITTED BY SATELLITE. ALSO FEED LIVE IRIG-B AUDIO WITH LIVE VIDEO (AMC-9 TRANSPONDER 5).

T44.1K	KSC	TRANSMIT/REC 0-2 PEAK TO PEAK VU METER.	TWO-WAY CONNECTION BETWEEN THE SATELLITE CARRIER INTERFACE AND RECORDERS IN LCC (1P2) & KSC-NF
T44.2X	DRYDEN	TRANSMIT-ONLY	FROM REPLAYS AT BLDG 4800, RM. 2022, TO THE SATELLITE CARRIER INTERFACE.
T44.3H	MSFC	RECEIVE-ONLY	FROM SATELLITE CARRIER INTERFACE AT BLDG 4207, RM 107, TO VIDEOTAPE RECORDING AREA IN BLDG 4207.

CONTINUED

[PRD] DATABASE RECORD: 13952
ITEM NUMBER: T44EGHKTX

T44.4T	JSC	RECEIVE-ONLY	FROM SATELLITE CARRIER INTERFACE TO MCC VOICE CONTROL, MCC TV CONTROL, AND BLDG 8. CONFIGURE MCC TV CONTROL TO ROUTE THIS IRIG-B SOURCE THROUGH EXISTING TIME CODE RECORDING AND DISPLAY SYSTEMS.
T44.5E	WSSH	TRANSMIT-ONLY	FROM REPLAYS IN TV CONTROL VAN TO THE SATELLITE CARRIER INTERFACE.

NOTES:
1. REFER TO LLS 2736 ITEM T16G DBR 013953
2. REFER TO LLS 2805 ITEM HT28.6EKT DBR 016832
3. IRIG-B AUDIO CAN BE A SOURCE OF CROSSTALK; PROVIDE ADEQUATE ISOLATION FROM OTHER AUDIO/VOICE CIRCUITS.

POINT OF CONTACT: JSC/MO3-USA/RAY BANKS/USH 700E/281 280-6971
JON DISLER/SX3/281 483-5182

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/24/03
RESPONSE TRACKING: Z0311-2 Z26113 Z2950 Z3416 Z4949
Z6203

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/03/03
RESPONSE TRACKING: Z3416 Z3431 Z4942 Z6203 ZRTF114-6

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/28/03
RESPONSE TRACKING: Z26189 Z2950 Z3416 Z4942 Z6203
ZRTF114-6

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 13952
ITEM NUMBER: T44EGHKTX

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/27/03
RESPONSE TRACKING: Z26148 Z2748 Z2910 Z3416 Z4942
Z6203

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/27/03
RESPONSE TRACKING: Z2743 Z2758 Z2910 Z3416 Z4942
Z6203 ZRTF114-4

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/27/03
RESPONSE TRACKING: Z2649 Z2699 Z2936 Z3416 Z4942
Z6203

[PRD] DATABASE RECORD: 16174 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/18/95
INITIAL DATE: 09/12/88
ITEM NUMBER: E49K DATE LAST CHANGED: 12/14/06
SECTION: 2755 TIME LAST CHANGED: 09:19:12

REQUESTER: ER
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 KING2001 L2643 L6905 R109-45
R26270 R26285

1. DESCRIPTION: RANGE SAFETY VIDEO REQUIREMENTS FOR PAD A OR PAD B
LAUNCHES

PROVIDE A CIRCUIT FOR TRANSMISSION OF RANGE SAFETY REAL TIME

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 16174
ITEM NUMBER: E49K

VIDEO DATA FOR PAD A OR B LAUNCHES:

REF	TYPE OF SERVICE	FROM	TO	REMARKS
E1	OTV	PAD PHOTO TRACKER	CCAFS/XY	FOR DISTRIBUTION

POC: ER/MIKE GAWEL/321 853-8118

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/15/97
RESPONSE:
KICS-109 WILL PROVIDE THE FOLLOWING CIRCUIT:
6TVC2285.

RESPONSE TRACKING: Z26184 Z26195 Z7207 Z8421

[PRD] DATABASE RECORD: 16810 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/03/88
INITIAL DATE: 10/03/88
ITEM NUMBER: T52K DATE LAST CHANGED: 10/25/06
SECTION: 2755 TIME LAST CHANGED: 10:00:50

REQUESTER: JSC
SUBREQUESTER: JSC/MO3
TEST CODE: JSC KSC STSALL TVPLAN

ASSOCIATED DOC: 20007S 20014S 20017S
TRACKING NO. KING2001 L06-10-1 L2604 L2718 R0610-2
R109-45 R26136
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: TELEVISION SOURCE SELECTION

CONTINUED

[PRD] DATABASE RECORD: 16810
ITEM NUMBER: T52K

JSC REQUIRES KSC RETAIN THE CAPABILITY TO PATCH THE KSC GROUND AREA TV OUTPUT TO JSC ON SPECIAL REQUEST AND FOR SUPPORT DURING PAD TESTING.

POINT OF CONTACT: JSC/MO3-USA/RAY BANKS/281-483-8233

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/19/99
RESPONSE: CIRCUIT INFO:

REF	CIRCUIT NO.	FROM	TO	REMARKS
1	6TVM2112	KSCNF 109	CDSC 103	NASA SELECT VIDEO TO EARTH STATION.

RESPONSE TRACKING: Z2652 Z2766 Z9307

[PRD] DATABASE RECORD: 16813 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/08/95
INITIAL DATE: 08/01/89
ITEM NUMBER: H55GK DATE LAST CHANGED: 11/16/06
SECTION: 2755 TIME LAST CHANGED: 07:13:14

REQUESTER: MSFC
SUBREQUESTER: MS216
TEST CODE: KSC MSFC STSALL

ASSOCIATED DOC: 20007S 20008S 20009S 20014S
20017S 20037S 20044S 25009S
TRACKING NO. COMREV05 KING2001 L2718 L2752 L2755
L2843 L4712 L5329 L6913 M2902
M3001 R109-45 R2909 R3003 RSRR136
SHAW95

1. DESCRIPTION: MSFC /KSC COMMUNICATIONS

WIDEBAND CIRCUIT REQUIRED FROM THE LCC TO THE CD & SC TO MSFC.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

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[PRD] DATABASE RECORD: 16813
ITEM NUMBER: H55GK

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/30/95
RESPONSE TRACKING: Z28117 Z4713 Z5323 Z7301

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 09/08/95
RESPONSE: FOR INFO ONLY

REF	CIRCUIT NO.	FROM	TO	REMARKS
H55.5	6TVM2039	LCC 1P2	CDSC 103	LC 39 OTV

RESPONSE TRACKING: Z2766 Z2772 Z28117 Z3004 Z4713
Z5323 Z6934 Z7309

[PRD] DATABASE RECORD: 17070 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/22/91
INITIAL DATE: 02/22/91
ITEM NUMBER: K58EK DATE LAST CHANGED: 12/14/06
SECTION: 2755 TIME LAST CHANGED: 09:20:08

REQUESTER: KSC
SUBREQUESTER: KSC/IT-D2-D
TEST CODE: STSALL
TRACKING NO. KING2001 L3929 MK98 R109-45 R2926
SCRUB06
PRIORITY: REQUIRED
RATIONALE: ALTERNATE COMMUNICATION SOURCE AVAILABLE.

1. DESCRIPTION: PROVIDE MAINTENANCE CIRCUITS AS FOLLOWS BETWEEN
KSC AND CCAFS FOR REPAIRING OPERTIONAL CIRCUITS ONLY:

1. 6TVC7101 FROM CDSC 129 TO CCAFS XY
2. 6TVC7102 FROM CDSC 129 TO CCAFS XY

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 17070
ITEM NUMBER: K58EK

3. 6TVC7103 FROM CCAFS XY TO CDSC 129
4. 6TVC7104 FROM CCAFS XY TO CDSC 129

POINT OF CONTACT: MATHEW SMISOR/IT-D2-D/321-867-4108

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/22/91
RESPONSE TRACKING: Z2988 Z3964

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/22/91
RESPONSE TRACKING: Z2923 Z3964

[PRD] DATABASE RECORD: 17071 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/19/99
INITIAL DATE: 12/19/88
ITEM NUMBER: EK59EK DATE LAST CHANGED: 12/14/06
SECTION: 2755 TIME LAST CHANGED: 09:24:51

REQUESTER: ER KSC
SUBREQUESTER: IT-D2-C KT-C
TEST CODE: STSALL WX
TRACKING NO. COMREV05 KING2001 L4205 L4215 L6910
MK98 R109-45 R2926 R9009 R9307
SCRUB06 SHAW95
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: PROVIDE TWO EQUIPPED WIDEBAND CIRCUITS AS FOLLOWS
BETWEEN KSC AND CCAFS ROCC FOR TRANSMISSION OF
WEATHER VIDEO:

REF	CKT #	FROM	TO	REMARKS

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 17071
ITEM NUMBER: EK59EK

K1 6TVC6133 HQ 1606 XY 116 LDAR TV CDSC, CIF, LACB, XY, FWS

E2 6TVC2051 CIF 331 XY 116 THE WEATHER CHANNEL VIDEO

TECH CONTACT: REF K1 JOHN MADURA/KT-C/321 867-0814
TECH CONTACT: REF E2 MIKE GAWEL/ER/321 853-8118

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/19/99
RESPONSE TRACKING: Z2988 Z4243 Z7508 Z9010 Z9307

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/19/99
RESPONSE TRACKING: Z2923 Z4243 Z6927 Z7303 Z9010
Z9307

[PRD] DATABASE RECORD: 18455 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/15/97
INITIAL DATE: 07/17/89
ITEM NUMBER: K62EK DATE LAST CHANGED: 06/05/07
SECTION: 2755 TIME LAST CHANGED: 13:47:30

REQUESTER: KSC
SUBREQUESTER: XA-E1
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20028S
TRACKING NO. KING2001 L2801 L2816 L3021 L4712
L7403 L7707 L8409 MK98 R109-45
R2803 R6536 SHAW94
PRIORITY: REQUIRED
RATIONALE: PAO REQUIREMENT, ALTERNATE COMMUNICATION SOURCES AVAILABLE.

1. DESCRIPTION: VIDEO FEED(L-30 MINUTES)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 18455
ITEM NUMBER: K62EK

REQUEST A WIDEBAND CIRCUIT FROM THE ATOTS TRACKER FROM UCS-23
TO THE LC-39 PRESS SITE.

TECH CONTACTS: BILL RAUCKHORST USK-111, 321 867-7464
JEROME SMITH USK-111, 321 867-2277

REFERENCE: LLS SECT 3120 ITEM K70EK DBR 018578
LLS SECT 2800 ITEM K25EK DBR 353496
KRK SECT 2760 ITEM N191NU DBR 019179

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: BART KLEINFELDT/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/15/97
RESPONSE TRACKING: Z2802 Z2874 Z2888 Z3047 Z4713
Z7705 Z7707 Z8421

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/19/99
RESPONSE:
CSOC-109 WILL PROVIDE THE FOLLOWING CIRCUIT: 6TVC2034.

RESPONSE TRACKING: Z2874 Z2888 Z3045 Z4713 Z7604
Z7707 Z8421 Z9307

[PRD] DATABASE RECORD: 19040 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/23/91
INITIAL DATE: 08/07/90
ITEM NUMBER: T63GK DATE LAST CHANGED: 01/25/07
SECTION: 2755 TIME LAST CHANGED: 10:14:35

REQUESTER: JSC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 L3960 L907-3 R109-45 R3401

CONTINUED

[PRD] DATABASE RECORD: 19040
ITEM NUMBER: T63GK

R3428 R3516 SCRUB06

1. DESCRIPTION: KSC-JSC SAIL DATA CIRCUIT

PROVIDE A 56KBPS CHANNEL ON THE CURRENT KSC LPS LINK (2.048 MBPS) FROM THE KSC SHUTTLE DATA CENTER (SDC) TO JSC BLDG. 16 SAIL LPS TEST SET. THIS CIRCUIT WILL BE USED FOR MISSION SOFTWARE VERIFICATION LOAD.

TECH CONTACTS: KSC/NE-C2/RON PENN/321 861-7333
KSC/USK-607/DICK HARTUNG/321 861-6752
JSC/MV2/BOBBY WATKINS/281 244-1335

REFERENCE: LLS2734 ITEM T14GKT DBR 013959

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/23/91
RESPONSE TRACKING: Z3477 Z3571 Z39104

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-B KICS-105 PH-L

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/23/91
RESPONSE TRACKING: Z3313 Z3418 Z3571 Z3590 Z3906
Z39104 Z4114

[PRD] DATABASE RECORD: 19041 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/23/91
INITIAL DATE: 04/23/91
ITEM NUMBER: T64GK DATE LAST CHANGED: 01/25/07
SECTION: 2755 TIME LAST CHANGED: 10:16:51

REQUESTER: JSC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 L3960 L907-4 R109-45 R3402
R3428 SCRUB06

CONTINUED

[PRD] DATABASE RECORD: 19041
ITEM NUMBER: T64GK

1. DESCRIPTION: KSC-JSC R-NET DATA CIRCUIT

PROVIDE A 56KBPS CHANNEL ON THE CURRENT KSC LPS LINK (2.048 MBPS) CALLED RECONFIGURATION - NETWORK (R-NET). THIS DATA CIRCUIT WILL BE USED FOR TRANSPORT (BULK DATA TRANSFER) OF THE ORBITER VEHICLE FLIGHT SOFTWARE LOAD BETWEEN JSC SPF AND KSC LPS.

TECH CONTACTS: KSC/NE-C2/DONALD WILSON/321 861-7330
KSC/USK-607/DICK HARTUNG/321 861-0588
JSC/MV2/BOBBY WATKINS/281 244-1335

REFERENCE: LLS2734 ITEM T14GKT DBR 013959

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/23/91
RESPONSE TRACKING: Z3477 Z39104

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 KICS-105 USK-607

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/23/91
RESPONSE TRACKING: Z3477 Z3515 Z39104

[PRD] DATABASE RECORD: 19296 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/16/94
INITIAL DATE: 10/09/90
ITEM NUMBER: K65GK DATE LAST CHANGED: 01/16/07
SECTION: 2755 TIME LAST CHANGED: 10:36:15

REQUESTER: KSC
SUBREQUESTER: KSC/PH-K KSC/PH-L
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20014S 20017S 20026S
20028S
TRACKING NO. COMREV05 GSFCREV06 KING2001 L3838 L4516

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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CONTINUED

[PRD] DATABASE RECORD: 19296
ITEM NUMBER: K65GK

L6507 R109-45 R3429 R3446 R6504
SCRUB06
PRIORITY: MANDATORY
RATIONALE: MISSION CRITICAL

1. DESCRIPTION: KSC: LCC/MILA DATA CIRCUITS

PROVIDE THE FIBER OPTIC DATA CIRCUITS AND INTERFACE EQUIPMENT BETWEEN MILA AND THE LCC TO SUPPORT MAJOR TESTS (S0017,S0007,S0026,S0028). THESE CIRCUITS PROVIDE REDUNDANCY TO FIRING ROOM 3 & 4 WIDEBAND HARDLINES FOR TRANSMISSION OF 192 KB DOWNLINK, 72 KB UPLINK, 12 8 KB DOWNLINK, AND 60 KB MAIN ENGINE DOWNLINK DATA.

PROVIDE 5 CIRCUITS:	8TVM4646	UPLINK COMMAND 72 KB	LCC-MILA
	8TVM4647	128 KB DOWNLINK	LCC-MILA
	8TVM4648	OD DATA 192 KB	MILA-LCC
	8TVM4649	DOWNLINK RF 192 KB	MILA-LCC
	8TVM4650	FM ME DATA	MILA-LCC

TECHNICAL CONTACT: RICHARD ROGERS/NE-E1/321 861-3854
DON GARCEAU/KICS-109/321 867-9429
RENEE HART/USK-669/321 861-0988

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/23/94
RESPONSE TRACKING: Z3431 Z3856 Z4534 Z6579

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/16/94
RESPONSE TRACKING: Z3216 Z3431 Z3625 Z3856 Z4534
Z6567

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LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 19322 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/19/99
INITIAL DATE: 08/27/90
ITEM NUMBER: K66EK DATE LAST CHANGED: 06/05/07
SECTION: 2755 TIME LAST CHANGED: 13:48:06

REQUESTER: KSC
SUBREQUESTER: I-MILA XA-E1
TEST CODE: S0027.001 STSALL

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
TRACKING NO. COMREV05 KING2001 L3570 L8605 MK98
R109-45 R3447 R8106 R9307
PRIORITY: REQUIRED
RATIONALE: PAO REQUIREMENT, ALTERNATE COMMUNICATION SOURCES AVAILABLE.

1. DESCRIPTION: NASA SELECT/KSC ELECTRONIC NEWS VIDEO DISTRIBUTION(L-5 HOURS)

PROVIDE NASA SELECT/KSC ELECTRONIC NEWS VIDEO AS FOLLOWS:

		FROM		TO		
CKT NO.	RQSTR	BLDG	RM	BLDG	RM	PURPOSE/REMARKS
6TVC2104	XA	KSCNF	109	M6-138	103	CDSC
	XA			M6-409	104C	VIC
	PH			M6-342	237A	CIF
	MILA			M5-1494	105	MIL
	TA			M6-399	2268	HQ
	UB			M7-355	4247	O&C
	TA			M7-409	203D	EDL
	TA			K6-900	1P2	LCC
	USA			L6146	E254	B-ARF
	USK-705			66250	SA202/ SA226	CCAFS HGR AF
	SGS			K6-2496	1070	SGS SEC
	USA			K6-1193	100	VABR
	XA			M6-306	6030	VIC EDUCATION BLDG
	SGS			J6-2313	12	LACB
	TA			N6-1009	106	PASS & ID BLDG. GATE

TECH CONTACT: WILLIAM JOHNSON/XA-E1/321 867-7819
MANUEL DELEON/USK-705/321 853-2706

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 19322
ITEM NUMBER: K66EK

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/19/99
RESPONSE TRACKING: Z3455 Z3593 Z8125 Z8608 Z9307

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/19/99
RESPONSE TRACKING: Z3462 Z3593 Z8110 Z8608 Z9307

[PRD] DATABASE RECORD: 19997 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/28/91
INITIAL DATE: 06/28/91
ITEM NUMBER: K70GK DATE LAST CHANGED: 12/13/06
SECTION: 2755 TIME LAST CHANGED: 13:42:10

REQUESTER: KSC
SUBREQUESTER: KSC/NE-E KSC/NE-M6
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20017S
TRACKING NO. DB98 GSFCREV06 KING2001 L3313 L4304
R109-45 SCRUB06
PRIORITY: MANDATORY
RATIONALE: MANDATORY TO MONITOR COMMANDS BEING SENT TO ORBITER.
NEEDED TO VERIFY LCC ITEM.

1. DESCRIPTION: WIDEBAND CIRCUIT(S) - MILA TO RPS

PROVIDE WIDEBAND CIRCUIT(S) FROM MILA TO RPS TO SUPPORT S0007 AND S0017 FROM T-19 HRS TO T-0. REQUIRED TO MONITOR THE UPLINK COMMANDS BEING SENT TO THE ORBITER. THIS SUPPORT IS REQUIRED FOR ALL MISSIONS.

TECH CONTACTS: RICHARD ROGERS/NE-E1/321 861-3854
MATHEW SMISOR/IT-D2-D/321 867-4108
RENEE HART/USK-669/321 861-0988

CONTINUED

[PRD] DATABASE RECORD: 19997
ITEM NUMBER: K70GK

REFERENCE: LLS SECT 2200 ITEM K93GK DBR 019996

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 286-4286

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/28/91
RESPONSE TRACKING: Z3216 Z4322

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/28/91
RESPONSE:
INTERNAL INFO ONLY: CKT. NO. 6TVM4650

RESPONSE TRACKING: Z3204 Z4322

[PRD] DATABASE RECORD: 20538 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/24/93
INITIAL DATE: 01/29/90
ITEM NUMBER: G74EGK DATE LAST CHANGED: 11/16/06
SECTION: 2755 TIME LAST CHANGED: 07:13:15

REQUESTER: GSFC
SUBREQUESTER: GSFC 93-08 MILA
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 GSFCREV06 KING2001 L3216 L3231
L5719 MK98 R109-45

1. DESCRIPTION: SIMPLEX FIBER OPTICS CIRCUIT - MILA TO XY

PROVIDE SIMPLEX FIBER OPTICS CIRCUITS AS FOLLOWS:

CIRCUIT #	FROM	TO	REMARKS
6TVC4675	XY	CDSC	PL TRUNK

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 20538
ITEM NUMBER: G74EGK

6TVM4676	CDSC	MILA	"
6TVM4677	MILA	CDSC	"
6TVC4678	CDSC	XY	"

TECHNICAL CONTACT: MILA/MELISSA BLIZZARD/321 867-1068
KSC/KICS-109/DON GARCEAU/321 867-9429

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/04/93
RESPONSE TRACKING: Z3217 Z3232 Z3558 Z3877 Z3973
Z4006 Z4120 Z4341 Z4409 Z4832
Z5033 Z5116 Z5516 Z5550 Z5716
Z5725 Z6111 Z9307

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/22/94
RESPONSE TRACKING: Z3217 Z3232 Z3588 Z5725 Z5914

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/02/94
RESPONSE TRACKING: Z3232 Z3919 Z5116 Z5725 Z5738
Z6214

[PRD] DATABASE RECORD: 514580 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/17/06
INITIAL DATE: 04/18/91
ITEM NUMBER: T76K DATE LAST CHANGED: 12/14/06
SECTION: 2755 TIME LAST CHANGED: 09:28:11

REQUESTER: JSC
SUBREQUESTER: I-MILA
TEST CODE: STSALL

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 514580
ITEM NUMBER: T76K

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 L03-8-5 L04-8-1 L105-2 L3964
L6203 R0607-2 R109-45 RTF114-9 SCRUB06

1. DESCRIPTION: KSC VIDEO DISTRIBUTION OF AMC-6 TRANSPONDER 5 AND AMC-6 TRANSPONDER 17C

PROVIDE A VIDEO CIRCUIT FOR AMC-6 TRANSPONDER 5 VIDEO DISTRIBUTION.
PROVIDE A VIDEO CIRCUIT FOR AMC-6 TRANSPONDER 17C VIDEO DISTRIBUTION.

DISTRIBUTION CRITERIA FOR VIDEO:

TX FROM LCC VIA KSCNF OR TX FROM MILA TO AMC-6 TRANSPONDER 5.
RX AT LCC OR KSCNF FROM AMC-6 TRANSPONDER 5 OR AMC-6 TRANSPONDER 17C, AS SCHEDULED, BUT NOT SIMULTANEOUSLY.

NOTE: TX TO TRANSPONDER 17C (UPLINK) ALLOWED ONLY AT NASA HEADQUARTERS. KSC ACCESS IS EXCLUSIVELY PERFORMED OVER IP, BY KSCNF PERSONNEL.

REF LLS2700, ITEM T116K, DBR 514579

PRIME REQUESTER: JSC/MT3/RAY BANKS/USH 700E/281 280-6971

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/17/06
RESPONSE TRACKING: Z4033 Z6203 Z8421

[PRD] DATABASE RECORD: 516733 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/28/91
INITIAL DATE: 08/28/91
ITEM NUMBER: G77K DATE LAST CHANGED: 12/14/06
SECTION: 2755 TIME LAST CHANGED: 09:29:42

REQUESTER: GSFC
SUBREQUESTER: MILA
TEST CODE: STSALL

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 516733
ITEM NUMBER: G77K

ASSOCIATED DOC: 20028S
TRACKING NO. COMREV05 KING2001 L4816 R109-45

1. DESCRIPTION: MILA TV SUPPORT

THE MILA TRACKING STATION REQUIRES THE VIEW FROM CAMERA 081 (VAB ROOFTOP CAMERA) DURING KSC LANDING OPERATIONS, AFTER NASA SELECT COMPLETES ITS LANDING COVERAGE AND UNTIL THE ORBITER IS IN THE OPF.

MILA CURRENTLY VIEWS NASA SELECT FOR THE LANDING, BUT AFTER IT GOES OFF THE AIR, MIL HAS NO VIEW OF THE ORBITER ON THE RUNWAY, AND AS IT IS BEING TOWED TO THE OPF.

REFERENCE: LLS2800, ITEM G67K, DBR 516748

TECH CONTACT: KSC/KICS-109/DON GARCEAU/321 867-9429

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/29/91
RESPONSE: INFO ONLY: CKTS. 6TVM4099/8TVM4684

RESPONSE TRACKING: Z4820

[PRD] DATABASE RECORD: 517456 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/20/93
INITIAL DATE: 11/13/91
ITEM NUMBER: T78K DATE LAST CHANGED: 10/25/06
SECTION: 2755 TIME LAST CHANGED: 10:03:23

REQUESTER: JSC
SUBREQUESTER: JSC/MO3
TEST CODE: STSALL TVPLAN

ASSOCIATED DOC: 20028S
TRACKING NO. KING2001 L06-10-1 L111-7 L201-1 L210-2A

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 517456
ITEM NUMBER: T78K

L312-3 L4234 L4414 L5229 R0610-2
R109-45 R6003

1. DESCRIPTION: BALLISTIC MISSILE DEFENSE OPERATIONS/INNOVATIVE SCIENTIFIC & TECHNOLOGY FACILITY (BMDO/ISTEF)

A. IF AVAILABLE, AND BMDO/ISTEF ELECTS TO PARTICIPATE; PROVIDE A TELEVISION CIRCUIT FOR DISTRIBUTION OF BMDO/ISTEF INFRARED TRACKING SYSTEMS VIDEO FOR ALL SHUTTLE LANDINGS. TELEVISION CIRCUIT POINT-OF-ORIGIN WILL BE COORDINATED ON A FLIGHT-BY-FLIGHT BASIS BY CHUCK BROWN, IT-D2-C, 321-867-2090.

NOTE: LOCAL RECORD ONLY WILL BE PROVIDED BY BMDO/ISTEF IF POINT-OF-ORIGIN DOES NOT HAVE AN EXISTING WIDEBAND (TELEVISION) CIRCUIT.

POINT-OF-RECEPTION WILL BE KSC OTV SWITCHER AND KSC PAO SWITCHER.

B. PROVIDE ACQUISITION/POINTING DATA CIRCUIT TO EACH POINT-OF-ORIGIN.

PRIME REQUESTER: JSC/MO3-USA/RAY BANKS/281 483-8233

TECH CONTACTS: KSC/IT-D2-C/CHUCK BROWN/321 867-2090
BMDO/ISTEF/A. TIETJEN/321 853-5285

REF: LLS SECT 2800, ITEM KT68EKX, DBR 518079 FOR 20028S ITEM.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/20/93
RESPONSE TRACKING: Z4211 Z4234 Z4606 Z5002 Z5230
Z5521 Z6007

[PRD] DATABASE RECORD: 517457 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/25/93
INITIAL DATE: 11/13/91
ITEM NUMBER: KT79K DATE LAST CHANGED: 06/05/07
SECTION: 2755 TIME LAST CHANGED: 13:48:31

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 517457
ITEM NUMBER: KT79K

REQUESTER: KSC JSC
SUBREQUESTER: JSC/TM3 NE-M
TEST CODE: STSALL

ASSOCIATED DOC: 20028S
TRACKING NO. DB98 KING2001 L111-7 L201-1 L305-6
L4234 L4414 L5027 L5722 R109-45
PRIORITY: REQUIRED
RATIONALE: MISSION CRITICAL

1. DESCRIPTION: INFRARED CAMERA CIRCUIT FROM SLF TO OTV/PAO SWITCHER

A. PROVIDE A TELEVISION CIRCUIT FOR DISTRIBUTION OF INFRARED CAMERA VIDEO FOR ALL SHUTTLE LANDINGS FROM THE SLF MID-FIELD PLATFORM TO THE KSC OTV SWITCHER AND THE KSC PAO SWITCHER.

B. PROVIDE APPROPRIATE VOICE COMM TO THE MID-FIELD PLATFORM.

C. LOCAL RECORD FOR ENGINEERING ANALYSIS (IT-D2-C).

PRIME REQUESTER: JSC/MT3/RAY BANKS/281 483-8233

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/15/97
RESPONSE:
KICS-109 WILL PROVIDE THE FOLLOWING CIRCUIT: 6TVM4550

RESPONSE TRACKING: Z4211 Z4234 Z5046 Z5727 Z8421

[PRD] DATABASE RECORD: 520156 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/15/97
INITIAL DATE: 06/09/92
ITEM NUMBER: K80EK DATE LAST CHANGED: 06/05/07
SECTION: 2755 TIME LAST CHANGED: 13:48:53

REQUESTER: KSC
SUBREQUESTER: IT-D2-C

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 520156
ITEM NUMBER: K80EK

TEST CODE: STSALL
TRACKING NO. KING2001 L5011 L8409 R6517 SHAW94

1. DESCRIPTION: CNN NEWS TO HANGER AE

PROVIDE A WIDEBAND CIRCUIT FOR TRANSMISSION OF CNN HEADLINE NEWS
AS FOLLOWS:

TYPE SERVICE	FROM	TO	REMARKS
CNN NEWS	CIF 331	HGR AE	

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: BART KLEINFELDT/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/15/97
RESPONSE TRACKING: Z5026 Z8421

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 01/19/99
RESPONSE:
USK-109 WILL PROVIDE THE FOLLOWING CIRCUIT: 6TVC2115.
REQUESTER: JIM SHAVER/VD-E1/321-853-9353

RESPONSE TRACKING: Z5026 Z8421 Z9307

[PRD] DATABASE RECORD: 520157 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/09/92
INITIAL DATE: 06/09/92
ITEM NUMBER: K81EK DATE LAST CHANGED: 04/07/06
SECTION: 2755 TIME LAST CHANGED: 08:52:48

REQUESTER: KSC
SUBREQUESTER: I-FF-D4-A SGS-346 SGS-347
TEST CODE: STSALL

CONTINUED

[PRD] DATABASE RECORD: 520157
ITEM NUMBER: K81EK

TRACKING NO. COMREV05 DB98 KING2001 L5011
PRIORITY: MANDATORY
RATIONALE: MANDATORY FOR SHUTTLE TRAINING FLIGHTS, LAUNCHES, AND END OF MISSION TO IDENTIFY AIRCRAFT AT SLF.

1. DESCRIPTION: D-BRITE VIDEO PAFB TO SLF

PROVIDE A WIDEBAND CIRCUIT FOR TRANSMISSION OF D-BRITE VIDEO FROM PAFB TO J5-1197.

TECH CONTACT: ROBERT BYRAN/SGS-346/321 867-2100

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/01/94
RESPONSE TRACKING: Z5032 Z5107 Z5510 Z6004 Z6547 Z6550

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/09/92
RESPONSE: INFO: CKT 6TVC4760

RESPONSE TRACKING: Z5026

[PRD] DATABASE RECORD: 520457 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/24/92
INITIAL DATE: 07/24/92
ITEM NUMBER: E82EK DATE LAST CHANGED: 12/14/06
SECTION: 2755 TIME LAST CHANGED: 09:31:31

REQUESTER: ER
TEST CODE: STSALL
TRACKING NO. KING2001 L4607 R109-45

1. DESCRIPTION: MULTIPLEX SYSTEM

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 520457
ITEM NUMBER: E82EK

PROVIDE A SINGLE MODE, 560MB F/D FIBER OPTIC CIRCUIT BETWEEN THE CDSC AND CCAFS XY BUILDING, TO ACTIVATE AN M560 MULTIPLEXER SYSTEM, AND CONNECT TO THE T-CARRIER (T-CXR) BACKBONE SYSTEM AT THE CDSC.

NOTE: FIBER TO BE FURNISHED BY KSC. MULTIPLEXERS TO BE FURNISHED BY 45 SW. M&O TO BE BUDGETED BY KSC AND 45 SW.

TECHNICAL CONTACTS: KEN STEVENSON/321 494-5109 (ER)
APRIL NORTON/KICS-313/321 867-2889

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/31/92
RESPONSE TRACKING: Z4633

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/06/92
RESPONSE TRACKING: Z4624 Z4707 Z4731 Z5216

[PRD] DATABASE RECORD: 522268 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/02/99
INITIAL DATE: 01/27/93
ITEM NUMBER: K83EK DATE LAST CHANGED: 12/07/06
SECTION: 2755 TIME LAST CHANGED: 08:06:35

REQUESTER: KSC
SUBREQUESTER: KT-C
TEST CODE: STSALL
TRACKING NO. DB98 ELSRR9410 KING2001 L5510 R9312
SCRUB06
PRIORITY: MANDATORY
RATIONALE: SAFETY REQUIREMENT FOR RESOURCE PROTECTION.

1. DESCRIPTION: T1 CIRCUIT FOR LDAR DATA

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 522268
ITEM NUMBER: K83EK

PROVIDE A "T1" COMMUNICATIONS CIRCUIT BETWEEN THE LIGHTNING DETECTION AND RANGING (LDAR) CENTRAL SITE, THE CENTRAL INSTRUMENTATION FACILITY (CIF), RANGE WEATHER OPERATIONS (RWO), AND THE APPLIED METEROLOGICAL UNIT (AMU) LOCATED IN THE CCAS ROCC BUILDING.

DATA CIRCUIT TYPE: T1 - DEDICATED, ONE DIRECTION - BROADCAST MODE

DATA INFORMATION: LIGHTNING LOCATION DATA "X", "Y", "Z" AND TIME

DATA RATE: 600K BITS/SECOND

INTERFACE: DEC/NET BOTH ENDS

DATA SOURCE LOCATION: LDAR CENTRAL SITE (NEAR BUILDING L7-1557)

DATA DESTINATIONS: KSC CIF ROOM 334 45 SW ROCC AMU AREA

TECHNICAL CONTACTS: KSC - JOHN MADURA/321 867-2666
ER - KATHY WINTERS/321 853-8107

JUSTIFICATION: CIRCUIT REQUIRED TO PROVIDE HIGH QUALITY LDAR X, Y, Z, DATA TO THE RWO AMU FOR SYSTEM EVALUATION AND OPERATIONAL SUPPORT.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/02/99
RESPONSE TRACKING: Z5542 Z6014 Z6111 Z6547 Z6558
Z9314

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/02/99
RESPONSE: INFO ONLY: CIRCUIT 2TCB60260

RESPONSE TRACKING: Z5517 Z5710 Z5738 Z6014 Z6106

CONTINUED

[PRD] DATABASE RECORD: 522268
ITEM NUMBER: K83EK

Z6547 Z6558 Z9307

[PRD] DATABASE RECORD: 522645 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/06/02
INITIAL DATE: 03/10/93
ITEM NUMBER: K84EK DATE LAST CHANGED: 12/14/06
SECTION: 2755 TIME LAST CHANGED: 09:32:49

REQUESTER: KSC
SUBREQUESTER: I-IT-D2-C KICS-109
TEST CODE: STSALL
TRACKING NO. KING2001 L5537 MK98 R109-45 R6570
SCRUB06

1. DESCRIPTION: MULTIMODE DARK FIBER OPTICS CIRCUITS-KSC TO CCAS

ESTABLISH T CARRIER CONNECTIVITY AS FOLLOWS:

CKT NUMBER	FROM	TO	REMARKS
6TCB60018	KSC CDSC	CCAFS HGR AE	
6TCB60047	CCAFS HGR AE	CCAFS HGR L	
6TCB60049	CCAFS HGR AE	CCAFS E&O BLDG	

TECH CONTACTS: GENE PUGH/CSR3200/321 853-8322
DON GARCEAU/KICS-109/321 867-9429

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/06/02
RESPONSE TRACKING: Z5546 Z5813 Z5915 Z6014 Z6516
Z6559

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/06/02

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

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[PRD] DATABASE RECORD: 522645
ITEM NUMBER: K84EK

RESPONSE TRACKING: Z5538 Z6559

[PRD] DATABASE RECORD: 522940
DOCUMENT ID: LLS
ITEM NUMBER: T85K
SECTION: 2755

REQUIREMENT STATUS: APPROVED
APPROVAL DATE: 08/27/03
INITIAL DATE: 05/03/93
DATE LAST CHANGED: 12/14/06
TIME LAST CHANGED: 09:33:16

REQUESTER: JSC
TEST CODE: STSALL TVPLAN

ASSOCIATED DOC: 20028S
TRACKING NO. KING2001 L03-8-5 L04-8-1 L5706 L6203
L9304 R109-45 RTF114-9

1. DESCRIPTION: PRE-LANDING TELEVISION COVERAGE OF WEATHER CONDITIONS

PROVIDE REALTIME VIDEO FROM THE LCC TO AMC-6 TRANSPONDER 5, VIA 6TVM2164 TO THE COLORADO MUX INPUT B/SWITCHER 50 INPUT 22 TO SWITCHER 50 OUTPUT 19.

THIS REQUIREMENT IS IN SUPPORT OF FLS 2800, ITEM T11KX, DBR 521695 AND LLS 2800, ITEM T72KX, DBR 521699.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/27/03
RESPONSE TRACKING: Z5706 Z6203 Z9323

[PRD] DATABASE RECORD: 522436
DOCUMENT ID: LLS
ITEM NUMBER: E86K
SECTION: 2755

REQUIREMENT STATUS: APPROVED
APPROVAL DATE: 07/02/07
INITIAL DATE: 05/14/93
DATE LAST CHANGED: 07/03/07
TIME LAST CHANGED: 12:15:19

REQUESTER: ER
TEST CODE: STSALL

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

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[PRD] DATABASE RECORD: 522436
ITEM NUMBER: E86K

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 KING2001 L5709 L7604 L8409
R0707-1 R109-45 R7502 R8111 R9307

1. DESCRIPTION: RANGE SAFETY VIDEO CIRCUIT

PROVIDE REAL-TIME VIDEO FROM PLAYALINDA DOAMS (6TVC4274) WIDEBAND CIRCUIT TO THE CCAFS XY, TO SUPPORT RANGE SAFETY REQUIREMENTS.

TECH CONTACT: DON GARCEAU/KICS-109/321 867-9429.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/03/07
RESPONSE TRACKING: Z5709 Z7601 Z7606 Z8115 Z8421
Z9307

[PRD] DATABASE RECORD: 523222 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/23/95
INITIAL DATE: 05/26/93
ITEM NUMBER: T87K DATE LAST CHANGED: 12/14/06
SECTION: 2755 TIME LAST CHANGED: 09:35:06

REQUESTER: JSC
SUBREQUESTER: JSC/MV
TEST CODE: STSALL TVPLAN

ASSOCIATED DOC: 20007S 20014S 20017S
TRACKING NO. KING2001 L508-1 L5724 R109-45 R6517
SCRUB06 SHAW95

1. DESCRIPTION: VIDEO FOR SHUTTLE ACTIVITIES

PROVIDE REALTIME VIDEO FROM THE LCC VIA 6TVM2164/SWITCHER 50 OUTPUT 19 OR 23 (WHEN TRANSPONDER IS AVAILABLE).

REFERENCE LLS 2800, ITEM T2.1K DBR 203344.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 523222
ITEM NUMBER: T87K

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/07/95
RESPONSE TRACKING: Z5729 Z6505 Z7309

[PRD] DATABASE RECORD: 525460 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/22/96
INITIAL DATE: 01/22/96
ITEM NUMBER: Y88EK DATE LAST CHANGED: 06/05/07
SECTION: 2755 TIME LAST CHANGED: 13:49:13

REQUESTER: NASA HQ
SUBREQUESTER: NASA
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 L5905 L7604 R7502 R8106

1. DESCRIPTION: STA PASSIVE DOWNLINK PROGRAM

PROVIDE A CIRCUIT TO EXTEND NTSC VIDEO FROM THE ROCC TO THE LCC
FROM T-90 MINUTES UNTIL LAUNCH, FOR DISPLAY IN OSR3/4 CONSOLE A5.

REF LLS3200, ITEM Y29EKT, DBR 525398.

KSC CONTACT: KSC/DL-ESS-23/JIM CECIL/FTS 321 867-8094
REQUIREMENT POC: NASA/J. MADURA/321 867-2666

REF: LLS SECT 2800, ITEM Y75K, DBR 525461

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: BART KLEINFELDT/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/18/96
RESPONSE TRACKING: Z8125

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

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[PRD] DATABASE RECORD: 525460
ITEM NUMBER: Y88EK

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/22/96
RESPONSE: INFO - CIRCUIT # 1TVC2107

RESPONSE TRACKING: Z7601 Z7606 Z8110

[PRD] DATABASE RECORD: 526263 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/23/94
INITIAL DATE: 05/16/94
ITEM NUMBER: E89EK DATE LAST CHANGED: 03/08/06
SECTION: 2755 TIME LAST CHANGED: 07:14:51

REQUESTER: ER
TEST CODE: STSALL
TRACKING NO. COMREV05 ELSRR9416 KING2001 R109-45 R6541
R6561

1. DESCRIPTION: FIBER OPTICS TEL-IV TO XY

PROVIDE 6 EA SINGLE-MODE FIBER OPTICS CIRCUITS BETWEEN TEL-IV, THRU CDSC AND THE BRRS, XY. THE 6 FIBERS WILL SUPPORT THE ALS FN6000 EQUIPMENT INSTALLATION AT TEL-IV.

CKT NUMBER	FROM	TO	REMARKS
6DAC6172	TEL-IV 102	CCAFS XY	FDM SYS 1 (P)
6DAC6173	TEL-IV 102	CCAFS XY	FDM SYS 1 (S)
6DAC6174	TEL-IV 102	CCAFS XY	FDM SYS 2 (P)
6DAC6175	TEL-IV 102	CCAFS XY	FDM SYS 2 (S)
6DAC6176	CCAFS XY	TEL-IV 102	FDM SYS 3 (P)
6DAC6177	CCAFS XY	TEL-IV 102	FDM SYS 3 (S)

TECH CONTACTS: BOB LUCE/CSR 2230/494-5771
DON GARCEAU/KICS-109/867-9429

COORDINATED: KSC/IT-D2-D/MATT SMISOR/321 867-4108

CONTINUED

[PRD] DATABASE RECORD: 526263
ITEM NUMBER: E89EK

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/02/95
RESPONSE TRACKING: Z6308 Z6548 Z7312

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/23/94
RESPONSE TRACKING: Z6548

[PRD] DATABASE RECORD: 526417 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/09/94
INITIAL DATE: 06/09/94
ITEM NUMBER: K90EK DATE LAST CHANGED: 12/14/06
SECTION: 2755 TIME LAST CHANGED: 09:49:34

REQUESTER: KSC
SUBREQUESTER: SAIC-1
TEST CODE: STSALL
TRACKING NO. DB98 KING2001 L6503 SCRUB06
PRIORITY: MANDATORY
RATIONALE: CIRCUIT REQUIRED TO PROCESS SRB'S.

1. DESCRIPTION: KNET CKTS (2)

PROVIDE AND INSTALL TWO (2) KNET HIGH SPEED CKTS BETWEEN KSC, BLDG. L6-146, ROOM E150 AND CCAFS, HANGAR AF, SOUTH SA215, 2ND FLOOR VIA HGR AE TO SUPPORT PSCNI CONNECTIVITY BETWEEN L6-146, HANGAR AF AND USBI, HUNTSVILLE ALABAMA.

TECH CONTACT: STEVE DEFEO/321 867-7713

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/06/94

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

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[PRD] DATABASE RECORD: 526417
ITEM NUMBER: K90EK

RESPONSE TRACKING: Z6588

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/14/94
RESPONSE: INFO: CIRCUIT 6EFL6072 & 6EFL6073

RESPONSE TRACKING: Z6563

[PRD] DATABASE RECORD: 527951 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/30/94
INITIAL DATE: 08/30/94
ITEM NUMBER: K91EK DATE LAST CHANGED: 12/14/06
SECTION: 2755 TIME LAST CHANGED: 10:03:01

REQUESTER: KSC
SUBREQUESTER: TA-E
TEST CODE: STSALL
TRACKING NO. L6409 R109-45
PRIORITY: REQUIRED
RATIONALE: REDUNDANT CIRCUITS FOR PHONE LINES.

1. DESCRIPTION: SINGLE MODE DARK FIBERS (FOR BELL SOUTH)

PROVIDE 6 EA SINGLE MODE DARK FIBERS FROM CDSC TO X-Y BUILDING
AT CCAFS, FOR ALTERNATE ROUTING.

NOTE: CIRCUITS 6DAC6159 THRU 6DAC6164.

TECH CONTACT: JOHN KUHN/IT-D2-A/321-867-6222

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/02/94
RESPONSE TRACKING: Z6303

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 527951
ITEM NUMBER: K91EK

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/06/94
RESPONSE TRACKING: Z6413

[PRD] DATABASE RECORD: 533294 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/02/04
INITIAL DATE: 05/08/96
ITEM NUMBER: H94GK DATE LAST CHANGED: 11/16/06
SECTION: 2755 TIME LAST CHANGED: 07:13:27

REQUESTER: MSFC
SUBREQUESTER: MS238
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20008S 20017S 20024S
25009S
TRACKING NO. COMREV05 KING2001 L7705 R0412-1 R109-45
R7802
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: SHUTTLE DATA STREAM (SDS) TO MSFC

MSFC REQUIRES A 1544 KB CIRCUIT FROM THE LCC TO MSFC FOR TRANSMISSION OF SHUTTLE DATA STREAM. KSC SHALL ROUTE THE SDS TO MSFC AS REQUIRED.

POINT OF CONTACT: PHILIP CAUTHEN/EO60/256-544-4204

TECHNICAL CONTACT: GARY DEMPSEY/256-544-5113
ROD THORNTON/321 867-2241

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/12/05
RESPONSE TRACKING: Z0505-3 Z7802

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: KICS-105 USK-607

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/02/04

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 533294
ITEM NUMBER: H94GK

RESPONSE:
INFO ONLY: KICS-105 WILCO IS FOR THE NISN PORTION OF THIS REQUIREMENT.

RESPONSE TRACKING: Z9414

[PRD] DATABASE RECORD: 533295 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/08/96
INITIAL DATE: 05/08/96
ITEM NUMBER: H95GK DATE LAST CHANGED: 11/20/06
SECTION: 2755 TIME LAST CHANGED: 10:16:17

REQUESTER: MSFC
SUBREQUESTER: MS238
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20008S 20017S 20024S
25009S
TRACKING NO. KING2001 L7705 R109-45
PRIORITY: REQUIRED
RATIONALE: REDUNDANT CIRCUITS FOR PHONE LINES.

1. DESCRIPTION: PC LOAD MASTER CONNECTION

MSFC REQUIRES A 56 KB CIRCUIT FROM LCC TO MSFC FOR TRANSMISSION OF PC LOAD MASTER CONNECTION SOFTWARE DATA STREAM.

POINT OF CONTACT: MSFC/PHILIP CAUTHEN/EO60/256-544-4204

TECHNICAL CONTACT: GARY DEMPSEY/256-544-5113
ROD THORNTON/USK-102/321-867-2241

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/03/96
RESPONSE TRACKING: Z7802

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-A KICS-105

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 533295
ITEM NUMBER: H95GK

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/14/97
RESPONSE TRACKING: Z8203

[PRD] DATABASE RECORD: 533937 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/14/97
INITIAL DATE: 07/16/96
ITEM NUMBER: K96EK DATE LAST CHANGED: 12/14/06
SECTION: 2755 TIME LAST CHANGED: 10:52:37

REQUESTER: KSC
SUBREQUESTER: I-IT-D2-C KICS-003
TEST CODE: STSALL
TRACKING NO. COMREV05 DB98 KING2001 L8202
PRIORITY: MANDATORY
RATIONALE: BACKBONE OF SHUTTLE OPERATIONS DATA NETWORK (SODN), PCN, AND DON.

1. DESCRIPTION: FDDI TRANSMISSION SYSTEM

INSTALL THE FIBER DISTRIBUTION DATA INTERFACE (FDDI) TRANSMISSION SYSTEM (FTXS) AT HANGAR AE (60680) HUB PER TCTI DECOM065-0010-000, APD THE CDSC (M6-138) AT KSC.

TECH CONTACT: KERRY STINSON/KICS-003/321 867-7464

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/14/97
RESPONSE TRACKING: Z8203

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/14/97
RESPONSE: 6DAC4845 AE TO CDSC
6DAC4848 AE TO CIF

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 533937
ITEM NUMBER: K96EK

RESPONSE TRACKING: Z8203

[PRD] DATABASE RECORD: 534830 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/19/99
INITIAL DATE: 01/14/97
ITEM NUMBER: T97K DATE LAST CHANGED: 06/05/07
SECTION: 2755 TIME LAST CHANGED: 13:49:31

REQUESTER: JSC
SUBREQUESTER: JSC/AP3
TEST CODE: STSALL V1103.02

ASSOCIATED DOC: 20007S 20017S
TRACKING NO. KING2001 L610-1 L8004 L8202 L8605
R109-45 R9307

1. DESCRIPTION: ASTRONAUT STRAP-IN CAMERA'S

PROVIDE TWO VIDEO CIRCUITS FROM PAD A AND PAD B WHITE ROOM
TO THE KSCNF FOR TRANSMISSION OF THE ASTRONAUT STRAP-IN ACTIVITIES.

PAD A: 6TVM4725 & 6TVM4726 PAD B: 6TVM4727 & 6TVM4728

ONE CAMERA (CUSTOMER PROVIDED) WILL VIEW THE MIDDECK AND THE OTHER
WILL VIEW THE FLIGHT DECK.

TWO VIDEO CABLES WITH BNC CONNECTORS WILL BE REQUIRED FROM
THE WHITE ROOM INTERFACE TO THE CAMERA INTERFACE.

TECHNICAL CONTACTS: CHUCK BROWN/TA-B2-C/321-867-2090
WILLIAM RAUCKHORST/USK-113/321 867-3134
WILLIAM JOHNSON/XA-E1/321 867-7641

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109 XA-E1
ZKM

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/19/99
RESPONSE TRACKING: Z8608 Z9307 Z9408

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 534830
ITEM NUMBER: T97K

[PRD] DATABASE RECORD: 537958 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/09/97
INITIAL DATE: 05/06/97
ITEM NUMBER: K98GK DATE LAST CHANGED: 11/16/06
SECTION: 2755 TIME LAST CHANGED: 07:13:27

REQUESTER: KSC
SUBREQUESTER: XA-E1
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. DB98 GSFCREV06 KING2001 L8403 L8408
R109-45
PRIORITY: REQUIRED
RATIONALE: ALTERNATE COMMUNICATION SOURCES AVAILABLE.

1. DESCRIPTION: NASA SELECT TRANSPONDER

NASA SELECT (AMC6-TRANSPONDER 17C) UPLINK IS REQUIRED AT KSC FOR USE FROM L-1 DAY THROUGH SHUTTLE LAUNCH. ALSO REQUIRE SHUTTLE PAD VIEWS FOR COVERAGE OF SHUTTLE LAUNCH ACTIVITIES. EXCEPTION: WEATHER BRIEFINGS AT JSC.

TECHNICAL CONTACT: WILLIAM JOHNSON/KSC/XA-E1/321 867-7641

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/09/97
RESPONSE TRACKING: Z8420

SUPPLIER: KSC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/09/97
RESPONSE TRACKING: Z8411 Z8420

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 539596 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/25/99
INITIAL DATE: 08/14/97
ITEM NUMBER: EK99K DATE LAST CHANGED: 12/14/06
SECTION: 2755 TIME LAST CHANGED: 10:53:25

REQUESTER: ER KSC
SUBREQUESTER: ER KICS-207
TEST CODE: STSALL
TRACKING NO. COMREV05 KING2001 L8601 L8604 R10301
R109-45 SCRUB06
PRIORITY: MANDATORY
RATIONALE: SAFETY REQUIREMENT

1. DESCRIPTION: WIDEBAND CIRCUIT - CCAS TO KSC

PROVIDE A WIDEBAND CIRCUIT FROM CCAFS BLDG. XY TO THE O&C (M7-355) RM 4289 (RADCC) AND SECURITY PATROL HEADQUARTERS (K6-2496) RM 1064, AND TO THE LCC 1P2.

NOTE: THIS IS A RANGE SAFETY REQUIREMENT FOR TOXIC CLOUD VIDEO.

COORD: RANGE SAFETY/321 494-7073

TECH CONTACT: R. WETHERINGTON/KICS-207/321 867-4120

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/25/99
RESPONSE: INFO: CKT 6TVC6999

RESPONSE TRACKING: Z10301 Z8606

[PRD] DATABASE RECORD: 543759 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/04/98
INITIAL DATE: 03/04/98
ITEM NUMBER: K100EK DATE LAST CHANGED: 06/05/07
SECTION: 2755 TIME LAST CHANGED: 13:49:54

REQUESTER: KSC
SUBREQUESTER: IT-D2-C
TEST CODE: STSALL

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 543759
ITEM NUMBER: K100EK

ASSOCIATED DOC: 20007S 20028S
TRACKING NO. DB98 KING2001 R109-45 R9009 R9011
PRIORITY: MANDATORY
RATIONALE: LAST PHASE OF CHANGE ORDER 426, UPGRADE FROM 16 GA COPPER TWINAX WIDEBAND TO FIBER OPTIC WIDEBAND.

1. DESCRIPTION: OFF-LOAD EXISTING 16 GAUGE PEVL CIRCUITS BETWEEN THE KSC AND CCAS

   A. OFF-LOAD ALL EXISTING 16 GAUGE PEVL COPPER CABLES BETWEEN KSC CDSC (M6-138) AND CCAS XY (BUILDING 1641) TO THE EXISTING FIBER OPTIC CABLE PLANT.

   B. THE OFF-LOAD IS DUE TO THE DETERIORATING 16 GAUGE PEVL COPPER CABLES.

   C. CCAS TO ENGINEER AND IMPLEMENT CIRCUIT EXTENSIONS FROM THE XY TO VARIOUS LOCATIONS WITHIN CCAFS, TO MAINTAIN EXISTING CONNECTIVITY.

      REQUESTER: IT-D2-C/MATT SMISOR/321 867-3181
      NEED DATE: 06/01/98
      AUTHORIZATION: C/O 426

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: BART KLEINFELDT/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/12/99
RESPONSE TRACKING: Z10301 Z9011

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/19/98
RESPONSE: 6TVC3602, 6TVC3603, 6TVC3605, 6TVC3702, 6TVC3703, 6TVC3704, 6TVC3705, 6TVC3709, 6TVC4302, 6TVC4303,6TVC4304

RESPONSE TRACKING: Z9010

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 543759
ITEM NUMBER: K100EK

[PRD] DATABASE RECORD: 544018 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/13/98
INITIAL DATE: 03/13/98
ITEM NUMBER: K101EK DATE LAST CHANGED: 03/08/06
SECTION: 2755 TIME LAST CHANGED: 07:14:51

REQUESTER: KSC
SUBREQUESTER: IT-D2 KICS-109
TEST CODE: STSALL
TRACKING NO. COMREV05 DB98 KING2001 R109-45 R9014
PRIORITY: MANDATORY
RATIONALE: FIBER OPTIC CIRCUIT THAT CARRIES OIS 212, OIS 232, AS WELL AS ALL OTHER LAUNCH CRITICAL DATA FROM OFFSITE LOCATIONS (INCLUDING JSC) TO THE "XY" BUILDING, CCAFS.

1. DESCRIPTION: FIBER OPTIC CIRCUIT, CD&SC TO XY

PROVIDE ONE SINGLE MODE DARK FIBER OPTIC CIRCUIT FROM KSC, CD&SC, ROOM 132, RACK 2810 FIBER OPTIC I/F A3 JK'S 35-36 PANEL TO THE CCAFS XY BUILDING FIBER OPTIC INTERFACE PANEL.

(VIA VABR) PROVIDE FIBER OPTIC CABLES FROM THE INTERFACE PANELS TO THE EQUIPMENT USING "ST" CONNECTORS.

TITLE CIRCUIT: FIBER MUX TRANSMISSION SYSTEM - CIRCUIT NUMBER ASSIGNED IS 6DAC6726, XY FIBER ASSIGNMENT IS FS90, FIBER 73 AND 74.

POC: ER/MIKE GAWEL/321 853-8118

TECHNICAL CONTACT: KSC/KICS-105/JOHN STEFFES/321 867-7747

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/27/98
RESPONSE TRACKING: Z9020

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)

CONTINUED

[PRD] DATABASE RECORD: 544018
ITEM NUMBER: K101EK

SUBSUPPLIER: KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/13/98
RESPONSE TRACKING: Z9014

[PRD] DATABASE RECORD: 544023 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/13/98
INITIAL DATE: 03/13/98
ITEM NUMBER: K102EK DATE LAST CHANGED: 03/08/06
SECTION: 2755 TIME LAST CHANGED: 07:14:51

REQUESTER: KSC
SUBREQUESTER: IT-D2 KICS-109
TEST CODE: STSALL
TRACKING NO. COMREV05 DB98 KING2001 R109-45 R9014
PRIORITY: MANDATORY
RATIONALE: FIBER OPTIC CIRCUITS THAT CARRY OIS 212, OIS 232, AS WELL AS ALL OTHER DATA FROM OFFSITE LOCATIONS TO THE XY BUILDING, CCAFS.

1. DESCRIPTION: FIBER OPTIC CIRCUITS, CD&SC TO XY

PROVIDE TWO (2) FULL DUPLEX, SINGLE MODE DARK FIBER CIRCUITS FROM M6-138

CD&SC TO BUILDING 1641 (XY), ROOM 110B, RACK 33.7 AND 33.8

CIRCUIT NUMBER	TITLE	FS01C
6DAC6340	FMTS(P)	16&17
6DAC6341	FMTS(S)	37&38

POC: ER/MIKE GAWEL/321 853-8118

TECHNICAL CONTACT: KSC/KICS-105/JOHN STEFFES/321 867-7747

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/27/98

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

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[PRD] DATABASE RECORD: 544023
ITEM NUMBER: K102EK

RESPONSE TRACKING: Z9020

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/13/98
RESPONSE TRACKING: Z9014

[PRD] DATABASE RECORD: 544048 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/14/99
INITIAL DATE: 03/16/98
ITEM NUMBER: K103EK DATE LAST CHANGED: 06/05/07
SECTION: 2755 TIME LAST CHANGED: 13:50:18

REQUESTER: KSC
SUBREQUESTER: IT-D2 KICS-109
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20028S
TRACKING NO. DB98 KING2001 R109-45 R9016 R9305
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR THE DEVELOPMENT AND INSTALLATION OF THE TELEMETRY PROCESSING EQUIPMENT BEING INSTALLED IN THE ROCC BY RSA PHASE I PROGRAM AND FOR PARALLEL OPERATIONS WITH THE EXISTING RANGE TELEMETRY PROCESSING EQUIPMENT AT TEL-IV. ALL TELEMETRY DATA THAT PASSES BETWEEN ROCC AND TEL-IV WILL USE THESE FIBERS (FOR ALL LAUNCHES).

1. DESCRIPTION: FIBER OPTIC LINES FOR RSA PHASE I PROGRAM

PROVIDE SIX (6) SINGLE MODE FIBERS FOR USE BY THE RSA PHASE I PROGRAM BETWEEN THE XY BUILDING, CCAFS AND TEL-IV, N6-2296

XY BUILDING INTERFACE: ROUTE THE OPTIC FIBERS TO THE EXISTING FIBER OPTIC INTERFACE IN THE XY BUILDING, ROOM 116, RACK 1.03, CHASSIS L5/R5

TEL-IV BUILDING INTERFACE: ROUTE THE FIBERS TO THE RSA PHASE I EQUIPMENT ROOM 204. THREE (3) FIBERS GO TO RACK #08004, CHASSIS A35, AND THREE (3) FIBERS GO TO RACK #08114, CHASSIS A35. ALL SIX FIBERS MUST BE TERMINATED WITH TYPE FC/APC CONNECTORS.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 544048
ITEM NUMBER: K103EK

CIRCUIT NUMBER	TITLE	FROM	TO
6DAC4275	SIDE A ISC TX TO ROCC	N6-2296	1641(XY)
6DAC4276	SIDE A ISC RX FR ROCC	1641(XY)	N6-2296
6DAC4277	SIDE B ISC TX TO ROCC	N6-2296	1641(XY)
6DAC4278	SIDE B ISC RX FR ROCC	1641(XY)	N6-2296
6DAC4279	SIDE A ISC SPARE	N6-2296	1641(XY)
6DAC4280	SIDE B ISC SPARE	1641(XY)	N6-2296

TECH CONTACT: H. RAVENSCROFT/CSR-2040/321 635-2431

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/14/99
RESPONSE TRACKING: Z9020 Z9305

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/14/99
RESPONSE TRACKING: Z9016 Z9305

[PRD] DATABASE RECORD: 552000 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/20/99
INITIAL DATE: 05/20/99
ITEM NUMBER: K105EK DATE LAST CHANGED: 03/08/06
SECTION: 2755 TIME LAST CHANGED: 07:14:51

REQUESTER: KSC
SUBREQUESTER: IDI-133
TEST CODE: STSALL
TRACKING NO. COMREV05 KING2001 L9605 R109-45

1. DESCRIPTION: PROVIDE (3) DIGITAL (SINGLE MODE) FIBERS WITH ST CONNECTORS TO SUPPORT CONSOLIDATION OF 911 DISPATCH AND EMERGENCY OPERATIONS CENTERS FROM CCAS CENTRAL SECURITY CENTER (CSC) ROOM 29 TO KSC LAUNCH CONTROL CENTER (LCC)

CONTINUED

[PRD] DATABASE RECORD: 552000
ITEM NUMBER: K105EK

ROOM 1P11. PROVIDE (2) T-1 CIRCUIT FOR REDUNDANT ETHERNET REQUIREMENT (2TCB60298 AND 2TCB60299). THE FOLLOWING CIRCUIT NUMBERS HAVE BEEN ASSIGNED 6TVC4504, 6TVC4505 AND 6TVC4506.

TECHNICAL CONTACT: WAYNE C. WILLIAMS/IDI-133/321 867-9113/
NETWORK/SERVER SERVICES SUPERVISOR

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/21/99
RESPONSE TRACKING: Z9319

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/20/99
RESPONSE TRACKING: Z9608

[PRD] DATABASE RECORD: 552794 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/22/99
INITIAL DATE: 07/22/99
ITEM NUMBER: K106EK DATE LAST CHANGED: 06/05/07
SECTION: 2755 TIME LAST CHANGED: 13:50:37

REQUESTER: KSC
SUBREQUESTER: USK-575
TEST CODE: DED STSALL
TRACKING NO. KING2001 L9306 R109-45

1. DESCRIPTION: WIDE BAND CIRCUIT

PROVIDE CIRCUIT (6DAC4309) FROM M6-342 (CIF) ROOM 147 FOT TO CCAS BLDG: 1641 (XY) ROOM 116, FOR DISTRIBUTION OF BCDS (BROAD BAND CABLE DISTRIBUTION SYSTEM).

TECH CONTACT: R. WETHERINGTON/USK-575/867-2280.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 552794
ITEM NUMBER: K106EK

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: BART KLEINFELDT/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/26/99
RESPONSE TRACKING: Z9903

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/22/99
RESPONSE TRACKING: Z9326

[PRD] DATABASE RECORD: 574335 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/29/03
INITIAL DATE: 10/29/03
ITEM NUMBER: K107EK DATE LAST CHANGED: 03/08/06
SECTION: 2755 TIME LAST CHANGED: 07:14:52

REQUESTER: KSC
SUBREQUESTER: IT-D2 KICS-109
TEST CODE: STSALL
TRACKING NO. R0310-1
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR THE DEVELOPMENT AND INSTALLATION OF THE TELEMETRY PROCESSING EQUIPMENT BEING INSTALLED IN THE ROCC BY RSA PHASE II PROGRAM AND FOR PARALLEL OPERATIONS WITH THE EXISITNG RANGE TELEMETRY PROCESSING EQUIPMENT AT TEL-IV. ALL TELEMETRY DATA THAT PASSES BETWEEN ROCC AND TEL-IV WILL USE THESE FIBERS (FOR ALL LAUNCHES).

1. DESCRIPTION: FIBER OPTIC LINES FOR RSA PHASE II PROGRAM

PROVIDE TWO (2) SINGLE MODE FIBERS FOR USE BY THE RSA PHASE II PROGRAM BETWEEN THE XY BUILDING, CCAFS AND TEL-IV, N6-2296, FOR BACKUP.

XY BUILDING INTERFACE: ROUTE THE OPTIC FIBERS TO THE EXISTING FIBER OPTIC INTERFACE IN THE XY BUILDING, ROOM 116, RACK 1.03, CHASSIS L5/R5

CONTINUED

[PRD] DATABASE RECORD: 574335
ITEM NUMBER: K107EK

TEL-IV BUILDING INTERFACE: ROUTE THE FIBERS TO THE RSA PHASE II EQUIPMENT ROOM 204.

CIRCUIT NUMBER	TITLE	FROM	TO
6DAC6356	BACKUP SVC	TEL 4	1641 (XY)
6DAC6357	BACKUP SVC	TEL 4	1641 (XY)

TECH CONTACT: STEVE LACLAIR 321 476-4896

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: BART KLEINFLELDT/853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/24/03
RESPONSE TRACKING: Z0311-2

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/29/03

[PRD] DATABASE RECORD: 581598 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/08/05
INITIAL DATE: 04/08/05
ITEM NUMBER: KT108EG DATE LAST CHANGED: 11/16/06
SECTION: 2755 TIME LAST CHANGED: 07:13:28

REQUESTER: KSC JSC
SUBREQUESTER: KSC/PH-L
TEST CODE: LAUNCH PREFLT STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. R0504-7

1. DESCRIPTION: ET TV RECEIVER CONFIGURATION/AGC RECORDING AND DISPOSITION

RESPONSIBLE AGENCY: ER/JDMTA

JDMTA WILL RECEIVE THE ET TV VIDEO AT THE FREQUENCY OF 2275.5MHz AND

CONTINUED

[PRD] DATABASE RECORD: 581598
ITEM NUMBER: KT108EG

RECORD THE ET TV RECEIVER RHCP AGC's ON STRIP CHARTS (-50dbm TO -110 dbm) WITH 1PPS TIMING REFERENCE AND A TIMING HACK AT LIFTOFF FOR EVENTUAL SHIPMENT TO JSC POST LAUNCH. THIS CAPABILITY WILL BE PROVIDED ON A BEST-EFFORT-BASIS ONLY. BOTH PRE-PASS AND POST-PASS STRIP CHART CALIBRATIONS WILL BE PERFORMED AS PER LOCAL OPERATING PROCEDURES AND WILL BE SUPPLEMENTED WITH AN ISI FOR EACH MISSION. JDMTA WILL ALSO PROVIDE RECEIVER SET-UP CONFIGURATION SHEET WITH THE STRIP CHART RECORDING TO INCLUDE THE FOLLOWING:

MICRODYNE 1200

FREQ SELECT
TLM DEMOD
IF BW
VIDEO BW
AGC SPEED

ADDITIONAL STATUS (IF AVAILABLE)
ET TV LHCP AGC
SINGLE CHANNEL OD AGC
SSME (MAIN ENGINE) AGC
AZIMUTH AND ELEVATION READINGS IN 10 DEGREE INCREMENTS

JDMTA WILL ANNOTATE THEIR STRIP CHART RECORDINGS PRE-LAUNCH FOR A SIGNAL LEVEL OF -50 TO -110 dbm. THE MILA TRACKING STATION WILL OBTAIN THE JDMTA RECORDINGS AND FORWARD THEM TO JSC 10 DAYS AFTER END OF MISSION FOR REPRODUCTION AND DISTRIBUTION AS REQUIRED. THE SHIPPING ADDRESS IS AS FOLLOWS:

CATHERINE C. SHAM
NASA JOHNSON SPACE CENTER
MAIL CODE EV7
2101 NASA PARKWAY
HOUSTON, TEXAS 77058

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/14/05

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 581598
ITEM NUMBER: KT108EG

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/08/05

[PRD] DATABASE RECORD: 581599 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/08/05
INITIAL DATE: 04/08/05
ITEM NUMBER: KTY109G DATE LAST CHANGED: 11/16/06
SECTION: 2755 TIME LAST CHANGED: 07:13:28

REQUESTER: KSC JSC NASA HQ
SUBREQUESTER: KSC/PH-L
TEST CODE: LAUNCH PREFLT STSALL TVPLAN

ASSOCIATED DOC: 20007S 20017S
TRACKING NO. R0504-7

1. DESCRIPTION: ET TV RECEIVER CONFIGURATION/AGC RECORDING AND DISPOSITION

RESPONSIBLE AGENCY: GSFC

MILA, PDL AND WLPS WILL RECEIVE THE ET TV VIDEO AT THE FREQUENCY OF 2272.5 MHz AND RECORD ET TV RECEIVER RHCP AGC's ON STRIP CHARTS (-50 dbm TO -110 dbm) WITH SERIAL DECIMAL TIME CODE REFERENCE OF 1 PPM AS AVAILABLE FOR EVENTUAL SHIPMENT TO JSC POST LAUNCH. THE STATIONS WILL PROVIDE THIS CAPABILITY ON A BEST-EFFORT-BASIS ONLY. BOTH PRE-PASS AND POST-PASS STRIP CHART CALIBRATIONS WILL BE PERFORMED AS PER STDN 502.4 AND WILL BE SUPPLEMENTED BY AN ISI SENT FOR EACH MISSION.

THE FOLLOWING ET TV RECEIVER CONFIGURATION PARAMETERS SHOULD ALSO BE ANNOTATED ON THE STRIP CHART:

MFR/MICRODYNE 2000

CONTINUED

[PRD] DATABASE RECORD: 581599
ITEM NUMBER: KTY109G

FREQ SELECT
TLM DEMOD
IF BW
LOOP BW
VIDEO BW
VIDEO LEVEL
VIDEO COUP
AGC SPEED

ADDITIONAL STRIP CHART RECORDING WILL INCLUDE THE FOLLOWING (AS AVAILABLE):

ET TV LHCP AGC
SINGLE CHANNEL OD AGC
SSME (MAIN ENGINE) AGC
AZIMUTH AND ELEVATION READINGS IN 10 DEGREE INCREMENTS
X & Y ANGLE DATA
TACH DATA

IN ADDITION TO THE AGC STRIP CHART RECORDING THE STATIONS WILL ALSO SUPPLY A COPY OF THE ASSOCIATED CALIBRATION CURVE (POWER LEVEL IN dbm REQUIRED TO INJECT -50 dbm TO -110 dbm TO THE INPUT OF THE PRE-AMP) TO ENABLE AGC CONVERSION TO RECEIVED POWER FOR FM VIDEO. TO ENSURE THIS CALIBRATION CURVE IS ACCURATE, A SYSTEM GAIN DISTRIBUTION TEST WILL BE CONDUCTED AT LEAST ONE WEEK PRIOR TO LAUNCH. THE MILA TRACKING STATION WILL OBTAIN THE JDMTA RECORDINGS (via PATRICK AFB COURIER SERVICE) AND FORWARD THEM TO JSC 10 DAYS AFTER END OF MISSION FOR REPRODUCTION AND DISTRIBUTION AS REQUIRED. WLPS WILL FORWARD THEIR RECORDING TO JSC. THE SHIPPING ADDRESS IS AS FOLLOWS:

CATHERINE G. SHAM
NASA JOHNSON SPACE CENTER
MAIL CODE EV7
2101 NASA PARKWAY
HOUSTON, TEXAS 77058

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA/PDL WLPS

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 581599
ITEM NUMBER: KTY109G

RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/08/05

[PRD] DATABASE RECORD: 587077 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/16/06
INITIAL DATE: 05/16/06
ITEM NUMBER: K110GK DATE LAST CHANGED: 11/16/06
SECTION: 2755 TIME LAST CHANGED: 07:13:29

REQUESTER: KSC
SUBREQUESTER: USK-122
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20026S
TRACKING NO. R0605-1

1. DESCRIPTION: SHUTTLE DATA STREAM (SDS) TO DFRC

KSC REQUIRES A 1544 KB CIRCUIT FROM THE LCC TO DFRC FOR TRANSMISSION OF SHUTTLE DATA STREAM. KSC SHALL ROUTE THE SDS TO DFRC AS REQUIRED.

TECHNICAL CONTACT: GARTH TURNER/321 861-7698
ROD THORNTON/321 867-2241

REF. LLS2734, ITEM K52G, DBR 585817

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/18/06

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/16/06

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 589957 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/09/06
INITIAL DATE: 11/09/06
ITEM NUMBER: T111EK DATE LAST CHANGED: 11/09/06
SECTION: 2755 TIME LAST CHANGED: 12:01:27

REQUESTER: JSC
SUBREQUESTER: JSC/MS
TEST CODE:

ASSOCIATED DOC: 20007S
TRACKING NO. R0611-2

1. DESCRIPTION: 2.4 KB/S LTAS FOR NASA ASCENT DEBRIS RADAR

PROVIDE 2.4 KB/S LTAS TO KSC FOR DISTRIBUTION TO NASA C-BAND ASCENT DEBRIS RADAR (NDRC-1).

FROM	TO
CCAFS XY BLDG	KSC CDSC FOR DISTRIBUTION TO NDRC-1 AT NCAR

POINT OF CONTACT: JSC/MS/TONY GRIFFITH/281 244-5813
ER/1 ROPS/DOUF/MICHAEL GAWEL/321 853-8118

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/09/06

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/09/06

[PRD] DATABASE RECORD: 589958 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/26/07
INITIAL DATE: 11/09/06
ITEM NUMBER: T112EK DATE LAST CHANGED: 04/26/07
SECTION: 2755 TIME LAST CHANGED: 08:47:35

REQUESTER: JSC
SUBREQUESTER: JSC/MS
TEST CODE:

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 589958
ITEM NUMBER: T112EK

ASSOCIATED DOC: 20007S
TRACKING NO. R0611-2 R0701-8

1. DESCRIPTION: TIMING AND FIRST MOTION SIGNAL FOR NASA ASCENT DEBRIS RADAR

CIRCUIT	FROM	TO
CS-5	CCAFS XY BLDG	KSC CDSC FOR DISTRIBUTION TO NDRC-1 AT NCAR

POC: JSC/TONY GRIFFITH/281 244-5813
ER/MIKE GAWEL/321 853-8118

REMARKS: PROVIDE CS-5 SIGNAL TO KSC FOR DISTRIBUTION TO NASA C-BAND ASCENT DEBRIS RADAR (NDRC-1). THIS CS-5 SIGNAL TRANSMISSION TO NDR SHOULD COMMENCE AT APPROXIMATELY L-48 HOURS.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/26/07

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/26/07

[PRD] DATABASE RECORD: 589959 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/09/06
INITIAL DATE: 11/09/06
ITEM NUMBER: T113EK DATE LAST CHANGED: 11/09/06
SECTION: 2755 TIME LAST CHANGED: 12:02:44

REQUESTER: JSC
SUBREQUESTER: JSC/MS
TEST CODE:

ASSOCIATED DOC: 20007S

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 589959
ITEM NUMBER: T113EK

TRACKING NO. R0611-2

1. DESCRIPTION: DIAL-UP MODEM SUPPORT FOR NASA ASCENT DEBRIS RADARS

PROVIDE 2.4 KB/S EFG ACQUISITION DATA TO TWO DIAL-UP MODEMS FOR NASA DEBRIS RADARS. DATA INTERFACE IS REQUIRED ON RANGE F-1 DAY AND DAY OF LAUNCH (L-3H:15M THROUGH ORBITER ASCENT). THE OPERATING LOCATION OF THE TWO TRANSPORTABLE X-BAND RADARS WILL BE SELECTED FROM THE FOUR SITES LISTED BELOW:

1. NDRC-1: C-BAND AT NCAR
2. NDRX-1: X-BAND AT NCAR (THIS CAPABILITY IS NOT TYPICALLY USED)
3. NDRX-3: X-BAND ON NORTHERN SRB SHIP
4. NDRX-4: X-BAND ON SOUTHERN SHIP/PLATFORM

POINT OF CONTACT: JSC/MS/TONY GRIFFITH/281 244-5813
ER/1 ROPS/DOUF/MICHAEL GAWEL/321 853-8118

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/09/06

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/09/06

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2756 - VOICE RADIO TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 349482 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/09/06
INITIAL DATE: 05/27/88
ITEM NUMBER: K1X DATE LAST CHANGED: 03/20/07
SECTION: 2756 TIME LAST CHANGED: 13:20:47

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S 25022S
TRACKING NO. COMREV05 DB98 KING2001 L4314 R0610-1
R109-41 R26165 R2809
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING SUPPORT AT EAFB.

1. DESCRIPTION: DFRC VOICE RADIO

PROVIDE AT DFRC VOICE RADIO COMMUNICATIONS TO INCLUDE FIELD MAINTENANCE AND SERVICING OF THE FOLLOWING KSC PROVIDED UHF RADIOS AND BASE STATIONS:

74 EACH	PORTABLE RADIOS (MX300 SERIES)	
1 EACH	BASE STATION	CONVOY COMMANDER NET
1 EACH	BASE STATION	COOLING NET
1 EACH	BASE STATION (RECORD/MONITOR)	PURGE NET
1 EACH	BASE STATION	PAYLOADS NET
1 EACH	BASE STATION	BACKUP

NOTE: CONVOY COMMANDER, COOLING AND PURGE NETS USED SIMULTANEOUSLY DURING POST LANDING OPERATIONS. THEY ARE ALSO USED FOR OTHER OPERATIONS INCLUDING SCAPE, AT OTHER TIMES.

PRIME: KSC/PH-L/DEAN SCHAAF/321 861-9301
TECHNICAL CONTACT: KSC/USK-426/MIKE KUTA/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/10/06
RESPONSE TRACKING: Z2656 Z4340

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2756 - VOICE RADIO TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 212078 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/26/89
INITIAL DATE: 06/26/89
ITEM NUMBER: E4X DATE LAST CHANGED: 03/20/07
SECTION: 2756 TIME LAST CHANGED: 13:22:23

REQUESTER: ER
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. COMREV05 KING2001 R109-41 R2809 R2893
PRIORITY: MANDATORY
RATIONALE: MISSION SUCCESS

1. DESCRIPTION: TUNABLE UHF/AM UNIT DFRC CONTROL ROOM

PROVIDE TUNABLE UHF/AM RECEIVE/TRANSMIT UNIT IN
THE DFRC CONTROL ROOM (BLDG. 4833) FOR TWO-WAY
TRANSMISSION FROM THE EAFB COORDINATOR'S CONSOLE.

TECHNICAL CONTACT: DEAN SCHAAF/PH-L/321 861-9311
MIKE KUTA/USK-426/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/07/89
RESPONSE TRACKING: Z2877

[PRD] DATABASE RECORD: 361509 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/28/05
INITIAL DATE: 09/26/89
ITEM NUMBER: K5Z DATE LAST CHANGED: 08/09/06
SECTION: 2756 TIME LAST CHANGED: 09:22:59

REQUESTER: KSC
SUBREQUESTER: IT-D2-C
TEST CODE: 26002D MSBLS STSALL WSSH

ASSOCIATED DOC: 20027S 26002
TRACKING NO. COMREV05 DB98 KING2001 L3408 R0501-1

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2756 - VOICE RADIO TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 361509
ITEM NUMBER: K5Z

R0504-8 R109-41
PRIORITY: REQUIRED
RATIONALE: TERTIARY LANDING SITE. BECOMES MANDATORY FOR LANDING AT WSSH.

1. DESCRIPTION: GROUND OPERATIONS RADIO COMMUNICATIONS FOR NAVAIDS PERSONNEL

PROVIDE A UHF TRUNKING RADIO WITH WIDE AREA TWO WAY-RADIO SERVICE AND TELEPHONE CAPABILITY TO EACH PERSON INVOLVED IN MSBLS ACITIVITIES. RADIOS WILL OPERATE ON GROUND OPERATIONS TALK GROUP 800611.

TECH CONTACTS: KSC/PH-L/LOU GARCIA/321 861-6196
KSC/USK-426/MIKE KUTA/321 861-3980
WSTF/RC1/ROBERT MITCHELL/505 524-5774

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/15/05
RESPONSE TRACKING: Z0504-5 Z26146 Z3450

[PRD] DATABASE RECORD: 362464 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/15/05
INITIAL DATE: 09/19/89
ITEM NUMBER: K6Z DATE LAST CHANGED: 05/31/07
SECTION: 2756 TIME LAST CHANGED: 08:15:23

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: S0027.001 STSALL WSSH

ASSOCIATED DOC: 20027S 25044S
TRACKING NO. COMREV05 DB98 KING2001 L3408 R0501-1
R0501-1A R0504-8 R109-41 R2686
PRIORITY: REQUIRED
RATIONALE: TERTIARY LANDING SITE. BECOMES MANDATORY FOR LANDING AT WSSH.

1. DESCRIPTION: 45 HAND HELD RADIOS

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2756 - VOICE RADIO TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 362464
ITEM NUMBER: K6Z

PROVIDE 45 TRUNKING RADIOS FOR MISSION SUPPORT AT WSSH WITH
THE FOLLOWING TALK GROUPS FOR FREQUENCIES: (ADDITIONAL
RADIOS IF NEEDED WILL COME FROM WSTF RESOURCES AND DFRC).

412.6500Mhz, DCS 244, CRANE OPERATIONS
TALK GROUP 800605, COOLING
TALK GROUP 800581, AIRFIELD
TALK GROUP 800603, PURGE
TALK GROUP 800609, NASA/DOD
TALK GROUP 800607, CONVOY COMMAND
TALK GROUP 800611, GROUND OPERATIONS
TALK GROUP 800514, HSFS COORD
TALK GROUP 800673, MPS (OIS-168)
TALK GROUP 800585, EPDC (OIS-151)
TALK GROUP 800675, PRSD (OIS-153)
TALK GROUP 800559, TPE (OIS-161)

TECHNICAL CONTACT: KSC/PH-L/LOU GARCIA/321 861-6196
KSC/USK-426/MIKE KUTA/321 861-3890
WSTF/RC1/BOB MITCHELL/505 524-5774

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 04/15/05
RESPONSE TRACKING: Z0504-5 Z26127 Z26146 Z3450

[PRD] DATABASE RECORD: 226614 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/18/89
INITIAL DATE: 09/18/89
ITEM NUMBER: K9E DATE LAST CHANGED: 03/08/06
SECTION: 2756 TIME LAST CHANGED: 07:14:42

REQUESTER: KSC
SUBREQUESTER: TA-C2 TA-E
TEST CODE: CCAFS KSC STSALL
TRACKING NO. COMREV05 DB98 KING2001 L3401 R109-41
PRIORITY: REQUIRED
RATIONALE: REQUIRED FOR NORMAL LAUNCHES BECOMES MANDATORY FOR LAUNCHES

CONTINUED

[PRD] DATABASE RECORD: 226614
ITEM NUMBER: K9E

WITH RADIOACTIVE MATERIALS ON BOARD.

1. DESCRIPTION: ER RADIO NETS

PROVIDE THE FOLLOWING RADIO NETS TO KSC FOR EXTENSION TO RADCC: (O&C BUILDING, ROOM 4296) WITH THE CAPABILITY TO TRANSMIT AND RECEIVE ON A CONTINUOUS BASIS.

NET	TITLE	FREQ (MHZ)	CKT NO	OWNER
ER BB	ER RADIO OPS	163.5125	2RAC503	ER
ER D	CAPE SECURITY	163.4625	2RAC043	ER
ER F	CAPE FIRE	163.5625	2RAC044	ER

KSC CONTACT: RANDY SCOTT/TA-C/321 867-6958

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/18/89
RESPONSE TRACKING: Z3448

[PRD] DATABASE RECORD: 227983 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/18/89
INITIAL DATE: 09/18/89
ITEM NUMBER: K10E DATE LAST CHANGED: 03/08/06
SECTION: 2756 TIME LAST CHANGED: 07:14:42

REQUESTER: KSC
SUBREQUESTER: TA-C2
TEST CODE: CCAFS KSC STSALL
TRACKING NO. COMREV05 DB98 KING2001 L3401 R109-41
PRIORITY: REQUIRED
RATIONALE: REQUIRED FOR NORMAL LAUNCHES BECOMES MANDATORY FOR LAUNCHES WITH RADIOACTIVE MATERIALS ON BOARD.

1. DESCRIPTION: ER RADIO NET "B", ER RADIO OPS
ER RADIO NET "Y", RADIATION HAZARD

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2756 - VOICE RADIO TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 227983
ITEM NUMBER: K10E

PROVIDE RADIO NETS B (163.5125 MHZ) AND Y (164.5 MHZ) TO KSC FOR EXTENSION TO BLDG. L7-1557 (KSC ENVIRONMENTAL HEALTH FACILITY) WITH THE CAPABILITY TO TRANSMIT AND RECEIVE ON A CONTINUOUS BASIS.

KSC CONTACT: RANDY SCOTT/TA-C/321 867-6958

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/16/89
RESPONSE TRACKING: Z3486

[PRD] DATABASE RECORD: 195724 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/18/89
INITIAL DATE: 09/18/89
ITEM NUMBER: K11E DATE LAST CHANGED: 03/08/06
SECTION: 2756 TIME LAST CHANGED: 07:14:39

REQUESTER: KSC
SUBREQUESTER: TA-C2
TEST CODE: CCAFS STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 DB98 KING2001 L3401 R109-41
PRIORITY: REQUIRED
RATIONALE: REQUIRED FOR NORMAL LAUNCHES BECOMES MANDATORY FOR LAUNCHES WITH RADIOACTIVE MATERIALS ON BOARD.

1. DESCRIPTION: ER RADIO NET "Y", RADIATION HAZARD(L-4 HOURS)

PROVIDE BASE STATION SYSTEM AT CCAFS WITH REMOTE KEYING CAPABILITY TO KSC (O&C BLDG.; ROOM 4296). RADIO FREQUENCY TO BE USED IS 164.5 MHZ WITH NET NAME OF "RAD HAZ"(NET Y).

KSC CONTACT: RANDY SCOTT/TA-C/321 867-6958

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2756 - VOICE RADIO TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 195724
ITEM NUMBER: K11E

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/28/89
RESPONSE TRACKING: Z3455

[PRD] DATABASE RECORD: 360381 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/18/89
INITIAL DATE: 09/18/89
ITEM NUMBER: K11.1E DATE LAST CHANGED: 03/08/06
SECTION: 2756 TIME LAST CHANGED: 07:14:49

REQUESTER: KSC
SUBREQUESTER: TA-C2
TEST CODE: CCAFS STSALL
TRACKING NO. COMREV05 DB98 KING2001 L3401 R109-41
PRIORITY: MANDATORY
RATIONALE: REQUIRED TO BE PROVIDED AT THE CCAFS BLDG. 49635 FOR ENVIRONMENTAL HEALTH PERSONNEL LOCATED THERE FOR DCG PURPOSES.

1. DESCRIPTION: ER RADIO NET "Y", RADIATION HAZARD

PROVIDE NET "Y" TO CCAFS BUILDING 49635 (CCAFS DISPENSARY) ROOM 54 EAST WALL. CIRCUIT TO TERMINATE ON KSC PROVIDED END INSTRUMENT.

KSC CONTACT: RANDY SCOTT/TA-C/321 867-6958

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/16/89
RESPONSE TRACKING: Z3486

[PRD] DATABASE RECORD: 201125 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/21/98
INITIAL DATE: 09/18/89
ITEM NUMBER: K13E DATE LAST CHANGED: 02/13/07
SECTION: 2756 TIME LAST CHANGED: 09:06:11

REQUESTER: KSC
SUBREQUESTER: KSC/DYN-2 KSC/TA

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2756 - VOICE RADIO TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 201125
ITEM NUMBER: K13E

TEST CODE: CCAFS STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 KING2001 L3401 L9503 MK98
R109-41 R6517 SCRUB06 SHAW94
PRIORITY: REQUIRED
RATIONALE: REQUIRED FOR NORMAL SHUTTLE LAUNCHES BECOMES MANDATORY FOR LAUNCHES WITH RADIOACTIVE MATERIALS ON BOARD.

1. DESCRIPTION: ER RADIO NET "Y" , RADIATION HAZARD (L-5 HOURS)

PROVIDE RADIO NET "Y" WITH TRANSMIT/RECEIVE CAPABILITIES TO THE ENVIRONMENTAL EVALUATION CENTER (EEC) CONSOLES IN ROCC.

KSC CONTACTS: BURT SUMMERFIELD/TA/321 867-4598
CARLTON HALL/DYN-2/321 476-4101

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/26/98
RESPONSE TRACKING: Z3455 Z6505 Z9511

[PRD] DATABASE RECORD: 202677 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/30/89
INITIAL DATE: 06/30/89
ITEM NUMBER: T14DX DATE LAST CHANGED: 05/30/07
SECTION: 2756 TIME LAST CHANGED: 10:33:11

REQUESTER: JSC
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. KING2001 L906-8 R109-41 R2809 R2886

1. DESCRIPTION: EMERGENCY MEDICAL SERVICES SYSTEM RADIO NET

AT DFRC PROVIDE TALK/MONITOR ON THE EDWARDS MEDICAL NET AND ON 282.8 UHF/AM AT THE EMSS COORDINATOR'S CONSOLE IN BLDG. 4800,

CONTINUED

[PRD] DATABASE RECORD: 202677
ITEM NUMBER: T14DX

ROOM 3018. PROVIDE A TRANSCEIVER ON THE EDWARDS MEDICAL NET FOR THE CREW VAN.

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/07/89
RESPONSE TRACKING: Z2869

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/07/89
RESPONSE TRACKING: Z2869

[PRD] DATABASE RECORD: 203850 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/30/89
INITIAL DATE: 06/30/89
ITEM NUMBER: T15DE DATE LAST CHANGED: 05/30/07
SECTION: 2756 TIME LAST CHANGED: 10:33:12

REQUESTER: JSC
TEST CODE: S0027.001 STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. KING2001 L906-8 R109-41 R2886

1. DESCRIPTION: AT WSSH PROVIDE TALK/MONITOR ON THE WHITE SANDS SPACE HARBOR FIRE/CRASH NET AND ON 282.8 UHF/AM ON THE EMSS COORDINATOR'S CONSOLE IN THE WSSH OCC AT WSSH. PROVIDE A TRANSCEIVER ON THE WHITE SANDS SPACE HARBOR FIRE/CRASH NET FOR THE CREW VAN.

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/07/89

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2756 - VOICE RADIO TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 203850
ITEM NUMBER: T15DE

RESPONSE TRACKING: Z2869

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: WSMR
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/07/89
RESPONSE TRACKING: Z2869

[PRD] DATABASE RECORD: 326112 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/27/90
INITIAL DATE: 06/27/90
ITEM NUMBER: E17EK DATE LAST CHANGED: 03/08/06
SECTION: 2756 TIME LAST CHANGED: 07:14:47

REQUESTER: ER
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20028S
TRACKING NO. COMREV05 KING2001 L3401 LR1325 R109-41
R2809 R3803 R3807

1. DESCRIPTION: FIRE TAC RADIO RF NET 216 - KSC TO ER

PROVIDE CIRCUIT AND TERMINATIONS AS FOLLOWS:

REF	CIRCUIT	FROM	TO
E1K	RF NET 216 (173.7875)	KSC	CCAFS XY
E2E	SAME AS ABOVE	CCAFS XY	NEW CONSOLE IN FIREHOUSE

TECHNICAL CONTACT: ER/MIKE GAWEL/321 853-8118

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

CONTINUED

[PRD] DATABASE RECORD: 326112
ITEM NUMBER: E17EK

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/02/90
RESPONSE TRACKING: Z3448 Z3850

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/27/90
RESPONSE TRACKING: Z3448 Z3804 Z3812

[PRD] DATABASE RECORD: 15790 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/14/89
INITIAL DATE: 07/14/89
ITEM NUMBER: T19X DATE LAST CHANGED: 03/20/07
SECTION: 2756 TIME LAST CHANGED: 13:23:59

REQUESTER: JSC
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. KING2001 L2825 R109-41 R26205

1. DESCRIPTION: PROVIDE A VHF/AM RECEIVE/TRANSMIT UNIT FOR TEMPORARY INSTALLATION AT A DESIGINATED SHUTTLE SUPPORT HOSPITAL. UNIT SHOULD BE PORTABLE AND MAY BE INSTALLED/REMOVED DURING AND AFTER EACH SHUTTLE FLIGHT. ASSOCIATED COMMUNICATIONS LABOR AND EQUIPMENT TO INCLUDE

   ITEMS SUCH AS: ANTENNA, WIRING ETC. MUST ALSO BE PROVIDED.

   REMARKS: FREQUENCY 122.85 MHZ

   COORDINATION: JSC/DR. BOYCE AND JSC/KRUG INTERNATIONAL/DOUG RUSHING

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OA XE
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/14/89
RESPONSE TRACKING: Z26156 Z2898

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2756 - VOICE RADIO TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 15790
ITEM NUMBER: T19X

[PRD] DATABASE RECORD: 19520
DOCUMENT ID: LLS
ITEM NUMBER: K23EK
SECTION: 2756

REQUIREMENT STATUS: APPROVED
APPROVAL DATE: 10/03/89
INITIAL DATE: 10/03/89
DATE LAST CHANGED: 03/23/07
TIME LAST CHANGED: 07:53:06

REQUESTER: KSC
SUBREQUESTER: SA-B SOC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 DB98 KING2001 L3427 R2862
SCRUB06
PRIORITY: REQUIRED
RATIONALE: BACKUP - OIS 135 AND OIS 232.

1. DESCRIPTION: KSC SAFETY - RADIO NET 105/205 - KSC TO ER
(L-5 HOURS)

PROVIDE CIRCUIT AND TERMINATIONS AS FOLLOWS:

REF	CIRCUIT	FROM	TO
K1	RF NET 105/205	KSC EXT TO CCAFS XY	
E2			ER EXT FROM XY TO: 1. LRCC, CCAFS ROCC 2. ROCC LRCO CONS

POC: KSC/SA-B/DAVE RAINER/321 861-9320

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/03/89
RESPONSE TRACKING: Z3465

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2756 - VOICE RADIO TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 19520
ITEM NUMBER: K23EK

SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/03/89
RESPONSE TRACKING: Z2853 Z3465

[PRD] DATABASE RECORD: 19523 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/03/92
INITIAL DATE: 10/03/89
ITEM NUMBER: KD24EK DATE LAST CHANGED: 03/23/07
SECTION: 2756 TIME LAST CHANGED: 08:23:19

REQUESTER: KSC HSFS
SUBREQUESTER: KSC/TA-C SOC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 KING2001 L3427 L4503 MK98
R109-41 R2673 SCRUB06

1. DESCRIPTION: KSC MEDICAL RF NET 117 - KSC TO ER(L-3 HOURS)

PROVIDE CIRCUIT AND TERMINATIONS AS FOLLOWS:

REF	CIRCUIT	FROM	TO
1K	RF NET 117	KSC EXT TO CCAFS XY	
2E			ER EXT FROM XY TO: 1. CCAFS ROCC 2. OHF NURSES STATION BLDG #49635 RM. 7

POC: KSC/TA-C/DON DOERR/321 867-6387
TECHNICAL CONTACT: (D)DDMS-O/321-494-8581

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/04/92

CONTINUED

[PRD] DATABASE RECORD: 19523
ITEM NUMBER: KD24EK

RESPONSE TRACKING: Z3465 Z4518

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/04/92
RESPONSE TRACKING: Z2853 Z3465 Z4518

[PRD] DATABASE RECORD: 19524 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/14/99
INITIAL DATE: 10/03/89
ITEM NUMBER: D25EK DATE LAST CHANGED: 03/23/07
SECTION: 2756 TIME LAST CHANGED: 08:23:50

REQUESTER: HSFS
SUBREQUESTER: KSC/TA-C SOC
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 KING2001 L3427 L4503 R109-41
R2673 R9305 SCRUB06
PRIORITY: REQUIRED
RATIONALE: REQUIRED FOR CONTINGENCY MEDICAL INFORMATION FOR DoD MEDICAL SUPPORT.

1. DESCRIPTION: MEDCOM UHF - NET 517 - KSC TO ER

PROVIDE CIRCUIT AND TERMINATIONS AS FOLLOWS:

REF	CIRCUIT	FROM	TO
K1	UHF NET 517	KSC EXT TO CCAFS XY	
E2			ER EXT FROM XY TO CCAFS ROCC

TECHNICAL CONTACT: (D)DDMS-O/JAY SUMMERS/321-494-8581

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2756 - VOICE RADIO TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 19524
ITEM NUMBER: D25EK

RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/14/99
RESPONSE TRACKING: Z3465 Z4518 Z9305

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/14/99
RESPONSE TRACKING: Z3465 Z4518 Z9305

[PRD] DATABASE RECORD: 24082 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/22/90
INITIAL DATE: 10/22/90
ITEM NUMBER: K26EX DATE LAST CHANGED: 03/23/07
SECTION: 2756 TIME LAST CHANGED: 08:25:52

REQUESTER: KSC
SUBREQUESTER: IT-D2-B
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 L3845 R109-41 SCRUB06
PRIORITY: MANDATORY
RATIONALE: COMMUNICATION BETWEEN CONTROL ROOM AND LANDING OPERATIONS AT DFRC.

1. DESCRIPTION: RADIO CIRCUITS AT DFRC/EAFB

EAFB - PROVIDE SPACE AT EAFB, BLDG 1616 FOR INSTALLATION OF A NASA RADIO RECEIVER ENCLOSURE (1'X2'X4') AND ONE YAGI ANTENNA. ENCLOSURE WILL REQUIRE 120 VAC, 100 WATTS MAX POWER, FROM DUPLEX OUTLET. ALSO PROVIDE FOUR 2 WIRE-2 WAY AUDIO CIRCUITS BETWEEN DESIGNATED BUILDING AND DFRC BLDG 4800.

DFRC - PROVIDE FOUR 2 WIRE-2 WAY AUDIO CIRCUITS BETWEEN BLDG 4800 AND SHUTTLE COMM ROOM/BLDG 4834. PROVIDE CROSS CONNECTS TO EAFB CIRCUITS IN ITEM ABOVE.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2756 - VOICE RADIO TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 24082
ITEM NUMBER: K26EX

TECH CONTACT: WILLIAM MERRILL/IT-D2-Z/321 861-2268

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/25/90
RESPONSE TRACKING: Z3874

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: JOE D'AGOSTINO/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/22/90
RESPONSE TRACKING: Z3870

[PRD] DATABASE RECORD: 518255 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/24/92
INITIAL DATE: 01/16/92
ITEM NUMBER: K27DEK DATE LAST CHANGED: 05/31/07
SECTION: 2756 TIME LAST CHANGED: 08:21:30

REQUESTER: KSC
SUBREQUESTER: FR3/4 KSC/TA-C
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20017S 20028S
TRACKING NO. DB98 KING2001 L4209 L4601 R109-41
R4507
PRIORITY: REQUIRED
RATIONALE: BACKUP OIS 135

1. DESCRIPTION: ER NET 282.8 MHZ - DOD HELO TO KSC
EMERGENCY SUPERVISOR (L-5 HOURS)

PROVIDE CIRCUIT AND TERMINATIONS AS FOLLOWS:

REF CIRCUIT FROM TO

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2756 - VOICE RADIO TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 518255
ITEM NUMBER: K27DEK

K1E	282.8 MHZ	ER EXT	XY
K2K		EXT FROM XY	FR1/3 CONS AB7, AB8 & AC4

TECH CONTACT: ROD THORNTON/CSOC-102/321 867-2241
DON DOERR/TA-C/321 867-6387
HSFS-X/JAY SUMMERS/321-494-8581

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/24/92
RESPONSE TRACKING: Z4515

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/24/92
RESPONSE TRACKING: Z4529

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/24/92
RESPONSE TRACKING: Z4245 Z4525 Z4933

[PRD] DATABASE RECORD: 521711 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/08/94
INITIAL DATE: 11/23/92
ITEM NUMBER: T28K DATE LAST CHANGED: 03/23/07
SECTION: 2756 TIME LAST CHANGED: 08:26:58

REQUESTER: JSC
SUBREQUESTER: JSC/CA4 USK-426 VITT
TEST CODE: KSC LANDNG

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2756 - VOICE RADIO TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 521711
ITEM NUMBER: T28K

ASSOCIATED DOC: 20028S
TRACKING NO. KING2001 L03-1-1 L211-7 L507-5 L5326
L6204 R109-41 SHAW95

1. DESCRIPTION: RADIOS FOR VITT USE DURING KSC LANDING OPS

PROVIDE A TOTAL OF SIX HAND-HELD RADIOS FOR VITT USE DURING KSC LANDING OPERATIONS THESE RADIOS SHOULD HAVE THE CAPABILITY TO BE USED ON THE CONVOY COMMANDER, PURGE, AND COMMUNICATIONS NETS. THE RADIOS ARE A SAFETY REQUIREMENT FOR ALL PERSONNEL ON THE RUNWAY.

DISTRIBUTION WILL BE TO THE FOLLOWING PERSONNEL:
VITT (2), CTV (1), ASTROVAN (1), SECURITY (1), SPARE (1)

TECHNICAL CONTACT: ROBERT HANLEY/JSC/CA4/281 244-8654

POINT OF CONTACT: CASEY WOOD/USK-426/321 861-3920

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/08/94
RESPONSE TRACKING: Z5103 Z5409 Z6001 Z6026 Z6114
Z6205

[PRD] DATABASE RECORD: 554046 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/05/00
INITIAL DATE: 01/04/00
ITEM NUMBER: K29DEK DATE LAST CHANGED: 05/31/07
SECTION: 2756 TIME LAST CHANGED: 09:57:35

REQUESTER: KSC
SUBREQUESTER: FR3/4 KSC/TA-C
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20017S 20028S
TRACKING NO. KING2001 L9902 R109-41
PRIORITY: MANDATORY
RATIONALE: IN THE EVENT OF A MODE VII CONTINGENCY THE LRD REQUIRES

CONTINUED

[PRD] DATABASE RECORD: 554046
ITEM NUMBER: K29DEK

A COMMUNICATION LINK WITH THE NASA AND DoD HELICOPTER
PILOTS FOR INITIAL DECLARATION OF THE CONTINGENCY OPERATION.

1. DESCRIPTION: ER NET 138.45 MHZ - HSFS SEARCH AND RESCUE
EMERGENCY SUPERVISOR (L-5 HOURS)

PROVIDE CIRCUIT AND TERMINATIONS AS FOLLOWS:

REF	CIRCUIT	FROM	TO
1	138.45	ER EXT	XY
2		EXT FROM XY	FR 3/4 CONS AB7, & AB8

TECH CONTACT: ROD THORNTON/KICS-105/321 867-2241
LRD/PH-L/321-861-9300
HSFS-0/JAY SUMMERS/321 494-8581

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/10/00
RESPONSE TRACKING: Z101-4

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/12/00
RESPONSE TRACKING: Z9908

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/05/00
RESPONSE TRACKING: Z9906

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2757 - MISCELLANEOUS TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 205682 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/19/89
INITIAL DATE: 09/19/89
ITEM NUMBER: K1X DATE LAST CHANGED: 03/20/07
SECTION: 2757 TIME LAST CHANGED: 13:24:38

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB S5022.200 STSALL

ASSOCIATED DOC: 20026S 25022S
TRACKING NO. COMREV05 DB98 KING2001 L3411 L4314
R109-60 R2809
PRIORITY: MANDATORY
RATIONALE: SAFETY REQUIREMENT

1. DESCRIPTION: PAGING/AREA WARNING SYSTEM AT DFRC

MAINTAIN KSC PROVIDED PAGING/AREA WARNING SPEAKERS
IN ALL OCCUPIED AREAS IN THE VICINITY OF THE ORBITER HANGAR, MDD,
PROPELLANT STORAGE AREA, TRAILERS AND MODULAR AREAS.
TRANSMIT CAPABILITIES ARE REQUIRED FROM HANGAR ROOM 102,
THE HANGAR FLOOR AND THE MDD.

PRIME: KSC/PH-L/DEAN SCHAAF/321 861-9311
TECHNICAL CONTACT: KSC/USK-426/MIKE KUTA/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/08/91
RESPONSE TRACKING: Z3453 Z4340

[PRD] DATABASE RECORD: 210474 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/15/89
INITIAL DATE: 09/15/89
ITEM NUMBER: K2D DATE LAST CHANGED: 05/30/07
SECTION: 2757 TIME LAST CHANGED: 10:33:12

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DODALS DODELS STSALL

ASSOCIATED DOC: 25044S

CONTINUED

[PRD] DATABASE RECORD: 210474
ITEM NUMBER: K2D

TRACKING NO. COMREV05 DB98 KING2001 L3404 R109-60 R2809
PRIORITY: REQUIRED
RATIONALE: ALTERNATE SOURCE - HANDHELD BULLHORNS.

1. DESCRIPTION: PAGING/AREA WARNING SYSTEM AT DOD ALS/ELS

PROVIDE AND MAINTAIN THREE PORTABLE PAGING/AREA WARNING UNITS FOR USE BY THE GROUND TRUNAROUND TEAM AT THE DOD ALS/ELS. HAND-HELD "BULLHORNS"

WILL MEET THIS REQUIREMENT.

POINT OF CONTACT: DDMS-0/JAY SUMMERS/321-494-8581
KSC/PH-L/DENNY GAGEN/321 861-9301

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/10/89
RESPONSE TRACKING: Z3478

[PRD] DATABASE RECORD: 211388 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/07/02
INITIAL DATE: 09/19/89
ITEM NUMBER: K3X DATE LAST CHANGED: 03/20/07
SECTION: 2757 TIME LAST CHANGED: 13:25:40

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. COMREV05 DB98 KING2001 L3411 R109-60 R2809
PRIORITY: REQUIRED
RATIONALE: ALTERNATE COMMUNICATION SOURCES AVAILABLE.

1. DESCRIPTION: FACSIMILE REQUIREMENTS AT DFRC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2757 - MISCELLANEOUS TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 211388
ITEM NUMBER: K3X

PROVIDE OFF-SITE RAPIFAX SERVICE FROM EXISTING TERMINAL IN AREA A.

PRIME: KSC/PH-L/DEAN SCHAAF/321 861-9311
TECHNICAL CONTACT: KSC/USK-426/MIKE KUTA/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FI
RESPONDER: GEORGE GRIMSHAW/661 276-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/07/02
RESPONSE TRACKING: Z3453

[PRD] DATABASE RECORD: 212281 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/07/88
INITIAL DATE: 03/07/88
ITEM NUMBER: K4Z DATE LAST CHANGED: 11/03/05
SECTION: 2757 TIME LAST CHANGED: 09:11:28

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. COMREV05 DB98 KING2001 R109-60 R2686
PRIORITY: REQUIRED
RATIONALE: ALTERNATE COMMUNICATION SOURCES AVAILABLE.

1. DESCRIPTION: FACSIMILE REQUIREMENTS AT WHITE SANDS SPACE HARBOR

PROVIDE AND MAINTAIN ONE VOICE-FREQUENCY FACSIMILE TERMINAL FOR
USE OVER TELEPHONE CIRCUITS BETWEEN WSSH AND NASA CENTERS.

PRIME: KSC/PH-L/LOU GARCIA/321 861-6196
TECHNICAL CONTACT: KSC/USK-426/MIKE KUTA/321 861-3890
WSTF/ROBERT MITCHELL/505 524-5774

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/29/88

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2757 - MISCELLANEOUS TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 212281
ITEM NUMBER: K4Z

RESPONSE TRACKING: Z26127

[PRD] DATABASE RECORD: 580761 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/09/05
INITIAL DATE: 03/09/05
ITEM NUMBER: KTY7G DATE LAST CHANGED: 01/11/07
SECTION: 2757 TIME LAST CHANGED: 12:33:17

REQUESTER: KSC JSC NASA HQ
SUBREQUESTER: KSC/NE-M7
TEST CODE: LAUNCH PREFLT STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 L06-11-1 R0504-7

1. DESCRIPTION: VOICE REQUIREMENTS FOR ET TV VIDEO SUPPORT

RESPONSIBLE AGENCY: GSFC

WALLOPS IS RESPONSIBLE FOR PROVIDING A LOCAL COMMUNICATIONS INTERFACE TO/FROM THE PORTABLE EARTH STATION VAN FOR COMMUNICATION BETWEEN THE VAN OPERATOR AND LOCAL TV OPERATIONS FOR COORDINATION OF ET TV VIDEO.

POC: KSC/PH-H3/TOM FORD/321 861-3635
JSC/MS2/CHRISTINE BOYKIN/281 483-1251
JSC/MO3-USA/RAY BANKS/281 483-8233

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/09/05

[PRD] DATABASE RECORD: 580762 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/09/05
INITIAL DATE: 03/09/05
ITEM NUMBER: KTY8E DATE LAST CHANGED: 01/11/07
SECTION: 2757 TIME LAST CHANGED: 12:33:17

REQUESTER: KSC JSC NASA HQ

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2757 - MISCELLANEOUS TERMINATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 580762
ITEM NUMBER: KTY8E

SUBREQUESTER: KSC/NE-M7
TEST CODE: LAUNCH PREFLT STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 L06-11-1 R0504-7

1. DESCRIPTION: VOICE REQUIREMENTS FOR ET TV VIDEO SUPPORT

RESPONSIBLE AGENCY: ER

ER/JDMTA IS RESPONSIBLE FOR PROVIDING A LOCAL COMMUNICATION INTERFACE (LOCAL NET) BETWEEN THE PORTABLE EARTH STATION VAN OPERATOR AND LOCAL TV OPERATIONS PERSONNEL FOR COORDINATION OF ET TV VIDEO.

POC: KSC/PH-H3/TOM FORD/321 861-3635
JSC/MS2/CHRISTINE BOYKIN/281 483-1251
JSC/M03-USA/RAY BANKS/281 483-8233

TECH CONTACT: MIKE GAWEL/321 853-8118

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 06/14/05
RESPONSE: THE NASA PORTABLE ESTA MUST ARRIVE AT JDMTA AT OR BEFORE 0800 L ON L-1 TO CHECK OUT INTERCONNECTIONS BETWEEN THE PORTABLE EQUIPMENT AND RESOLVE ANY UNFORESEEN ISSUES AND LESSEN ANY POTENTIAL INTERFERENCE WITH ER INSTRUMENTATION SETUP REQUIREMENTS AT JDMTA. THE ER SITE PERSONNEL RETAIN THE AUTHORITY TO DIRECT THE ESTA TO STOP RADIATING IF AT ANY TIME DURING THE MISSION THE ESTA INTERFERES WITH ER RANGE SAFETY RADAR TRACKING, TELEMETRY RECEPTION, OR COMMAND DESTRUCT SYSTEMS.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2760 - COMMUNICATIONS RECORDINGS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD:	5004	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	LLS	APPROVAL DATE:	12/06/93
		INITIAL DATE:	09/19/89
ITEM NUMBER:	K2X	DATE LAST CHANGED:	03/20/07
SECTION:	2760	TIME LAST CHANGED:	13:26:14

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-550
TEST CODE: EAFB S0027.001 STSALL

ASSOCIATED DOC: 20026S 20027S 25022S
TRACKING NO. COMREV05 DB98 KING2001 L3411 L4314
L6110 R109-55 R2809
PRIORITY: MANDATORY
RATIONALE: SAFETY REQUIREMENT - RECORDING CRITICAL DATA FROM MANDATORY ITEMS.

1. DESCRIPTION: AUDIO RECORDING

STA OR LOC: DFRC
RECORD RQMTS: GROUND OIS CHANNELS OR RADIO NETS 1,2,3,4,6,7,8,9,10
AUD/VIDEO RCRD;
A.START: AS SCHED
B.STOP: AS SCHED
C.A/V: A
D.SPEED:
E.REEL SIZE:
TIME CORRL;
A.YES: X
B.NO:
REMARKS:

SPA CH	TITLE
1	LRD
2	OTC
3	COOL NET (168.0 MHZ)
4	CNV CMD NET (164.1 MHZ)
6	PURGE NET (162.6125 MHZ)
7	LFP-1 (ORB SYS B)
8	PE-1 (ORB SYS C)
9	A/G-1 (ORB SYS D)
10	ORB UHF

DATA DISPOSITION:

CONTINUED

[PRD] DATABASE RECORD: 5004
ITEM NUMBER: K2X

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	AUDIO TAPE	1	R/T	RETAIN UNTIL NEXT ORBITER TURN AROUND AT DFRC

PRIME: KSC/PH-L/DEAN SCHAAF/321 861-9311
TECHNICAL CONTACT: KSC/USK-426/MIKE KUTA/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/06/93
RESPONSE TRACKING: Z3453 Z4340 Z6121

[PRD] DATABASE RECORD: 5005 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/22/88
INITIAL DATE: 03/22/88
ITEM NUMBER: K3X DATE LAST CHANGED: 03/20/07
SECTION: 2760 TIME LAST CHANGED: 13:26:53

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L
TEST CODE: EAFB STSALL TVPLAN

ASSOCIATED DOC: 20026S
TRACKING NO. COMREV05 DB98 KING2001 R109-55 R26134
R2809
PRIORITY: REQUIRED
RATIONALE: VIDEO NOT MANDATORY.

1. DESCRIPTION: VIDEO RECORDING
STA OR LOC: EAFB
RECORD RQMTS: RECORD VIDEO FROM TV CAMERA-CONVOY MOBILE UNIT AT EAFB
AUD/VIDEO RCRD;
A. START: TO BE CO-SHARED WITH PAO AND TO BE USED FOR CONTINGENCY OPERATIONS.
B.STOP: TO BE CO-SHARED WITH PAO AND TO BE USED FOR CONTINGENCY OPERATIONS.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2760 - COMMUNICATIONS RECORDINGS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 5005
ITEM NUMBER: K3X

C.A/V: V
D.SPEED: STD
E.REEL SIZE: STD
TIME CORRL;
A.YES: X
B.NO:
REMARKS:

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	TV TAPE	1	IF REQ	KSC ON SITE PERSONNEL (RETAIN ORIG FOR 10 DAYS)

POINT OF CONTACT: KSC/PH-L/DEAN SCHAAF/321 861-9311
TECHNICAL CONTACT: KSC/USK-426/MIKE KUTA/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/16/88
RESPONSE TRACKING: Z2695

[PRD] DATABASE RECORD: 5008 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/26/88
INITIAL DATE: 03/22/88
ITEM NUMBER: K4T DATE LAST CHANGED: 10/31/05
SECTION: 2760 TIME LAST CHANGED: 08:06:52

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L KSC/XA-E1 PAWSSH
TEST CODE: EAFB STSALL TVPLAN WSSH

ASSOCIATED DOC: 20026S 20027S
TRACKING NO. COMREV05 DB98 KING2001 L2646 L2647
R109-55 R26134 R26238

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2760 - COMMUNICATIONS RECORDINGS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 5008
ITEM NUMBER: K4T

PRIORITY: REQUIRED
RATIONALE: VIDEO NOT MANDATORY

1. DESCRIPTION: VIDEO RECORDING-WSSH
STA OR LOC: WHITE SANDS SPACE HARBOR
RECORD RQMTS: RECORD VIDEO FROM TV CAMERA-CONVOY MOBILE UNIT AT WSSH
AUD/VIDEO RDRC;
A.START: TO BE CO-SHARED WITH PAO AND TO BE USED FOR CONTINGENCY OPERATIONS.
B.STOP: TO BE CO-SHARED WITH PAO AND TO BE USED FOR CONTINGENCY OPERATIONS.
C.A/V: V
D. SPEED: STD
E.REEL SIZE: STD
TIME CORRL;
A.YES: X
B.NO:
REMARKS:

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	TV TAPE	1	IF REQ	KSC ON SITE PERSONNEL (RETAIN ORIG FOR 10 DAYS)

PRIME: KSC/PH-L/LOU GARCIA/321 861-6196
TECHNICAL CONTACT: KSC/USK-426/MIKE KUTA/321 861-3890

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/28/88
RESPONSE TRACKING: Z26225

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2760 - COMMUNICATIONS RECORDINGS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 5009 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/18/89
INITIAL DATE: 09/18/89
ITEM NUMBER: K5E DATE LAST CHANGED: 03/08/06
SECTION: 2760 TIME LAST CHANGED: 07:14:31

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L
TEST CODE: CCAFS STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 KING2001 MK98

1. DESCRIPTION: AUDIO RECORDING (L-5 HOURS)
STA OR LOC: CCAFS
RECORD RQMTS: RECORD FLIGHT CREW EMERGENCY RADIO
282.8 MHZ
AUD/VIDEO RCRD:
A.START:
B.STOP:
C.A/V: A
D.SPEED: STD
E.REEL SIZE: STD
TIME CORRL:
A.YES: X
B.NO:
REMARKS:

DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	AUDIOTAPE	1	*	* RETAIN ON SITE FOR 60 DAYS THEN REUSE IF NOT CALLED FOR.

PRIME: KSC/PH-L/JEFF SPAULDING/321 861-9306

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/18/89

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2760 - COMMUNICATIONS RECORDINGS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 5009
ITEM NUMBER: K5E

RESPONSE TRACKING: Z3448

[PRD] DATABASE RECORD: 15307 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/25/88
INITIAL DATE: 04/25/88
ITEM NUMBER: K7TX DATE LAST CHANGED: 03/20/07
SECTION: 2760 TIME LAST CHANGED: 13:28:01

REQUESTER: KSC
SUBREQUESTER: PAWSSH XA-E1
TEST CODE: EAFB STSALL TVPLAN WSSH

ASSOCIATED DOC: 20026S 20027S
TRACKING NO. DB98 KING2001 L210-1 L2647 R109-55
R26156
PRIORITY: REQUIRED
RATIONALE: ALTERNATE VIDEO SOURCES AVAILABLE.

1. DESCRIPTION: RECORDINGS - VIDEO TAPE PAO

A. PROVIDE RECORDINGS FOR ALL CAMERAS. THE VIDEO RECORDINGS SHALL INCLUDE A TIME CODE TRACK SO THEY CAN BE USED FOR DATA ANALYSIS. UNEDITED REPLAYS SHALL BE DISTRIBUTED ON NASA SELECT.

B. PROVIDE TWO ORIGINAL RECORDINGS OF EACH CAMERA, CONSISTENT WITH THE APPLICABLE CONTINGENCY PLANS AND IF SUFFICENT RECORDERS ARE AVAILABLE.

NOTE 1: IF A CONTINGENCY OCCURS THAT REQUIRES DATA IMPOUNDMENT, ONE SET OF ORIGINAL RECORDINGS SHALL BE PRESERVED FOR EVALUATION AND THE SECOND SET SHALL BE USED FOR APPROVED REPLAYS AND TO MAKE A REPRODUCTION MASTER AND RELEASABLE COPIES.

NOTE 2: SPECIFIC REQUIREMENTS ARE IN JSC PHOTO PLAN.

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/22/88

CONTINUED

[PRD] DATABASE RECORD: 15307
ITEM NUMBER: K7TX

RESPONSE TRACKING: Z2758

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/27/88
RESPONSE TRACKING: Z26216

[PRD] DATABASE RECORD: 18297 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/06/89
INITIAL DATE: 04/06/89
ITEM NUMBER: Y9K DATE LAST CHANGED: 06/05/07
SECTION: 2760 TIME LAST CHANGED: 13:52:22

REQUESTER: NASA HQ
SUBREQUESTER: KSC/MK-SIO
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 L3010 R109-55

1. DESCRIPTION: AUDIO RECORDINGS

RECORD AUDIO CIRCUIT OPO (ORBITER PROJECT OFFICE)
FROM T-12 HRS THROUGH T-0 FOR LAUNCH COUNTDOWN (S0007)

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/07/89
RESPONSE TRACKING: Z3025

[PRD] DATABASE RECORD: 579940 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/01/05
INITIAL DATE: 02/01/05
ITEM NUMBER: T10Z DATE LAST CHANGED: 04/04/07
SECTION: 2760 TIME LAST CHANGED: 07:21:44

REQUESTER: JSC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2760 - COMMUNICATIONS RECORDINGS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 579940
ITEM NUMBER: T10Z

TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. R0501-1 R0504-8

1. DESCRIPTION: VOICE RECORDING AND PLAYBACK SYSTEM

RESPONSIBLE AGENCY: WSTF

PROVIDE VOICE RECORDING AND PLAYBACK SYSTEM CAPABLE OF SIMULTANEOUS RECORDING OF A LEAST 20 VOICE CHANNELS AND PLAYBACK INTO THE SPECIFIED CONSOLES. SYSTEM SHALL HAVE THE CAPABILITY TO PLAY BACK TO MCC.

TECHNICAL CONTACT: WSTF/ZIGGY ZAPEN/505 524-5556

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/15/05
RESPONSE TRACKING: Z0504-5

[PRD] DATABASE RECORD: 583619 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/28/05
INITIAL DATE: 06/28/05
ITEM NUMBER: KTY11EGK DATE LAST CHANGED: 01/11/07
SECTION: 2760 TIME LAST CHANGED: 12:33:18

REQUESTER: KSC JSC NASA HQ
SUBREQUESTER: KSC/NE-M7 KSC/PH-L
TEST CODE: LAUNCH PREFLT STSALL TVPLAN

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 L06-11-1 R0504-7

1. DESCRIPTION: EXTERNAL TANK TV CAMERA REAL TIME AND PLAYBACK SUPPORT

TYPE OF

CONTINUED

[PRD] DATABASE RECORD: 583619
ITEM NUMBER: KTY11EGK

REF	SERVICE	FROM	TO	REMARK
T1	R/T VIDEO INTERFACE	JDMTA	KSC	VIDEO VIA PORTABLE ESTA (JDMTA DEMARC WILL BE AT THE PORTABLE ESTA, THE ELECTRICAL INTERFACE IS RS170)
T2	P/B VIDEO	JDMTA	KSC	VIDEO VIA PORTABLE ESTA (JDMTA DEMARC WILL BE AT THE PORTABLE ESTA, THE ELECTRICAL INTERFACE IS RS170)
T3	R/T VIDEO INTERFACE	WALLOPS	KSC	VIDEO VIA PORTABLE ESTA (WLPS GN DEMARC WILL BE AT THE PORTABLE ESTA, THE ELECTRICAL INTERFACE IS RS170)
T4	P/B VIDEO	WALLOPS	KSC	ANALOG VIDEO VIA PORTABLE ESTA. WLPS GN DEMARC WILL BE THE PORTABLE ESTA, THE ELECTRICAL INTERFACE IS RS170. DIGITAL VIDEO VIA 10Mbps PIP SERVICE. WLPS GN DEMARC WILL BE AT THE INPUT TO NISN SERVICE. THE ELECTRICAL INTERFACE IS 10baseT.
T5	P/B VIDEO	MILA	KSC	ANALOG VIDEO VIA HARDLINE INTERFACE WITH CD&SC. MILA DEMARC WILL BE AT THE INPUT TO KSC FIBER SERVICE AT MILA FIBER ROOM. THE ELECTRICAL INTERFACE IS RS170. DIGITAL VIDEO VIA

CONTINUED

[PRD] DATABASE RECORD: 583619
ITEM NUMBER: KTY11EGK

10Mbps IP SERVICE. MILA
DEMARC WILL INPUT TO KSC
IP SERVICE. THE ELECTRICAL
INTERFACE IS RS170.

T6	R/T & P/B VIDEO	PDL	KSC	RECEIVE/RECORD, VIDEO HANDCARRIED TO MILA

POC: KSC/PH-H3/TOM FORD/321 861-3635
JSC/MS2/CHRISTINE BOYKIN/281 483-1251
JSC/M03-USA/RAY BANKS/281 483-8233

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 06/28/05
RESPONSE: THE NASA PORTABLE ESTA MUST ARRIVE AT JDMTA AT
OR BEFORE 0800 L ON L-1 TO CHECK OUT INTERCONNECTIONS BETWEEN
THE PORTABLE EQUIPMENT AND RESOLVE ANY UNFORSEEN ISSUES AND LESSEN
ANY POTENTIAL INTERFERENCE WITH ER INSTRUMENTATION SETUP REQUIREMENTS
AT JDMTA. THE ER SITE PERSONNEL RETAIN THE AUTHORITY TO DIRECT THE
ESTA TO STOP RADIATING IF ANY TIME DURING THE MISSION THE ESTA
INTERFERES WITH ER RANGE SAFETY RADAR TRACKING, TELEMETRY RECEPTION,
OR COMMAND DESTRUCT SYSTEMS.

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/28/05

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
RESPONDER: JAMES (MIKE) WILLIAMSON/321 867-4123

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/28/05

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2770 - TELEPHONE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 183977 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/19/89
INITIAL DATE: 09/19/89
ITEM NUMBER: K3X DATE LAST CHANGED: 03/20/07
SECTION: 2770 TIME LAST CHANGED: 13:28:46

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L KSC/USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S 25022S
TRACKING NO. COMREV05 DB98 KING2001 L3411 R109-40
R2809
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR DFRC LANDING SUPPORT.

1. TYPE:
2. NUMBER;
A. CL:
B. LINE: 20
C. EXT:
3. LOCATION;
A. STATION: DFRC
B. BLDG.: 4833
C. ROOM:
D. OTHER:
4. REMARKS: ORBITER HANGAR

PRIME: KSC/PH-L/DEAN SCHAAF/321 861-9311
TECH CONTACT: KSC/USK-426/MIKE KUTA/321 861-3980

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/25/89
RESPONSE TRACKING: Z3453

[PRD] DATABASE RECORD: 184346 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/19/89
INITIAL DATE: 09/19/89
ITEM NUMBER: K4X DATE LAST CHANGED: 03/20/07

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2770 - TELEPHONE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 184346
ITEM NUMBER: K4X

SECTION: 2770 TIME LAST CHANGED: 13:29:24

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L KSC/USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S 25022S
TRACKING NO. COMREV05 DB98 KING2001 L3411 R109-40
R2809
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR DFRC LANDING SUPPORT.

1. TYPE:
2. NUMBER;
A. CL:
B. LINE: 40
C. EXT:
3. LOCATION;
A. STATION: DFRC
B. BLDG.: N/A
C. ROOM:
D. OTHER:
4. REMARKS: ORBITER COMPLEX

PRIME: KSC/PH-L/DEAN SCHAAF/321 861-9311
TECHNICAL CONTACT: KSC/USK-426/MIKE KUTA/321 861-3
890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/25/89
RESPONSE TRACKING: Z3453

[PRD] DATABASE RECORD: 184683 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/19/89
INITIAL DATE: 09/19/89
ITEM NUMBER: K5X DATE LAST CHANGED: 03/20/07
SECTION: 2770 TIME LAST CHANGED: 13:30:50

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2770 - TELEPHONE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 184683
ITEM NUMBER: K5X

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S 25022S
TRACKING NO. DB98 KING2001 L3411 R109-40 R2809
PRIORITY: MANDATORY
RATIONALE: REQUIRED COMMUNICATION WITH PROPELLANT STORAGE AREA.

1. TYPE:
2. NUMBER;
A. CL:
B. LINE: 1
C. EXT:
3. LOCATION;
A. STATION: DFRC
B. BLDG.: N/A
C. ROOM:
D. OTHER:
4. REMARKS: PROPELLANT STORAGE AREA (EXPLOSION PROOF)

TECH CONTACT: DENNY GAGEN/PH-M1/321 861-9301
CASEY WOOD/USK-426/321 861-3920

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/25/89
RESPONSE TRACKING: Z3453

[PRD] DATABASE RECORD: 185050 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/19/89
INITIAL DATE: 09/19/89
ITEM NUMBER: K6X DATE LAST CHANGED: 03/20/07
SECTION: 2770 TIME LAST CHANGED: 13:31:25

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L KSC/USK-426
TEST CODE: EAFB STSALL

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2770 - TELEPHONE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 185050
ITEM NUMBER: K6X

ASSOCIATED DOC: 20026S 25022S
TRACKING NO. COMREV05 DB98 KING2001 L4311 R109-40 R2809
PRIORITY: MANDATORY
RATIONALE: REQUIRED COMMUNICATION WITH MDD LEVELS

1. TYPE:
2. NUMBER;
A. CL:
B. LINE: 3
C. EXT:
3. LOCATION;
A. STATION: DFRC
B. BLDG.: MDD
C. ROOM:
D. OTHER:
4. REMARKS: 0', 20', 40' LEVELS (EXPLOSION PROOF)

PRIME: KSC/PH-L/DEAN SCHAAF/321 861-9311
TECHNICAL CONTACT: KSC/USK-426/MIKE KUTA/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/25/89
RESPONSE TRACKING: Z3453

[PRD] DATABASE RECORD: 186088 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/19/89
INITIAL DATE: 09/19/89
ITEM NUMBER: K8X DATE LAST CHANGED: 03/20/07
SECTION: 2770 TIME LAST CHANGED: 13:32:01

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L KSC/USK-426

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2770 - TELEPHONE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 186088
ITEM NUMBER: K8X

TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S 25022S
TRACKING NO. COMREV05 DB98 KING2001 L3411 R109-40
R2809
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR DFRC LANDING SUPPORT.

1. TYPE:
2. NUMBER;
A. CL:
B. LINE: 1
C. EXT:
3. LOCATION;
A. STATION: DFRC
B. BLDG.: MDD
C. ROOM:
D. OTHER:
4. REMARKS: ORBITER CREW CHIEF STATION

TECH CONTACT: KSC/PH-L/DEAN SCHAAF/321 861-9311
KSC/USK-426/MIKE KUTA/321 861-3980

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/25/89
RESPONSE TRACKING: Z3453

[PRD] DATABASE RECORD: 186439 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/19/89
INITIAL DATE: 09/19/89
ITEM NUMBER: K9X DATE LAST CHANGED: 03/20/07
SECTION: 2770 TIME LAST CHANGED: 13:32:34

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L KSC/USK-426
TEST CODE: EAFB STSALL

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2770 - TELEPHONE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 186439
ITEM NUMBER: K9X

ASSOCIATED DOC: 20026S 25022S
TRACKING NO. COMREV05 DB98 KING2001 L3411 R109-40
R2809
PRIORITY: MANDATORY
RATIONALE: REQUIRED COMMUNICATION WITH EAFB COORDINATION CONSOLE.

1. TYPE:
2. NUMBER;
A. CL:
B. LINE: 1
C. EXT:
3. LOCATION;
A. STATION: DFRC
B. BLDG.: 4800
C. ROOM: 3018
D. OTHER:
4. REMARKS: EAFB COORDINATOR'S CONS. WITH DSN CAPABILITY.
(HEADSET)

TECH CONTACT: KSC/PH-L/DEAN SCHAAF/321 861-9311
KSC/USK-426/MIKE KUTA/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/25/89
RESPONSE TRACKING: Z3453

[PRD] DATABASE RECORD: 187374 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/19/89
INITIAL DATE: 09/19/89
ITEM NUMBER: K10X DATE LAST CHANGED: 03/20/07
SECTION: 2770 TIME LAST CHANGED: 13:33:06

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L KSC/USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2770 - TELEPHONE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 187374
ITEM NUMBER: K10X

TRACKING NO. COMREV05 DB98 KING2001 L3411 R109-40
R2809
PRIORITY: MANDATORY
RATIONALE: ADMINISTRATIVE COMMUNICATION

1. TYPE:
2. NUMBER;
A. CL:
B. LINE: 1
C. EXT:
3. LOCATION;
A. STATION: DFRC
B. BLDG.: 4800
C. ROOM: 3018
D. OTHER:
4. REMARKS: ADMINISTRATIVE

TECH CONTACT: KSC/PH-L/DEAN SCHAAF/321 861-9311
KSC/USK-426/MIKE KUTA/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/25/89
RESPONSE TRACKING: Z3453

[PRD] DATABASE RECORD: 187750 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/19/89
INITIAL DATE: 09/19/89
ITEM NUMBER: K11X DATE LAST CHANGED: 03/20/07
SECTION: 2770 TIME LAST CHANGED: 13:33:43

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L KSC/USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2770 - TELEPHONE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 187750
ITEM NUMBER: K11X

TRACKING NO. COMREV05 DB98 KING2001 L3411 R109-40 R2809
PRIORITY: REQUIRED
RATIONALE: REQUIRED FOR DFRC LANDING SUPPORT

1. TYPE:
2. NUMBER;
A. CL:
B. LINE: 1
C. EXT:
3. LOCATION;
A. STATION: DFRC
B. BLDG.: 4800
C. ROOM: 3018
D. OTHER:
4. REMARKS: DFRC CONTROL ROOM CONFERENCE (HEADSET)

TECH CONTACT: KSC/PH-L/DEAN SCHAAF/321 861-9311
KSC/USK-426/MIKE KUTA/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/25/89
RESPONSE TRACKING: Z3453

[PRD] DATABASE RECORD: 204419 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/10/94
INITIAL DATE: 10/10/89
ITEM NUMBER: K12D DATE LAST CHANGED: 05/30/07
SECTION: 2770 TIME LAST CHANGED: 10:33:12

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L KSC/USK-426
TEST CODE: DODALS DODELS STSALL
TRACKING NO. COMREV05 DB98 KING2001 L3439 R2809 R6531
PRIORITY: REQUIRED
RATIONALE: ALTERNATE COMMUNICATION SOURCES AVAILABLE.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2770 - TELEPHONE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 204419
ITEM NUMBER: K12D

1. TYPE: OPS
2. NUMBER;
 A. CL: A
 B. LINE:
 C. EXT:
3. LOCATION;
 A. STATION: DOD ALS/ELS
 B. BLDG.:
 C. ROOM:
 D. OTHER:
4. REMARKS: PROVIDE APPROPRIATE SHORT-TERM PRIORITY ACCESS TO DEFENSE SWITCHED NETWORK (DSN) DURING URGENT CONTINGENCIES WHICH MAY DEVELOP DURING ORBITER TURNAROUND.

TECH CONTACT: KSC/PH-L/DENNY GAGEN/321 861-9301
KSC/USK-426/MIKE KUTA/321 861-3890

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 05/10/94
RESPONSE: WILCO FOR URGENT, REALTIME COMMUNICATION REQUIREMENTS. ROUTINE TELEPHONE COMMUNICATIONS SHOULD BE ROUTED THROUGH COMMERCIAL (NON-DOD) CHANNELS.

RESPONSE TRACKING: Z3479 Z6523

[PRD] DATABASE RECORD: 196520 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/18/89
INITIAL DATE: 09/18/89
ITEM NUMBER: K13D DATE LAST CHANGED: 05/30/07
SECTION: 2770 TIME LAST CHANGED: 10:33:10

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L KSC/USK-426
TEST CODE: DODALS DODELS STSALL
TRACKING NO. COMREV05 DB98 KING2001 L3404 R2809
PRIORITY: REQUIRED

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2770 - TELEPHONE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 196520
ITEM NUMBER: K13D

RATIONALE: ALTERNATE COMMUNICATION SOURCES AVAILABLE.

1. DESCRIPTION: LOCAL TELEPHONE SERVICE AMONG NASA ASSIGNED OPERATIONS, OFFICE SUPPORT AREAS AND LOCAL DOD AND CIVILIAN SUPPORT AGENCIES. FIFTY PERCENT OF THE CLASS A SERVICE IS REQUIRED STARTING ONE TO FOUR DAYS AFTER ORBITER LANDING. REMAINING SERVICE IS REQUIRED STARTING EIGHT TO SIXTEEN DAYS AFTER ORBITER LANDING. (SEE BELOW)

REF	CLASS	NO. LINES	EXT.	REMARKS
1	A	2	2	GROUND OPS MANAGER
2	A	2	2	SITE MANAGER
3	A	2	2	ORBITER OPERATIONS
4	A	2	2	ENGR
5	C	2	2	QAL/SAF
6	C	1	2	MATE AREA
7	C	1	2	SAFE/DESVC AREA
8	C	1	2	WAREHOUSE
9	C	1	2	SCAPE TRAILER
10	C	1	1	SAMPLE ANALYSIS
11	C	1	1	USA TECHS
12	A	2	2	TEST SPT COORD
13	C	2	2	PAYLOAD AREA
14	A	1	2	TRANSPORTATION
15	A	2	2	USA MANAGER

POC: KSC/PH-L/DENNY GAGEN/321 861-9301

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 10/10/89
RESPONSE:
LOCAL TELEPHONE SERVICE WILL BE PROVIDED FOR THE NASA GROUND TURNAROUND TEAM AT EACH DOD ALS/ELS. THE EXTENT & ADEQUACY OF SERVICE WILL DEPEND ON THE LOCAL TELEPHONE PLANT CAPABILITY TO SERVE THE AREAS SELECTED FOR TURNAROUND OPERATIONS.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2770 - TELEPHONE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 196520
ITEM NUMBER: K13D

RESPONSE TRACKING: Z3478

[PRD] DATABASE RECORD: 319757 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/19/89
INITIAL DATE: 09/19/89
ITEM NUMBER: K32X DATE LAST CHANGED: 03/20/07
SECTION: 2770 TIME LAST CHANGED: 13:34:15

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L KSC/USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. COMREV05 DB98 KING2001 L3411 R109-40
R2809
PRIORITY: REQUIRED
RATIONALE: ALTERNATE COMMUNICATION SOURCES AVAILABLE.

1. TYPE:
2. NUMBER;
A. CL: A
B. LINE: 2
C. EXT:
3. LOCATION;
A. STATION: DFRC
B. BLDG.: 4800
C. ROOM: CONTROL ROOM
D. OTHER:
4. REMARKS: GROUND OPERATIONS MANAGER
ONE LINE REQUIRED FOR EXCLUSIVE USE OF GOM FROM
LANDING MINUS ONE HOUR UNTIL ORBITER ARRIVES AT
THE MDD.

TECH CONTACT: KSC/PH-L/DEAN SCHAAF/321 861-9311
KSC/USK-426/MIKE KUTA/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2770 - TELEPHONE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 319757
ITEM NUMBER: K32X

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/25/89
RESPONSE TRACKING: Z3453

[PRD] DATABASE RECORD: 338752 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/03/90
INITIAL DATE: 07/03/90
ITEM NUMBER: E33K DATE LAST CHANGED: 12/07/05
SECTION: 2770 TIME LAST CHANGED: 08:22:32

REQUESTER: ER
SUBREQUESTER: LCC1 LCC3 M
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 L3817 R109-40 R2893

1. TYPE:
2. NUMBER;
A. CL: A
B. LINE: 1
C. EXT:
3. LOCATION;
A. STATION: KSC
B. BLDG.: LCC
C. ROOM: LCC1/3 RSR CONSOLE
D. OTHER:
4. REMARKS: ER RANGE SAFETY REPRESENTATIVE

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 KSC-SMI

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/12/90
RESPONSE TRACKING: Z2877 Z3826

[PRD] DATABASE RECORD: 339391 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/05/02
INITIAL DATE: 02/08/89
ITEM NUMBER: DY34K DATE LAST CHANGED: 05/31/07

CONTINUED

[PRD] DATABASE RECORD: 339391
ITEM NUMBER: DY34K

SECTION: 2770 TIME LAST CHANGED: 07:59:35

REQUESTER: HSFS NASA HQ
SUBREQUESTER: KSC/MK-SIO OMR1 STSR29
TEST CODE: KSC STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S
TRACKING NO. COMREV05 KING2001 L2925 R109-40 R26160
PRIORITY: MANDATORY
RATIONALE: REQUIRED TO COORDINATE DoD CONTINGENCY SUPPORT.

1. TYPE:
2. NUMBER;
A. CL: A
B. LINE: 1 (1 INSTRUMENT)
C. EXT:
3. LOCATION;
A. STATION: KSC
B. BLDG.: LCC
C. ROOM: OSR CONSOLE A11
D. OTHER:
4. REMARKS: DEP. AA SPACE OPS, CONSOLE A9

TECH CONTACT: (D) HSFS-O/JAY SUMMERS/321 494-8581
RANDY SEGERT/MK/321 867-8250

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KSC-SMI

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/05/02
RESPONSE TRACKING: Z2975

[PRD] DATABASE RECORD: 340004 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/08/89
INITIAL DATE: 02/08/89
ITEM NUMBER: HKTY35K DATE LAST CHANGED: 10/31/05
SECTION: 2770 TIME LAST CHANGED: 10:19:42

REQUESTER: MSFC KSC JSC
NASA HQ
SUBREQUESTER: KSC/MK-SIO KSC/PH-L OSR1 PH

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2770 - TELEPHONE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 340004
ITEM NUMBER: HKTY35K

TEST CODE: KSC STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S
TRACKING NO. COMREV05 KING2001 L2925 R109-40 R26160
PRIORITY: REQUIRED
RATIONALE: ALTERNATE COMMUNICATION SOURCES AVAILABLE.

1. TYPE:
2. NUMBER;
A. CL: A
B. LINE: 4 (6 INSTRUMENTS TO SHARE THE SAME 4 LINES)
C. EXT:
3. LOCATION;
A. STATION: KSC
B. BLDG.: LCC
C. ROOM: OSR1 CONSOLES A1/A2, A2/A3, A3/A4, A6/A7, A7/A8 & 8R.
D. OTHER:
4. REMARKS:
POINT OF CONTACT: KSC/SK/PAT LAMPTON/321 861-4004
KSC/MK-SIO/R. SEGERT/MK-SIO/321 867-8250

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-A KSC-SMI

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/08/89
RESPONSE TRACKING: Z2653 Z2975

[PRD] DATABASE RECORD: 363556 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/08/89
INITIAL DATE: 02/08/89
ITEM NUMBER: HKTY35.1K DATE LAST CHANGED: 06/05/07
SECTION: 2770 TIME LAST CHANGED: 13:53:15

REQUESTER: MSFC KSC JSC
NASA HQ
SUBREQUESTER: KSC/MK-SIO M OSR1 PH
STSR29
TEST CODE: KSC STSALL

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2770 - TELEPHONE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 363556
ITEM NUMBER: HKTY35.1K

ASSOCIATED DOC: 20007S 20014S 20017S
TRACKING NO. DB98 KING2001 L2925 R109-40 R26160
PRIORITY: REQUIRED
RATIONALE: ALTERNATE COMMUNICATION SOURCES AVAILABLE.

1. TYPE:
2. NUMBER;
A. CL: A
B. LINE: 4 (11 INSTRUMENTS TO SHARE THE SAME 4 LINES)
C. EXT:
3. LOCATION;
A. STATION: KSC
B. BLDG.: LCC
C. ROOM: OSR1
D. OTHER:
4. REMARKS: CONSOLES A9/A10, A10/A11, A11/A12, A12/A13, A13/A14, A14/A15, A15/A16, A16/A17, A17/A18, A18/A19 AND A1R.

POINT OF CONTACT: BILL CLEVER/SK/321 861-3205
R. SEGERT/MK-SIO/321 867-8250

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 KSC-SMI

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/08/89
RESPONSE TRACKING: Z2653 Z2975

[PRD] DATABASE RECORD: 342783 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/06/88
INITIAL DATE: 05/06/88
ITEM NUMBER: H39K DATE LAST CHANGED: 11/20/06
SECTION: 2770 TIME LAST CHANGED: 10:18:19

REQUESTER: MSFC
SUBREQUESTER: LCC2 M STSR28 STSR29
TEST CODE: KSC STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2770 - TELEPHONE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 342783
ITEM NUMBER: H39K

TRACKING NO. KING2001 R109-40 R26157 R26160 SCRUB06

1. TYPE:
2. NUMBER;
A. CL: A
B. LINE: 1
C. EXT:
3. LOCATION;
A. STATION: KSC
B. BLDG.: LCC
C. ROOM: LCC2 LPS CONS
D. OTHER: CONSOLE 231A1
4. REMARKS: ET STAFF ENG. CONS WITH FTS CAPABILITY IS REQUIRED.

POINT OF CONTACT: SK-SRB/PAT LAMPTON/321 867-9789

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 KSC-SMI

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/06/88
RESPONSE TRACKING: Z2653

[PRD] DATABASE RECORD: 343445 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/06/88
INITIAL DATE: 05/06/88
ITEM NUMBER: H40K DATE LAST CHANGED: 11/20/06
SECTION: 2770 TIME LAST CHANGED: 10:20:19

REQUESTER: MSFC
SUBREQUESTER: LCC2 M STSR28 STSR29
TEST CODE: KSC STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. KING2001 R109-40 R26157 R26160 SCRUB06

1. TYPE:
2. NUMBER;
A. CL: A

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2770 - TELEPHONE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 343445
ITEM NUMBER: H40K

B. LINE: 1
C. EXT:
3. LOCATION;
A. STATION: KSC
B. BLDG.: LCC
C. ROOM: LCC2 LPS CONS
D. OTHER: CONSOLE 231A2
4. REMARKS: (R) SRB/SRM ENGR MGMT CONSOLE WITH FTS CAPABILITY IS REQUIRED.

POINT OF CONTACT: SK-SRB/PAT LAMPTON/321 867-9789

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 KSC-SMI

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/06/88
RESPONSE TRACKING: Z2653

[PRD] DATABASE RECORD: 343881 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/06/88
INITIAL DATE: 05/06/88
ITEM NUMBER: H41K DATE LAST CHANGED: 11/20/06
SECTION: 2770 TIME LAST CHANGED: 10:21:12

REQUESTER: MSFC
SUBREQUESTER: LCC2 M STSR28 STSR29
TEST CODE: KSC STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. KING2001 R109-40 R26157 R26160 SCRUB06
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. TYPE:
2. NUMBER;
A. CL: A
B. LINE: 1
C. EXT:
3. LOCATION;

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2770 - TELEPHONE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 343881
ITEM NUMBER: H41K

A. STATION: KSC
B. BLDG.: LCC
C. ROOM: LCC2 LPS CONS
D. OTHER: CONSOLE 231A3
4. REMARKS: SSME ENGR MGMT CONSOLE WITH FTS
CAPABILITY IS REQUIRED.

POINT OF CONTACT: SK-SRB/PAT LAMPTON/321 867-9789

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 KSC-SMI

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/06/88
RESPONSE TRACKING: Z2653

[PRD] DATABASE RECORD: 345197 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/08/89
INITIAL DATE: 02/08/89
ITEM NUMBER: Y43K DATE LAST CHANGED: 06/05/07
SECTION: 2770 TIME LAST CHANGED: 13:53:53

REQUESTER: NASA HQ
SUBREQUESTER: KSC/MK-SIO M OMR1 OSR1
STSR29
TEST CODE: KSC STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S
TRACKING NO. KING2001 L2925 R109-40 R26160
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. TYPE:
2. NUMBER;
A. CL: A
B. LINE: 1 (1 INSTRUMENT)
C. EXT:
3. LOCATION;
A. STATION: KSC
B. BLDG.: LCC
C. ROOM: OMR1 CONSOLE A3/A4

CONTINUED

[PRD] DATABASE RECORD: 345197
ITEM NUMBER: Y43K

D. OTHER: FOR CONSOLE A4
4. REMARKS: IN ADDITION, A RING DOWN CIRCUIT PTP TO OSR
CONSOLE A4 IS REQUIRED. (REF YT64K DBR 362354)

TECHNICAL CONTACT: R. SEGERT/MK-SIO/321 867-8250

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 KSC-SMI

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/08/89
RESPONSE TRACKING: Z2653 Z2975

[PRD] DATABASE RECORD: 346223 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/08/89
INITIAL DATE: 02/08/89
ITEM NUMBER: HKTY44K DATE LAST CHANGED: 11/20/06
SECTION: 2770 TIME LAST CHANGED: 10:23:58

REQUESTER: MSFC KSC JSC
NASA HQ
SUBREQUESTER: KSC/MK OMR1 PH STSR29
TEST CODE: KSC STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S
TRACKING NO. DB98 KING2001 L2925 R109-40 R26160
SCRUB06
PRIORITY: REQUIRED
RATIONALE: ALTERNATE COMMUNICATION SOURCES AVAILABLE.

1. TYPE:
2. NUMBER;
A. CL: A
B. LINE: 4 (7 INSTRUMENTS TO SHARE THE SAME 4 LINES)
C. EXT:
3. LOCATION;
A. STATION: KSC
B. BLDG.: LCC
C. ROOM: OMR1 CONSOLES A1, A1/A2, A2/A3,

CONTINUED

[PRD] DATABASE RECORD: 346223
ITEM NUMBER: HKTY44K

A4/A5, A5/A6, A6/A7 & A7/A8.
D. OTHER:
4. REMARKS:
POC: SK-SRB/PAT LAMPTON/321 867-9789
R. SEGERT/MK/321 867-8250

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 KSC-SMI

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/08/89
RESPONSE TRACKING: Z2653 Z2975

[PRD] DATABASE RECORD: 355830 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/08/89
INITIAL DATE: 02/08/89
ITEM NUMBER: Y45K DATE LAST CHANGED: 06/05/07
SECTION: 2770 TIME LAST CHANGED: 13:54:36

REQUESTER: NASA HQ
SUBREQUESTER: KSC/MK-SIO M OMR1 STSR28
STSR29
TEST CODE: KSC STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S
TRACKING NO. KING2001 L2925 R109-40 R26157 R26160
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. TYPE:
2. NUMBER;
A. CL: A
B. LINE: 4 (4 INSTRUMENTS TO SHARE THE SAME 4 LINES)
C. EXT:
3. LOCATION;
A. STATION: KSC
B. BLDG.: LCC
C. ROOM: OMR1 CONS. A11/A12,A13/A14,A15/A16 & A17/A18
D. OTHER: POS. A6
4. REMARKS: TECH CONTACT: RANDY SEGERT/MK-SIO/321 867-8250

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2770 - TELEPHONE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 355830
ITEM NUMBER: Y45K

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 KSC-SMI

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/08/89
RESPONSE TRACKING: Z2653 Z2975

[PRD] DATABASE RECORD: 15174 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/08/89
INITIAL DATE: 02/08/89
ITEM NUMBER: Y45.1K DATE LAST CHANGED: 06/05/07
SECTION: 2770 TIME LAST CHANGED: 13:54:59

REQUESTER: NASA HQ
SUBREQUESTER: KSC/MK-SIO M OMR1
TEST CODE: KSC STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S
TRACKING NO. KING2001 L2925 R109-40 R26160
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. TYPE:
2. NUMBER;
A. CL: A
B. LINE: 1
C. EXT:
3. LOCATION;
A. STATION: KSC
B. BLDG.: LCC
C. ROOM: OMR1 NEAR CONSOLE A8 ON THE WALL
D. OTHER:
4. REMARKS: WITH 25' HANDSET CORD.

TECH CONTACT: RANDY SEGERT/MK-SIO/321 867-8250

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2770 - TELEPHONE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 15174
ITEM NUMBER: Y45.1K

SUBSUPPLIER: I-IT-D2 KSC-SMI

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/08/89
RESPONSE TRACKING: Z2653 Z2975

[PRD] DATABASE RECORD: 357915 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/08/89
INITIAL DATE: 02/08/89
ITEM NUMBER: Y47K DATE LAST CHANGED: 06/05/07
SECTION: 2770 TIME LAST CHANGED: 13:55:15

REQUESTER: NASA HQ
SUBREQUESTER: KSC/MK-SIO M NASA HQ OSR1
TEST CODE: KSC STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S
TRACKING NO. KING2001 L2925 R109-40 R26160

1. TYPE:
2. NUMBER;
A. CL: A
B. LINE: 3 (1 INSTRUMENT)
C. EXT:
3. LOCATION;
A. STATION: KSC
B. BLDG.: LCC
C. ROOM: OSR1 CONSOLE A5/A6
D. OTHER:
4. REMARKS: ONE PTP CIRCUIT TO THE LACB ROOM 5 IS REQUIRED.
THE 3 LINES ARE TO BE THE SAME AS 3 OF THE 4 LINES

PROVIDED IN LLS 2780, ITEM KTYH35, DBR 340004

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 KSC-SMI

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/08/89
RESPONSE TRACKING: Z2653 Z2975

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2770 - TELEPHONE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 237736 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/19/89
INITIAL DATE: 09/19/89
ITEM NUMBER: Y52E DATE LAST CHANGED: 06/05/07
SECTION: 2770 TIME LAST CHANGED: 13:55:31

REQUESTER: NASA HQ
SUBREQUESTER: PAWSSH XA-E1
TEST CODE: STSALL TVPLAN WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. KING2001 L3408 R109-40 R26173

1. TYPE:
2. NUMBER;
A. CL: A
B. LINE: 48
C. EXT:
3. LOCATION;
A. STATION: WSMR
B. BLDG.: PRESS CNTR. BLDG. 122 MAIN BASE
C. ROOM:
D. OTHER:
4. REMARKS: PROVIDE 52 TELEPHONES WITH OUTSIDE LINES FOR USE BY WORKING PRESS. PHONES SHOULD BE OPERATIONAL ONE WEEK PRIOR TO LAUNCH. PHONES SHOULD BE INHIBITED SO THAT DIRECT DISTANCE DIALING IS NOT POSSIBLE.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: WSMR
RESPONDER: BART KLEINFELDT/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/27/89
RESPONSE TRACKING: Z2757 Z3450

[PRD] DATABASE RECORD: 240518 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/21/92
INITIAL DATE: 10/10/89
ITEM NUMBER: K54E DATE LAST CHANGED: 12/18/06
SECTION: 2770 TIME LAST CHANGED: 11:30:39

REQUESTER: KSC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2770 - TELEPHONE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 240518
ITEM NUMBER: K54E

SUBREQUESTER: KSC/PH-L KSC/USK-426
TEST CODE: S0027.001 STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. COMREV05 DB98 KING2001 L3439 L5312
R109-40
PRIORITY: REQUIRED
RATIONALE: ALTERNATE COMMUNICATION SOURCES AVAILABLE.

1. TYPE: OPS
2. NUMBER;
A. CL: A
B. LINE: 4
C. EXT: 3
3. LOCATION;
A. STATION: WSMR (WSSH)
B. BLDG.: OPS CONTROL CENTER
C. ROOM:
D. OTHER:
4. REMARKS:
TECH CONTACT: KSC/PH-L/LOU GARCIA/321 861-6196
KSC/USK-426/MIKE KUTA/321 861-3980

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/04/93
RESPONSE TRACKING: Z2757 Z3479 Z5416

[PRD] DATABASE RECORD: 243413 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/10/89
INITIAL DATE: 10/10/89
ITEM NUMBER: K55E DATE LAST CHANGED: 03/08/06
SECTION: 2770 TIME LAST CHANGED: 07:14:43

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L KSC/USK-426

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2770 - TELEPHONE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 243413
ITEM NUMBER: K55E

TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. COMREV05 DB98 KING2001 L3439 R109-40
PRIORITY: REQUIRED
RATIONALE: ALTERNATE COMMUNICATION SOURCES AVAILABLE.

1. TYPE: OPS
2. NUMBER;
A. CL: C
B. LINE: 2
C. EXT: 2
3. LOCATION;
A. STATION: WSMR (WSSH)
B. BLDG.: OPS CONTROL CENTER
C. ROOM:
D. OTHER:
4. REMARKS: REQUIRED FOR EACH MISSION.

TECH CONTACT: KSC/PH-L/LOU GARCIA/321 861-6196
KSC/USK-426/MIKE KUTA/321 861-3980

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/10/89
RESPONSE TRACKING: Z2757 Z3479

[PRD] DATABASE RECORD: 244745 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/21/92
INITIAL DATE: 10/18/88
ITEM NUMBER: K56EZ DATE LAST CHANGED: 03/08/06
SECTION: 2770 TIME LAST CHANGED: 07:14:43

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L KSC/USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2770 - TELEPHONE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 244745
ITEM NUMBER: K56EZ

TRACKING NO. COMREV05 DB98 KING2001 L2742 L4619
L4714 L5312 R109-40
PRIORITY: REQUIRED
RATIONALE: TERTIARY LANDING SITE. BECOMES MANDATORY FOR LANDING AT WSSH.

1. TYPE: OPS
2. NUMBER;
A. CL: A
B. LINE: 15
C. EXT: 2
3. LOCATION;
A. STATION: WSMR (WSSH)
B. BLDG.: TEMPORARY SHELTERS
C. ROOM:
D. OTHER:
4. REMARKS: NOTE: THESE TELEPHONES ARE REQUIRED TO BE INSTALLED ONLY AFTER A DECISION HAS BEEN MADE TO LAND THE ORBITER AT WSSH. MINIMUM INSTALLATION TIME WOULD BE APPROXIMATELY ONE WEEK.

TECH CONTACT: KSC/PH-L/LOU GARCIA/321 861-6196
KSC/USK-426/MIKE KUTA/321 861-3890
WSTF/ROBERT MITCHELL/505 524-5774

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/04/93
RESPONSE TRACKING: Z2757 Z4715 Z5416

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/11/93
RESPONSE TRACKING: Z2757 Z3020 Z3044 Z3338 Z3607
Z4110 Z4715 Z5421

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2770 - TELEPHONE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 245848 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/27/90
INITIAL DATE: 03/27/90
ITEM NUMBER: K57E DATE LAST CHANGED: 03/08/06
SECTION: 2770 TIME LAST CHANGED: 07:14:43

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. COMREV05 DB98 KING2001 L3136 R109-40
PRIORITY: REQUIRED
RATIONALE: TERTIARY LANDING SITE. BECOMES MANDATORY FOR LANDING AT WSSH.

1. TYPE: OPS
2. NUMBER;
A. CL: C
B. LINE: 18
C. EXT: 2
3. LOCATION;
A. STATION: WSMR (WSSH)
B. BLDG.: TEMPORARY SHELTERS
C. ROOM:
D. OTHER:
4. REMARKS: NOTE: THESE TELEPHONES ARE REQUIRED TO BE INSTALLED ONLY AFTER A DECISION HAS BEEN MADE TO LAND THE ORBITER AT WSSH. MINIMUM INSTALLATION TIME WOULD BE APPROX. ONE WEEK.

TECH CONTACT: KSC/PH-L/LOU GARCIA/321 861-6196
KSC/USK-426/MIKE KUTA/321 861-3890

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/27/90
RESPONSE TRACKING: Z2757 Z3172

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2770 - TELEPHONE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 250822 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/21/92
INITIAL DATE: 10/18/88
ITEM NUMBER: K58EZ DATE LAST CHANGED: 03/08/06
SECTION: 2770 TIME LAST CHANGED: 07:14:43

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L KSC/USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. COMREV05 DB98 KING2001 L210-1 L4619
L4714 L5312 R109-40
PRIORITY: REQUIRED
RATIONALE: TERTIARY LANDING SITE. BECOMES MANDATORY FOR LANDING AT WSSH.

1. TYPE: OPS
2. NUMBER;
A. CL: C
B. LINE: 2
C. EXT: 3
3. LOCATION;
A. STATION: WSMR (WSSH)
B. BLDG.: OPS CONTROL CENTER
C. ROOM:
D. OTHER:
4. REMARKS: NOTE: THESE TELEPHONES ARE REQUIRED TO BE IN-STALLED ONLY AFTER A DECISION HAS BEEN MADE TO LAND THE ORBITER AT WSSH. MINIMUM INSTALLATION TIME WOULD BE APPROXIMATELY ONE WEEK.

TECH CONTACT: KSC/PH-L/LOU GARCIA/321 861-6196
KSC/USK-426/MIKE KUTA/321 861-3890
WSTF/ROBERT MITCHELL/505 524-5774

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/04/93
RESPONSE TRACKING: Z2757 Z4715 Z5416

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2770 - TELEPHONE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 250822
ITEM NUMBER: K58EZ

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/11/93
RESPONSE TRACKING: Z2757 Z3020 Z3044 Z3338 Z3607
Z4110 Z4715 Z5421

[PRD] DATABASE RECORD: 252900 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/27/90
INITIAL DATE: 03/27/90
ITEM NUMBER: K59Z DATE LAST CHANGED: 11/03/05
SECTION: 2770 TIME LAST CHANGED: 09:13:54

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L KSC/USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. COMREV05 DB98 KING2001 L3136 R109-40
PRIORITY: REQUIRED
RATIONALE: TERTIARY LANDING SITE. BECOMES MANDATORY FOR LANDING AT WSSH.

1. TYPE: OPS
2. NUMBER;
A. CL: A
B. LINE:
C. EXT:
3. LOCATION;
A. STATION: WSMR (WSSH)
B. BLDG.: OPS CONTROL CENTER AND SCHEDULING SHELTER
C. ROOM:
D. OTHER:
4. REMARKS: PROVIDE TELEPHONE SPEAKER CONFERENCE CAPABILITY AT BOTH LOCATIONS ON WSTF EXTENSION NUMBERS. REQUIRED ONLY AFTER DECISION TO LAND AT WSSH.

TECH CONTACT: KSC/PH-L/LOU GARCIA/321 861-6196
KSC/USK-426/MIKE KUTA/321 861-3890

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2770 - TELEPHONE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 252900
ITEM NUMBER: K59Z

WSTF/ROBERT MITCHELL/505 524-5774

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/27/90
RESPONSE TRACKING: Z26146 Z3172

[PRD] DATABASE RECORD: 255735 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/08/90
INITIAL DATE: 02/08/90
ITEM NUMBER: T61E DATE LAST CHANGED: 06/05/07
SECTION: 2770 TIME LAST CHANGED: 13:55:49

REQUESTER: JSC
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. KING2001 L001-11 L3625 R109-40

1. TYPE: OPS
2. NUMBER;
 A. CL: A
 B. LINE: 1
 C. EXT:
3. LOCATION;
 A. STATION: WSSH
 B. BLDG.: DISPENSARY TRAILER
 C. ROOM:
 D. OTHER:
4. REMARKS: REQUIRED FOR WSSH MISSION SUPPORT.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: WSMR
RESPONDER: BART KLEINFELDT/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/08/90

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2770 - TELEPHONE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 255735
ITEM NUMBER: T61E

RESPONSE TRACKING: Z2757 Z3623

[PRD] DATABASE RECORD: 258134 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/21/92
INITIAL DATE: 02/02/90
ITEM NUMBER: T62TZ DATE LAST CHANGED: 11/03/05
SECTION: 2770 TIME LAST CHANGED: 09:14:25

REQUESTER: JSC
SUBREQUESTER: ZTM
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. KING2001 L001-11 L210-1 L3625 L5322
R109-40

1. TYPE: OPS
2. NUMBER;
A. CL: A
B. LINE: 1
C. EXT:
3. LOCATION;
A. STATION: WSMR
B. BLDG.: BUILDING 300
C. ROOM:
D. OTHER:
4. REMARKS: WSTF WILL PROVIDE TRUNK LINES BETWEEN WSTF AND
WSMR AS SCHEDULED TO SUPPORT TELEPHONES.

WSTF CONTACT: ROBERT MITCHELL/505 524-5774
FAX 505 524-5798

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/21/92
RESPONSE TRACKING: Z3623 Z5317

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2770 - TELEPHONE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 258134
ITEM NUMBER: T62TZ

RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/06/93
RESPONSE TRACKING: Z26146 Z26203 Z3020 Z3550 Z3607
Z3623 Z3858 Z39100 Z4919 Z5005
Z5015 Z5045 Z5109 Z5317 Z5421
Z5537 Z5562

[PRD] DATABASE RECORD: 259555 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/21/92
INITIAL DATE: 02/02/90
ITEM NUMBER: T63EZ DATE LAST CHANGED: 03/08/06
SECTION: 2770 TIME LAST CHANGED: 07:14:44

REQUESTER: JSC
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. COMREV05 KING2001 L001-11 L210-1 L2647
L3625 L5312 R109-40

1. TYPE: OPS
2. NUMBER;
A. CL: A
B. LINE: 1
C. EXT: 1
3. LOCATION;
A. STATION: WSSH
B. BLDG.: DISPENSARY TRAILER
C. ROOM:
D. OTHER:
4. REMARKS: WSTF WILL PROVIDE TRUNK LINES BETWEEN WSTF AND
WSMR AS SCHEDULED.

POC: WSTF/ROBERT MITCHELL/505 524-5774

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/04/93

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2770 - TELEPHONE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 259555
ITEM NUMBER: T63EZ

RESPONSE TRACKING: Z2718 Z3623 Z5416

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/11/93
RESPONSE TRACKING: Z26146 Z26203 Z3020 Z3623 Z5421

[PRD] DATABASE RECORD: 362354 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/08/89
INITIAL DATE: 02/08/89
ITEM NUMBER: TY64K DATE LAST CHANGED: 06/05/07
SECTION: 2770 TIME LAST CHANGED: 13:56:05

REQUESTER: JSC NASA HQ
SUBREQUESTER: KSC/MK-SIO M OMR1 OSR1
TEST CODE: KSC STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S
TRACKING NO. KING2001 L2925 R109-40 R26160
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. TYPE:
2. NUMBER;
A. CL: A
B. LINE: 2 (1 INSTRUMENT)
C. EXT:
3. LOCATION;
A. STATION: KSC
B. BLDG.: LCC
C. ROOM: OSR1 CONSOLE A4/A5
D. OTHER: FOR CONSOLE A4
4. REMARKS: A RING DOWN CIRCUIT PTP TO OMR CONSOLE A4 IS REQUIRED (REF LLS2780, ITEM Y43K, DBR 345197). ALSO A HOUSTON FX IS REQUIRED.

TECH CONTACT: RANDY SEGERT/MK-SIO/321 867-8250
JON COWART/MV7/321 861-3040

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2770 - TELEPHONE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 362354
ITEM NUMBER: TY64K

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 KSC-SMI

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/08/89
RESPONSE TRACKING: Z2653 Z2975

[PRD] DATABASE RECORD: 364417 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/18/89
INITIAL DATE: 04/18/89
ITEM NUMBER: T66K DATE LAST CHANGED: 06/05/07
SECTION: 2770 TIME LAST CHANGED: 13:56:29

REQUESTER: JSC
SUBREQUESTER: FR2 M
TEST CODE: KSC STSALL
TRACKING NO. KING2001 R109-40

1. TYPE:
2. NUMBER;
A. CL: A
B. LINE: 1
C. EXT:
3. LOCATION;
A. STATION: KSC
B. BLDG.: LCC
C. ROOM: LCC2
D. OTHER:
4. REMARKS: JSC/BNA LSS MGMT AVIONICS-CONSOLE 0248A4 (KSC 867 PBX W/FTS CAP.)

TECH CONTACT: JON COWART/MV7/321 861-3040

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 KSC-SMI

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/18/89

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2770 - TELEPHONE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 364940 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/18/89
INITIAL DATE: 04/18/89
ITEM NUMBER: T67K DATE LAST CHANGED: 06/05/07
SECTION: 2770 TIME LAST CHANGED: 13:56:52

REQUESTER: JSC
SUBREQUESTER: FR2 M
TEST CODE: STSALL
TRACKING NO. KING2001 R109-40

1. TYPE:
2. NUMBER;
A. CL: A
B. LINE: 1
C. EXT:
3. LOCATION;
A. STATION: KSC
B. BLDG.: LCC
C. ROOM: LCC2
D. OTHER:
4. REMARKS: HOT SPARE, CONSOLE 0239A2 (KSC
867 PBX W/FTS CAP.)

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 KSC-SMI

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/18/89

[PRD] DATABASE RECORD: 172251 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/08/89
INITIAL DATE: 02/08/89
ITEM NUMBER: HKTY68K DATE LAST CHANGED: 11/20/06
SECTION: 2770 TIME LAST CHANGED: 10:26:00

REQUESTER: MSFC KSC JSC
NASA HQ
SUBREQUESTER: KSC/MK-SIO M OSR1 PH
TEST CODE: KSC STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S
TRACKING NO. DB98 KING2001 L2925 R109-40 R26160
SCRUB06

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2770 - TELEPHONE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 172251
ITEM NUMBER: HKTY68K

PRIORITY: REQUIRED
RATIONALE: ALTERNATE COMMUNICATION SOURCES AVAILABLE.

1. TYPE:
2. NUMBER;
 A. CL: A
 B. LINE: 1
 C. EXT:
3. LOCATION;
 A. STATION: KSC
 B. BLDG.: LCC
 C. ROOM: OSR1 NW CORNER
 D. OTHER:
4. REMARKS: TO BE USED FOR FAX MACHINE (321 867-4646)

POC: SK-SRB/PAT LAMPTON/321 867-9789
TECH CONTACT: R. SEGERT/MK/321 867-8250

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 KSC-SMI

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/08/89
RESPONSE TRACKING: Z2653 Z2975

[PRD] DATABASE RECORD: 202969 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/21/92
INITIAL DATE: 10/18/88
ITEM NUMBER: T74EZ DATE LAST CHANGED: 03/08/06
SECTION: 2770 TIME LAST CHANGED: 07:14:40

REQUESTER: JSC
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. L2742 L5312 R109-40

1. TYPE: ADM
2. NUMBER;
 A. CL: A

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2770 - TELEPHONE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 202969
ITEM NUMBER: T74EZ

B. LINE: 1
C. EXT:
3. LOCATION;
A. STATION: WSMR
B. BLDG.: WSSH OCC (WHITE SANDS SPACE HARBOR
OPERATIONS CONTROL CENTER).
C. ROOM:
D. OTHER:
4. REMARKS: DEDICATED TO OPS MANAGER FROM LANDING -2 HOURS
THRU START OF ORBITER TOWING OPERATIONS.

POC: WSTF/ROBERT MITCHELL/505 524-5774

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/04/93
RESPONSE TRACKING: Z2757 Z5416

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 254-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/11/93
RESPONSE TRACKING: Z2757 Z3020 Z5421

[PRD] DATABASE RECORD: 287598 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/21/92
INITIAL DATE: 10/18/88
ITEM NUMBER: T75EZ DATE LAST CHANGED: 03/08/06
SECTION: 2770 TIME LAST CHANGED: 07:14:45

REQUESTER: JSC
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. COMREV05 KING2001 L2742 L5312 R109-40

1. TYPE: ADM

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2770 - TELEPHONE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 287598
ITEM NUMBER: T75EZ

2. NUMBER;
A. CL: A
B. LINE: 1
C. EXT:
3. LOCATION;
A. STATION: WSSH
B. BLDG.: WSSH OCC (WHITE SANDS SPACE HARBOR
OPERATIONS CONTROL CENTER).
C. ROOM:
D. OTHER:
4. REMARKS: DEDICATED TO OPS MANAGER'S REPRESENTATIVE FROM
LANDING -2 HOURS THRU ROLLSTOP.

POC: WSTF/ROBERT MITCHELL/505 524-5774

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/04/93
RESPONSE TRACKING: Z2757 Z5416

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/11/93
RESPONSE TRACKING: Z2914 Z3020 Z5421

[PRD] DATABASE RECORD: 176322 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/02/90
INITIAL DATE: 02/02/90
ITEM NUMBER: T77X DATE LAST CHANGED: 03/20/07
SECTION: 2770 TIME LAST CHANGED: 13:35:10

REQUESTER: JSC
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. KING2001 L001-11 L3625 R109-40 R2809

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2770 - TELEPHONE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 176322
ITEM NUMBER: T77X

1. TYPE: ADM
2. NUMBER;
 A. CL: A
 B. LINE: 1
 C. EXT:
3. LOCATION;
 A. STATION: DFRC
 B. BLDG.: 4800
 C. ROOM: CONTROL ROOM
 D. OTHER:
4. REMARKS: DFRC EMSS COORDINATOR W/ CAPABILITY.

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/20/90
RESPONSE TRACKING: Z3140

[PRD] DATABASE RECORD: 196200 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/18/88
INITIAL DATE: 07/18/88
ITEM NUMBER: K83E DATE LAST CHANGED: 06/05/07
SECTION: 2770 TIME LAST CHANGED: 13:57:17

REQUESTER: KSC
SUBREQUESTER: TA-E
TEST CODE: CCAFS STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 MK98 R109-40 R26209
PRIORITY: REQUIRED
RATIONALE: ALTERNATE COMMUNICATION SOURCE AVAILABLE.

1. TYPE:
2. NUMBER;
 A. CL: A
 B. LINE: 1

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2770 - TELEPHONE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 196200
ITEM NUMBER: K83E

C. EXT:
3. LOCATION;
A. STATION: CCAFS
B. BLDG.: ROCC
C. ROOM: CENT. BAY
D. OTHER: NASA MANAGEMENT CONSOLE
4. REMARKS: WITH FTS (L-5 HOURS)

TECH CONTACT: BILL HAASE/TA-F-A/321 494-6272

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/08/88
RESPONSE TRACKING: Z26185

[PRD] DATABASE RECORD: 198442 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/18/88
INITIAL DATE: 07/18/88
ITEM NUMBER: K85E DATE LAST CHANGED: 03/08/06
SECTION: 2770 TIME LAST CHANGED: 07:14:40

REQUESTER: KSC
SUBREQUESTER: TA-E
TEST CODE: CCAFS STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 KING2001 MK98 R109-40 R26209
PRIORITY: REQUIRED
RATIONALE: ALTERNATE COMMUNICATION SOURCE AVAILABLE.

1. TYPE:
2. NUMBER;
A. CL: A
B. LINE: 1
C. EXT:
3. LOCATION;
A. STATION: CCAFS
B. BLDG.: ROCC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2770 - TELEPHONE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 198442
ITEM NUMBER: K85E

C. ROOM: LRCC ROCC
D. OTHER: NASA PROJECT CONSOLE
4. REMARKS: WITH FTS (L-5 HOURS)

TECH CONTACT: BILL HAASE/TA-E/321 494-9163

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/08/88
RESPONSE TRACKING: Z26185

[PRD] DATABASE RECORD: 281990 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/28/89
INITIAL DATE: 11/28/89
ITEM NUMBER: T89K DATE LAST CHANGED: 06/05/07
SECTION: 2770 TIME LAST CHANGED: 13:57:34

REQUESTER: JSC
TEST CODE: KSC SLF STSALL
TRACKING NO. KING2001 L3202 R109-40

1. TYPE:
2. NUMBER;
A. CL: A
B. LINE: 1
C. EXT:
3. LOCATION;
A. STATION: KSC
B. BLDG.: LACB
C. ROOM: RM. 5
D. OTHER:
4. REMARKS: FLIGHT CREW REPRESENTATIVE POSITION (WITH FTS)

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 KSC-SMI

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/28/89

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2770 - TELEPHONE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 281990
ITEM NUMBER: T89K

RESPONSE TRACKING: Z3205

[PRD] DATABASE RECORD: 245760 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/30/89
INITIAL DATE: 06/30/89
ITEM NUMBER: T90K DATE LAST CHANGED: 06/05/07
SECTION: 2770 TIME LAST CHANGED: 13:57:49

REQUESTER: JSC
TEST CODE: JSC KSC STSALL
TRACKING NO. KING2001 R109-40 R2886
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: PERMANENT AND SECURE TWO WAY TELEPHONE LINKS BETWEEN THE KENNEDY SPACE CENTER FLIGHT DATA FILE OPERATIONS ROOM, THIRD FLOOR, OPERATIONS AND CHECKOUT BUILDING AND:

   A. THE JOHNSON SPACE CENTER CLASSIFIED DATA PREPARATION AREA (CDPA), THIRD FLOOR, BUILDING 4.
   B. THE SPACE DIVISION IN LOS ANGELES, CA.,(BUILDING AND ROOM TO BE DETERMINED).
   C. THE SATELLITE CONTROL FACILITY IN SUNNYVALE, CA., (BUILDING AND ROOM TO BE DETERMINED).
   D. THE VANDERBERG AIR FORCE BASE FLIGHT DATA FILE ROOM (BUILDING AND ROOM TO BE DETERMINED).
   E. THE SECURE CREW ACTIVITY PLANNING SYSTEM MULTIPURPOSE SUPPORT ROOM (CAPS MPSR) IN THE MISSION CONTROL CENTER, JSC, THIRD FLOOR, BUILDING 30.
      DIAL UP CAPABILITY IS SATISFACTORY.

      REF. LLS SECTION 5600, ITEM T1K(8G), DBR 198383.

   TECH CONTACT: GARY HOGELAND/SGS-323/321-861-5294

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: SGS-032 SGS-347 TA
Z2869

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/06/89

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2770 - TELEPHONE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 245760
ITEM NUMBER: T90K

RESPONSE TRACKING: Z2869

[PRD] DATABASE RECORD: 244952 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/30/89
INITIAL DATE: 06/30/89
ITEM NUMBER: T91K DATE LAST CHANGED: 06/05/07
SECTION: 2770 TIME LAST CHANGED: 13:58:03

REQUESTER: JSC
TEST CODE: KSC STSALL
TRACKING NO. KING2001 L906-8 R109-40 R2886

1. DESCRIPTION: PROVIDE TWO INDEPENDENT ROTATING PHONE LINES ON TWO (2) SEPERATE INSTRUMENTS WITH CAPABILITY IN ASTRO QUARTERS.

REF: LLS SECT 5600 ITEM T1K(8H) DBR 198383

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 KSC-SMI

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/10/89
RESPONSE TRACKING: Z2869

[PRD] DATABASE RECORD: 212669 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/15/89
INITIAL DATE: 09/15/89
ITEM NUMBER: K92E DATE LAST CHANGED: 08/09/06
SECTION: 2770 TIME LAST CHANGED: 09:21:37

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L KSC/USK-426
TEST CODE: 26002C EAFB

ASSOCIATED DOC: 20026S 26002
TRACKING NO. COMREV05 DB98 KING2001 L3404 R109-40
PRIORITY: MANDATORY
RATIONALE: MANDATORY COMMUNICATION TO SUPPORT LANDING OPERATIONS AT EAFB.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2770 - TELEPHONE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 212669
ITEM NUMBER: K92E

1. DESCRIPTION: TELEPHONE IS REQUIRED
AT THE MSBLS OPERATIONS AND CONTROL (O&C) TRAILERS TO BE
LOCATED BY RUNWAYS 04/22. (EAFB)

TECH CONTACT: KSC/PH-L/DEAN SCHAAF/321 861-9311
KSC/USK-426/MIKE KUTA/321 861-3890

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/13/89
RESPONSE TRACKING: Z3484

[PRD] DATABASE RECORD: 15876 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/18/88
INITIAL DATE: 07/18/88
ITEM NUMBER: K104E DATE LAST CHANGED: 03/08/06
SECTION: 2770 TIME LAST CHANGED: 07:14:34

REQUESTER: KSC
SUBREQUESTER: TA-E
TEST CODE: CCAFS STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. COMREV05 KING2001 MK98 R109-40 R26209
PRIORITY: REQUIRED
RATIONALE: ALTERNATE COMMUNICATION SOURCE AVAILABLE.

1. TYPE:
2. NUMBER;
A. CL: A
B. LINE: 1
C. EXT:
3. LOCATION;
A. STATION: CCAFS
B. BLDG.: ROCC
C. ROOM: CONTROL ROOM
D. OTHER: NASA R/S REP CONSOLE
4. REMARKS: WITH FTS (L-5 HOURS)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2770 - TELEPHONE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 15876
ITEM NUMBER: K104E

TECH CONTACT: BILL HAASE/TA-E/321 494-9163

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/08/88
RESPONSE TRACKING: Z26185

[PRD] DATABASE RECORD: 18573 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/03/89
INITIAL DATE: 05/03/89
ITEM NUMBER: Y105.1K DATE LAST CHANGED: 06/05/07
SECTION: 2770 TIME LAST CHANGED: 13:58:22

REQUESTER: NASA HQ
SUBREQUESTER: KSC/MK-SIO M OMR1
TEST CODE: KSC STSALL
TRACKING NO. KING2001 R109-40 R2805

1. DESCRIPTION: OMR1 POSITIONS A1 THRU A16 EACH REQUIRE
AN ADMINISTRATIVE TELEPHONE CONNECTED
TO KSC 867/861 PBX WITH CAPABILITY.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 KSC-SMI

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/03/89
RESPONSE TRACKING: Z2804

[PRD] DATABASE RECORD: 22218 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/23/90
INITIAL DATE: 05/23/90
ITEM NUMBER: Z106E DATE LAST CHANGED: 03/08/06
SECTION: 2770 TIME LAST CHANGED: 07:14:38

REQUESTER: WSTF

CONTINUED

[PRD] DATABASE RECORD: 22218
ITEM NUMBER: Z106E

TEST CODE: WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. COMREV05 KING2001 L3547 R109-40

1. DESCRIPTION: SERVICE AT WSSH

PROVIDE A NEW WSMR CLASS OF TELEPHONE SERVICE
ALLOWING ALL WSSH EXTENSIONS TO ACCESS THE
AVAILABLE TRUNKS SIMILAR TO THE ACCESS
AVAILABLE FOR DSN.

TECH CONTACT: WSTF/WSSH/ROBERT MITCHELL/ 505 524-5774

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/08/90
RESPONSE TRACKING: Z3564

[PRD] DATABASE RECORD: 522264 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/26/93
INITIAL DATE: 01/26/93
ITEM NUMBER: K107D DATE LAST CHANGED: 05/30/07
SECTION: 2770 TIME LAST CHANGED: 10:33:23

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L KSC/USK-426
TEST CODE: MORON STSALL TAL ZARAGOZA

ASSOCIATED DOC: 20029S 20057S
TRACKING NO. COMREV05 DB98 KING2001 L5507 R109-40
PRIORITY: REQUIRED
RATIONALE: REQUIRED FOR LANDING SUPPORT. BACKUP HANDHELD RADIO.

1. DESCRIPTION: TELEPHONE LINE FOR HANDAR - ZARAGOZA

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2770 - TELEPHONE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 522264
ITEM NUMBER: K107D

PROVIDE INSTALLATION/MAINTENANCE OF A COMMERCIAL/CLASS A TELEPHONE LINE FOR ACCESS TO THE AUTOMATED WEATHER STATION (HANDAR) AT ZARAGOZA & TAL SITE.

COORDINATION: KSC/PH-L/GLEN LOCKWOOD/321 861-9310
KSC/USK-426/MIKE KUTA/321 861-3890

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/26/93
RESPONSE TRACKING: Z5506

[PRD] DATABASE RECORD: 580763 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/09/05
INITIAL DATE: 03/09/05
ITEM NUMBER: KTY108G DATE LAST CHANGED: 01/11/07
SECTION: 2770 TIME LAST CHANGED: 12:33:17

REQUESTER: KSC JSC NASA HQ
SUBREQUESTER: JSC/MT KSC/NE-M7
TEST CODE: LAUNCH PREFLT STSALL TVPLAN

ASSOCIATED DOC: 20007S
TRACKING NO. L06-11-1 R0504-7

1. DESCRIPTION: VOICE REQUIREMENT FOR ET TV VIDEO CAMERA SUPPORT

RESPONSIBLE AGENCY: GSFC

WALLOPS IS RESPONSIBLE FOR PROVIDING ACCESS TO A BLACK TELEPHONE WITH LONG DISTANCE CAPABILITY FOR THE PORTABLE EARTH STATION VAN OPERATOR.

TECH CONTACT: KSC/PH-H3/TOM FORD/321 861-3635
JSC/MS2/CHRISTINE BOYKIN/281 483-1251
JSC/M03-USA/RAY BANKS/281 483-8233

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2770 - TELEPHONE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 580763
ITEM NUMBER: KTY108G

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/09/05

[PRD] DATABASE RECORD: 582118 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/09/05
INITIAL DATE: 03/09/05
ITEM NUMBER: KTY109G DATE LAST CHANGED: 11/16/06
SECTION: 2770 TIME LAST CHANGED: 07:13:28

REQUESTER:	KSC	JSC		NASA HQ
SUBREQUESTER:	JSC/MT	KSC/PH-H2		
TEST CODE:	LAUNCH	PREFLT	STSALL	TVPLAN

ASSOCIATED DOC: 20007S
TRACKING NO. L06-11-1 R0504-7

1. DESCRIPTION: VOICE REQUIREMENTS FOR ET TV VIDEO CAMERA SUPPORT

RESPONSIBLE AGENCY: GSFC

WALLOPS WILL EXTEND THE TV CONFERENCE T/L MODE AND THE MISSION AUDIO CONFERENCE IN THE MONITOR MODE TO THE PORTABLE EARTH STATION LOCATED AT THEIR LOCATION.

POC: JSC/MS2/CHRISTINE BOYKIN/281 483-1251
JSC/M03-USA/RAY BANKS/281 483-8233

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/09/05

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2770 - TELEPHONE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 591797 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/22/07
INITIAL DATE: 05/22/07
ITEM NUMBER: K110EK DATE LAST CHANGED: 05/22/07
SECTION: 2770 TIME LAST CHANGED: 08:58:01

REQUESTER: KSC
SUBREQUESTER: I-TA-G PH-I
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. SCRUB06

1. TYPE: LCC 1P10/CCAFS FIRE HOUSE - FIRE COORD.
2. NUMBER; 032-0600
A. CL:
B. LINE:
C. EXT:
3. LOCATION; CCAFS FIRE HOUSE BLDG 1608 RM 202
A. STATION:
B. BLDG.:
C. ROOM:
D. OTHER:
4. REMARKS: KSC/CCAFS FIRE COORD

TECH CONTACT: KSC/LAURIE LOCKRIDGE/SMI-KSC/
321 867-5525

POC: ER/MIKE GAWEL/321 853-8118
KSC/DEBBIE AWTONOMOW/321 861-9358

NOTE: KSC CKT# 2TCB60460

MOVED FROM SECTION 2752- DURING THE PRD SCRUB 2006.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/22/07

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 KICS-105 KICS-306

CONTINUED

[PRD] DATABASE RECORD: 591797
ITEM NUMBER: K110EK

SMI-KSC

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/22/07

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2780 - OTHER COMMUNICATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD:	203921	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	LLS	APPROVAL DATE:	04/09/91
		INITIAL DATE:	05/17/88
ITEM NUMBER:	T4GHKTX	DATE LAST CHANGED:	03/20/07
SECTION:	2780	TIME LAST CHANGED:	13:36:16

REQUESTER: JSC
TEST CODE: EAFB JSC KSC ORBIT
RTLS STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S 20026S
20028S
TRACKING NO. KING2001 L103-3 L2604 L3729 R109-49
R26136
PRIORITY: REQUIRED
RATIONALE: PAO SUPPORT

1. DESCRIPTION: TV VIT SIGNAL CONSOLIDATION

IN ORDER TO STANDARDIZE NASA CENTER VIDEO OUTPUT ON COMMON CARRIERS, IT IS NECESSARY TO OBSERVE THE FOLLOWING CRITERIA IN SUPPORT OF PAO TELEVISION RELEASES:

1. KSC, MSFC, DFRC AND JSC AS ORIGINS FOR PAO RELEASES VIA TELEVISION SHALL PROVIDE THE FOLLOWING VERTICAL INTERVAL TEST (VIT) SIGNALS ON THE VIDEO OUTPUT TO THE COMMON CARRIER:

   A. LINE 17, FIELD 1 - NTC NO. 7 COMPOSITE
   B. LINE 17, FIELD 2 - NTC NO. 7 MULTIBURST
   C. LINE 19, FIELD 1 AND 2 - VERTICAL INTERVAL REFERENCE (VIRS)

2. IN COMPLIANCE WITH THE FCC AND WITH THE BROADCAST NETWORK STANDARDS, HORIZONTAL BLANKING SHALL NOT EXCEED 10.8 U/SECS, AND VERTICAL BLANKING SHALL NOT EXCEED 20 LINES.

POINT OF CONTACT: KSC/IT-D2-C/CHUCK BROWN/321-867-2090

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/09/91
RESPONSE TRACKING: Z2647 Z3731

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2780 - OTHER COMMUNICATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 203921
ITEM NUMBER: T4GHKTX

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/31/91
RESPONSE TRACKING: Z4042

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/09/91
RESPONSE TRACKING: Z2652 Z3731

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/09/91
RESPONSE TRACKING: Z2651 Z3731

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/09/91

[PRD] DATABASE RECORD: 209399 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/05/02
INITIAL DATE: 06/13/89
ITEM NUMBER: G6K DATE LAST CHANGED: 11/11/05
SECTION: 2780 TIME LAST CHANGED: 12:39:17

REQUESTER: GSFC
SUBREQUESTER: GSFC
TEST CODE: GSFC STSALL TVPLAN
TRACKING NO. COMREV05 KING2001 R107-2 R109-49 R2850

1. DESCRIPTION: MIL - GSFC SERVICES

NISN WILL PROVIDE A CONDITIONED ANALOG
CIRCUIT BETWEEN MIL AND GSFC FOR

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2780 - OTHER COMMUNICATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 209399
ITEM NUMBER: G6K

TRANSMISSION OF KSC COUNTDOWN TIMING.

POC: GSFC/MIKE ALLEN/410 312-1427

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/05/02

[PRD] DATABASE RECORD: 296277 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/05/02
INITIAL DATE: 07/31/89
ITEM NUMBER: GT7GHKTX DATE LAST CHANGED: 03/20/07
SECTION: 2780 TIME LAST CHANGED: 13:36:54

REQUESTER: GSFC JSC
SUBREQUESTER: GSFC/700
TEST CODE: EAFB JSC KSC S51F11
S61E16 STSALL TVPLAN

ASSOCIATED DOC: 20026S
TRACKING NO. COMREV05 KING2001 L102-4 L2841 L3922
L6203 L801-1 L801-1A R107-2 R109-49
R26136 R26176 R8903 R9001
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: TELEVISION VERIFICATION AND VALIDATION

JSC AND GSFC REQUIRES PREFLIGHT VALIDATION TEST SUPPORT, AS FOLLOWS, TO VERIFY END-TO-END CONFIGURATIONS AND CAPABILITIES FOR ALL MISSION PHASES DURING WHICH TELEVISION SUPPORT IS PLANNED; I.E., LAUNCH, EARTH ORBITAL AND LANDING.

A. SITE VERIFICATION AND VALIDATION TEST SUPPORT FROM MILA.
B. CENTER-TO-CENTER VALIDATION TEST SUPPORT FROM KSC, DFRC, JSC, MSFC AND GSFC.
C. SN 1201 VERIFICATION AND VALIDATION TEST SUPPORT FROM WSC, HOUSTON TV AND GSFC.

CONTINUED

[PRD] DATABASE RECORD: 296277
ITEM NUMBER: GT7GHKTX

D. MUX/DEMUX VERIFICATION TEST SUPPORT WITH KSC.

NASA HAS LEASED A TRANSPONDER ON A DOMESTIC COMMNICATIONS SATELLITE FOR TRANSMITTING SHUTTLE TV TO THE FOLLOWING LOCATIONS; THE OPERATIONS SUPPORT EXPECTATION WILL BE DEMONSTRATED DURING THIS VALIDATION TESTING:

LOCATION	* TRANSMIT (UPLINK)	** RECEIVE (DOWNLINK)
MSFC	X	X
JSC	X	X
DFRC	X	X
KSC	X	X
GSFC	X	X
GN MILA	X (THRU KSC FACILITY)	
WSC	X	X

* ALL UPLINK TRANSMISSIONS ARE NON-SIMULTANEOUS THROUGH THIS ONE TRANSPONDER.
** DOWNLINKS CAN BE SIMULTANEOUS TO MULTI-RECEIVE LOCATIONS.

HOUSTON TV CONTROL HAS THE RESPONSIBILITY OF COORDINATING AND ASSEMBLING ALL TELEVISION SUPPORT REQUIREMENTS FOR SHUTTLE MISSIONS, TELEVISION SUPPORT FOR ALL STATIONS SUPPORTING MISSION REQUIREMENTS. FINAL SUPPORT SCHEDULE IS SUBMITTED TO GSFC NNSG (NISN NETWORK SCHEDULING GROUP) BY HOUSTON TV FOR NISN SUPPORT.

TECH CONTACT: JSC/ROLAND NITTA/281 483-5629

POINT OF CONTACT: KSC/IT-D2-C/CHUCK BROWN/321-867-2090

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/05/02
RESPONSE TRACKING: Z107-3 Z26155 Z2647 Z28115 Z3976
Z6203 Z9003

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2780 - OTHER COMMUNICATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 296277
ITEM NUMBER: GT7GHKTX

RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/05/02
RESPONSE TRACKING: Z107-2 Z26189 Z28115 Z39101 Z6203
Z8906 Z9001

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/05/02
RESPONSE TRACKING: Z107-3 Z26150 Z2652 Z28115 Z3976
Z6203 Z8906 Z9001

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/06/02
RESPONSE TRACKING: Z107-4

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/28/03
RESPONSE TRACKING: Z114-2 Z26156 Z2651 Z28115 Z3735
Z39101 Z6203 Z8907 Z9001

[PRD] DATABASE RECORD: 221795 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/14/99
INITIAL DATE: 01/29/90
ITEM NUMBER: D15E DATE LAST CHANGED: 12/01/06
SECTION: 2780 TIME LAST CHANGED: 09:39:09

REQUESTER: HSFS
TEST CODE: CCAFS EAFB STSALL TVPLAN
WSSH

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
TRACKING NO. COMREV05 KING2001 L3615 L4503 R109-49
R2809 R9305

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2780 - OTHER COMMUNICATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 221795
ITEM NUMBER: D15E

1. DESCRIPTION: JSC, KSC NEWS FACILITY PAO, KSC PAD VIDEO MONITOR

EXTENDED FROM CCAFS XY TO PAFB DOD SOC TWO OF THE FOLLOWING TV, SIGNALS:

(1) JSC VIDEO DISPLAYS;
(2) KSC PAO SELECT;
(3) PAD OTV

OUTPUTS TO THESE LINES ARE TO BE SWITCHABLE UPON REQUEST OF THE DDMS PERSONNEL IN THE DOD SOC.

POINT OF CONTACT: DDMS-O/JAY SUMMERS/321-494-8581

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/14/99
RESPONSE TRACKING: Z3612 Z4518 Z9305

[PRD] DATABASE RECORD: 224575 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/27/95
INITIAL DATE: 11/26/91
ITEM NUMBER: K17E DATE LAST CHANGED: 03/08/06
SECTION: 2780 TIME LAST CHANGED: 07:14:41

REQUESTER: KSC
SUBREQUESTER: TA-E
TEST CODE: CCAFS STSALL
TRACKING NO. COMREV05 DB98 KING2001 L3918 MK98
R109-49 R26209 R4202 R4218 SHAW95
PRIORITY: REQUIRED
RATIONALE: REQUIRED FOR NASA MANAGEMENT POSITION

1. DESCRIPTION: TV MON. FOR NASA A/F MGT. OFF AT CCAFS

PROVIDE A TV MONITOR AT THE FOLLOWING LOCATIONS: ROCC, CONTROL

CONTINUED

[PRD] DATABASE RECORD: 224575
ITEM NUMBER: K17E

ROOM, NASA MGMT AND NASA RANGE SAFETY REP'S CONSOLES; ROCC, LRCC, NASA PROJECT CONSOLE. EACH TV MONITOR SHOULD HAVE SWITCH CAPABILITY TO ONE OF THE FOLLOWING TV FEEDS: RSO PROGRAM; RSO FLIGHT LINE; RANGE VIDEO TRACKING CAMERAS; KSC CDS SWITCHER OUTPUT; KSC SWITCHER 7/8 OUTPUT; CCAFS WEATHER BRIEFING, 24 HR WX; RS DISPLAYS; SCO DISPLAYS.

TECHNICAL CONTACT: WILLIAM HAASE/TA-E/321 494-9163

POINT OF CONTACT: KSC/IT-D2-C/CHUCK BROWN/321-867-2090

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/22/95
RESPONSE TRACKING: Z26142 Z3955 Z4204 Z4225 Z6923

[PRD] DATABASE RECORD: 568180 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/05/02
INITIAL DATE: 12/05/02
ITEM NUMBER: G28G DATE LAST CHANGED: 11/16/06
SECTION: 2780 TIME LAST CHANGED: 07:13:13

REQUESTER: GSFC
TEST CODE: STSALL
TRACKING NO. COMREV05 R107-2
PRIORITY: MANDATORY
RATIONALE: MISSION SUCCESS

1. DESCRIPTION: WLPS AND NASA HQ TIMING CIRCUITS

NISN WILL PROVIDE A CONDITIONED ANALOG CIRCUIT BETWEEN BOTH WLPS AND NASA HQ FOR TRANSMISSION OF THE COUNTDOWN TIMING RECEIVED FROM MIL AT GSFC.

REF. DBR 209399, LLS 2780

TECH CONTACT: GSFC/AL DUANY/301 286-2721

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2780 - OTHER COMMUNICATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 568180
ITEM NUMBER: G28G

RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/05/02

[PRD] DATABASE RECORD: 568181 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/05/02
INITIAL DATE: 12/05/02
ITEM NUMBER: TGH29G DATE LAST CHANGED: 11/16/06
SECTION: 2780 TIME LAST CHANGED: 07:13:13

REQUESTER: JSC GSFC MSFC
TEST CODE: STSALL
TRACKING NO. COMREV05 GSFCREV06 R107-2

1. DESCRIPTION: JSC AND MSFC TIMING CIRCUITS

NISN WILL PROVIDE ANALOG CONDITIONED CIRCUITS TO JSC AND MSFC
FOR TRANSMISSION OF COUNTDOWN.

REF. DBR 209399, LLS 2780

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/05/02

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 202437 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/11/88
INITIAL DATE: 07/11/88
ITEM NUMBER: H2K DATE LAST CHANGED: 12/13/06
SECTION: 2800 TIME LAST CHANGED: 13:51:10

REQUESTER: MSFC
SUBREQUESTER: STSR28
TEST CODE: KSC STSALL TVPLAN

ASSOCIATED DOC: 20007S 20014S 20017S
TRACKING NO. KING2001 R109-44 R26137 R26157 R26249
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. TYPE EQUIPMENT: LC-39 OTV CAMERAS
2. SUBJECT VIEWED: SHUTTLE ACTIVITIES
3. LOCATION: KSC
4. PERIOD: CALL UP TO END OF TEST OR LOV AT LAUNCH.
5. PURPOSE/
REMARKS: TRANSMISSION TO MSFC FOR DIST.

POC: PHILIP CAUTHEN/E060/256-544-4204
TECH CONTACT: CD70/DOM AMATORE/256-544-6533

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/11/88
RESPONSE TRACKING: Z26134 Z2673

[PRD] DATABASE RECORD: 203344 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/26/93
INITIAL DATE: 02/15/91
ITEM NUMBER: T2.1K DATE LAST CHANGED: 11/13/06
SECTION: 2800 TIME LAST CHANGED: 07:13:50

REQUESTER: JSC
TEST CODE: KSC STSALL TVPLAN

ASSOCIATED DOC: 20007S 20014S 20017S
TRACKING NO. KING2001 L102-4 L2605 L3922 L508-1
L5724 R109-44 R26137 R26249 SCRUB06
SHAW95

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 203344
ITEM NUMBER: T2.1K

1. TYPE EQUIPMENT: LC-39 A & B OTV CAMERAS
2. SUBJECT VIEWED: SHUTTLE ACTIVITIES
3. LOCATION: KSC
4. PERIOD: CALL UP TO END OF TEST OR LOV AT LAUNCH.
5. PURPOSE/ REMARKS: TRANSMISSION TO JSC OF THE INGRESS SEQUENCE AND LAUNCH SEQUENCE 3

NOTE: FOR OMI S0044, THE OTV MAYBE BE SIMULATED.

REFERENCE LLS 2755, ITEM T87K, DBR 523222

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 05/15/97
RESPONSE:
JSC WILL BE RESPOSIBLE FOR SCHEDULING EITHER AMC6 XP5 OR XP17C
TO MEET THIS REQUIREMENT.

RESPONSE TRACKING: Z26134 Z2668 Z3959 Z5729 Z6203 Z8421

[PRD] DATABASE RECORD: 14645 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/20/99
INITIAL DATE: 02/15/91
ITEM NUMBER: T3EK DATE LAST CHANGED: 10/31/06
SECTION: 2800 TIME LAST CHANGED: 09:28:24

REQUESTER: JSC
SUBREQUESTER: JSC/MO3
TEST CODE: INFO KSC RTLS STSALL TVPLAN

ASSOCIATED DOC: 20007S 20028S
TRACKING NO. KING2001 L002-16 L06-10-1 L102-4 L2730 L3922 L8409 L908-7 L911-1 L9402

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 14645
ITEM NUMBER: T3EK

L9901 R0610-2 R109-44 R26137 R3413
R9503 SCRUB06

1. DESCRIPTION: NASA SELECT TV OF KSC LAUNCH AND LANDING

THIS IS A BRIEF SUMMARY OF THE REQUIREMENT LEVIED ON KSC IN NSTS 08240, SECTION 5.0 AND 9.0. SEE THIS REFERENCE FOR ADDITIONAL INFORMATION.

KSC SHALL PROVIDE LIVE NASA SELECT COLOR TELEVISION COVERAGE OF SHUTTLE LAUNCHES AND LANDING AT KSC. VIDEO SOURCES SHALL INCLUDE MOBILE LIVE CAMERA VANS, MANNED GROUND CAMERAS, REMOTE CONTROLLED GROUND CAMERAS, AND TRACKERS.

FIXED-BASE AND MOBILE TELEVISION TRACKER SUPPORT SHALL BE OBTAINED FROM ER, SEE LLS2755 KT15EK DBR 314249 AND LLS2800 KT1EK DBR 233807.

NOTE: THIS ITEM IS INFO ONLY FOR ER, SINCE THEIR ACTION ITEMS ARE LISTED ELSEWHERE.

REQUESTER: JSC/MO3-USA/RAY BANKS/281 483-8233

TECH CONTACT: ER/CSR/WILLIAM KLEINFELDER/321 853-6886
KSC/KICS-109/MICHAEL WILLIAMSON/321 867-4123

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 12/20/99
RESPONSE TRACKING: Z9411 Z9503

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/20/99
RESPONSE TRACKING: Z26134 Z2673 Z2751 Z3407 Z3967

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 14645
ITEM NUMBER: T3EK

Z8421 Z9411 Z9503

[PRD] DATABASE RECORD: 14646 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/20/99
INITIAL DATE: 07/09/91
ITEM NUMBER: T4X DATE LAST CHANGED: 03/20/07
SECTION: 2800 TIME LAST CHANGED: 13:37:38

REQUESTER: JSC
SUBREQUESTER: JSC/MO3
TEST CODE: EAFB S61E04 STSALL TVPLAN

ASSOCIATED DOC: 20026S
TRACKING NO. KING2001 L002-16 L06-10-1 L105-12 L111-14
L406-2 L4317 L6504 L908-7 L911-1
L9901 R0610-2 R109-44 R26137 R26242
R2718 R2809 R3413 R4204

1. DESCRIPTION: TELEVISION OF LANDINGS (DRYDEN)

DRYDEN SHALL PROVIDE NASA SELECT TELEVISION OF SHUTTLE LANDINGS AT EDWARDS AFB. VIDEO SOURCES SHALL INCLUDE FIXED BASE LONG RANGE OPTICS (LRO) CAMERAS, MOBILE LIVE CAMERA VANS, A HELICOPTER AIRBORNE LIVE CAMERA, SUPPLEMENTARY VIEWS FROM ROOFTOP CAMERAS, AND CAMERAS FOR PRESS CONFERENCES AND CREW APPEARANCES. DRYDEN SHALL FURNISH THE EQUIPMENT, FACILITIES, AND SKILLED PERSONNEL NEEDED TO PROVIDE THIS TELEVISION COVERAGE.

DRYDEN SHALL FURNISH THE CAMERA, OTHER TELEVISION EQUIPMENT, AND TELEVISION CREW MEMBERS FOR THE HELICOPTER, AVIATION SUPPORT SHALL BE OBTAINED FROM DOD.

JSC SUPPORT VIDEO IS LIVE VIDEO FROM THE JSC MCC FOR DRYDEN TO USE IN NASA SELECT.

SEE NSTS 08240, SECTION 12.0 FOR ADDITIONAL INFORMATION ON THIS REQUIREMENT.

NOTE: THIS ITEM IS INFO ONLY FOR ER AND GSFC SINCE THEIR ACTION

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 14646
ITEM NUMBER: T4X

IS LISTED ELSEWHERE.

TECH CONTACT: JSC/MO3-USA/RAY BANKS/281 483-8233

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/20/99
RESPONSE TRACKING: Z26152 Z2695 Z3407 Z4208 Z4345
Z6564

[PRD] DATABASE RECORD: 322111 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/16/88
INITIAL DATE: 06/16/88
ITEM NUMBER: K5X DATE LAST CHANGED: 03/20/07
SECTION: 2800 TIME LAST CHANGED: 13:38:14

REQUESTER: KSC
SUBREQUESTER: KSC/IT-D2-C KSC/PH-L
TEST CODE: DFRC EAFB S0026.200 S0026.300
STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. COMREV05 DB98 KING2001 R109-44 R26200
R2809
PRIORITY: REQUIRED
RATIONALE: REQUIRED TO SUPPORT LANDING AND POST LANDING OPERATIONS
AT DFRC.

1. TYPE EQUIPMENT: TWO OVERHEAD MONITORS
2. SUBJECT VIEWED: ORBITER AND CONVOY GSE
3. LOCATION: ORBITER HANGAR, BLDG. 4833, RM. 102 AT DFRC
4. PERIOD: LANDING AND POST-LANDING
5. PURPOSE/
REMARKS: PROVIDE OPERATIONAL AND ENGINEERING VISIBILITY
FOR LOCAL CONTROL AND RAPID RESPONSE TO ACTION
ITEMS WHICH DEVELOP AS A RESULT OF LOC VEHICLE
MONITORING. MONITOR OF EXISTING GROUND VIDEO AT

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 322111
ITEM NUMBER: K5X

DFRC

POINT OF CONTACT: CHUCK BROWN/IT-D2-C/321 867-2090

TECH CONTACT: KSC/PH-L/DEAN SCHAAF/321 861-9311
KSC/USK-426/MIKE KUTA/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/16/88
RESPONSE TRACKING: Z2695

[PRD] DATABASE RECORD: 323706 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/09/97
INITIAL DATE: 06/16/89
ITEM NUMBER: E6DEGHKT DATE LAST CHANGED: 05/30/07
SECTION: 2800 TIME LAST CHANGED: 10:33:20

REQUESTER: ER
TEST CODE: CCAFS INFO STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 L8108 R109-44 R2880 SCRUB06
PRIORITY: MANDATORY
RATIONALE: RANGE SAFETY - REQUIRED FOR THE RANGE

1. TYPE EQUIPMENT: RANGE SAFETY PROGRAM TV CAMERA
2. SUBJECT VIEWED: LAUNCH
3. LOCATION: VARIOUS
4. PERIOD: T-0 TO LOV
5. PURPOSE/
REMARKS: RANGE SAFETY PROGRAM TV (ER PROVIDED CAMERAS AND
MICROWAVE SYSTEM FOR TRANSMISSION TO ER).

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 323706
ITEM NUMBER: E6DEGHKT

POINT OF CONTACT: KSC/CHUCK BROWN/IT-D2-C/
321/867-2090

USAF/MIKE GAWEL
321-853-8118

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z2866 Z8134

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z2866 Z8134

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z2866 Z8134

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z2866 Z8134

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-700

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z2866 Z8134

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 323706
ITEM NUMBER: E6DEGHKT

RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z2866 Z8134

[PRD] DATABASE RECORD: 324597 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/09/97
INITIAL DATE: 06/16/89
ITEM NUMBER: E7DEGHKT DATE LAST CHANGED: 05/30/07
SECTION: 2800 TIME LAST CHANGED: 10:33:20

REQUESTER: ER
TEST CODE: CCAFS INFO STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 L8108 R109-44 R2880 SCRUB06
PRIORITY: MANDATORY
RATIONALE: RANGE SAFETY - REQUIRED FOR THE RANGE.

1. TYPE EQUIPMENT: RANGE SAFETY FLIGHT LINE TV CAMERA
2. SUBJECT VIEWED: LAUNCH
3. LOCATION: VARIOUS
4. PERIOD: T-0 TO LOV
5. PURPOSE/
REMARKS: RANGE SAFETY FLIGHT LINE TV (ER PROVIDED CAMERAS
AND MICROWAVE SYSTEM FOR TRANSMISSION TO ER).

POINT OF CONTACT: KSC/CHUCK BROWN/IT-D2-C/
321/867-2090

USAF/MIKE GAWEL/
321-853-8118

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z2866 Z8134

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 324597
ITEM NUMBER: E7DEGHKT

SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z2866 Z8134

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z2866 Z8134

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z2866 Z8134

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-700

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z2866 Z8134

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z2866 Z8134

[PRD] DATABASE RECORD: 324923 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/30/89
INITIAL DATE: 06/30/89
ITEM NUMBER: T12K DATE LAST CHANGED: 12/13/06
SECTION: 2800 TIME LAST CHANGED: 13:54:17

REQUESTER: JSC
SUBREQUESTER: JSC/CA4
TEST CODE: KSC STSALL
TRACKING NO. KING2001 L03-1-1 L104-14 L906-8 R109-44

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 324923
ITEM NUMBER: T12K

R2886

1. DESCRIPTION: CCTV MONITORS - FLIGHT CREW QUARTERS

PROVIDE THREE CCTV COLOR MONITORS WITH AUDIO CAPABILITY IN THE FLIGHT CREW QUARTERS OF THE O&C BUILDING, RM. 3267. TWO MONITORS ARE TO BE LOCATED IN THE CONFERENCE ROOM, THE OTHER IN THE DINING ROOM. TWO MONITORS ARE NOT TO BE SLAVED UNITS. EACH UNIT MUST HAVE CHANNEL SELECTION CAPABILITY OF OPERATING FROM EITHER RF RECEPTION OR PATCHABLE HARDWIRE.

PRIME REQUESTER: JSC/CA4/ROBERT HANLEY/281-244-8654
TECH CONTACT: LAUREN LUNDE/CA4-A/321 867-2005

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/10/89
RESPONSE:
KSC INTERNAL INFO ONLY:
MONITORS 2033, 2034 (CONFRM)2034A (DINRM)

RESPONSE TRACKING: Z2869

[PRD] DATABASE RECORD: 305672 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/13/88
INITIAL DATE: 12/13/88
ITEM NUMBER: T12.1K DATE LAST CHANGED: 01/18/07
SECTION: 2800 TIME LAST CHANGED: 13:47:20

REQUESTER: JSC
SUBREQUESTER: I-PH-B JSC/CA4
TEST CODE: KSC S51J02 SLF STSALL
TVPLAN

ASSOCIATED DOC: 20007S 20017S
TRACKING NO. KING2001 L03-1-1 L104-14 L2604 R109-44
R2916

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 305672
ITEM NUMBER: T12.1K

PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: CCTV MONITORS - LACB

PROVIDE ONE 19" COLOR MONITOR IN THE LACB OPS ROOM 5A. INPUT WILL BE BETWEEN WEATHER VISION DISPLAY AND NASA SELECT, VOICE AND VIDEO.

PRIME REQUESTER: JSC/CA4/ROBERT HANLEY/281-244-8654

TECHNICAL CONTACT: KSC/SGS-346/WILLIAM PLUTT/321 867-2100
KSC/CHUCK BROWN/IT-D2-C/321 867-2090

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/20/88
RESPONSE: MONITOR 1062

RESPONSE TRACKING: Z2953

[PRD] DATABASE RECORD: 306225 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/13/88
INITIAL DATE: 12/13/88
ITEM NUMBER: T12.2K DATE LAST CHANGED: 01/18/07
SECTION: 2800 TIME LAST CHANGED: 13:47:38

REQUESTER: JSC
SUBREQUESTER: I-PH-B JSC/CA4
TEST CODE: KSC S51J02 SLF STSALL
TVPLAN

ASSOCIATED DOC: 20007S 20017S
TRACKING NO. KING2001 L03-1-1 L104-14 L2604 R109-44
R2916
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

CONTINUED

[PRD] DATABASE RECORD: 306225
ITEM NUMBER: T12.2K

1. DESCRIPTION: CCTV MONITORS - LACB

PROVIDE A CCTV 19" COLOR MONITOR IN THE LACB LOBBY (RM 4) INPUT WILL BE SELECTABLE BETWEEN WEATHER VISION DISPLAY & NASA SELECT, VOICE & VIDEO

POINT OF CONTACT: JSC/CA4/ROBERT HANLEY/281-244-8654

TECHNICAL CONTACT: KSC/SGS-346/WILLIAM PLUTT/321 867-2100
KSC/CHUCK BROWN/IT-D2-C/321 867-2090

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/20/88
RESPONSE: MONITOR 1062A

RESPONSE TRACKING: Z2935

[PRD] DATABASE RECORD: 306915 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/17/88
INITIAL DATE: 05/17/88
ITEM NUMBER: T12.4K DATE LAST CHANGED: 01/18/07
SECTION: 2800 TIME LAST CHANGED: 13:47:54

REQUESTER: JSC
SUBREQUESTER: JSC/CA4
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20007S 20017S
TRACKING NO. KING2001 L03-1-1 L104-14 L2604 R109-44

1. DESCRIPTION: CCTV MONITORS-LCC

PROVIDE A CCTV 19" COLOR MONITOR IN LCC3 BEHIND CONSOLE AA-4 INPUT WILL BE WEATHER VISION DISPLAY.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 306915
ITEM NUMBER: T12.4K

POINT OF CONTACT: JSC/CA4/ROBERT HANLEY/281-244-8654

TECHNICAL CONTACT: KSC/CHUCK BROWN/IT-D2-C/321 867-2090

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/17/88
RESPONSE: MON# 194

[PRD] DATABASE RECORD: 222350 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/15/88
INITIAL DATE: 11/15/88
ITEM NUMBER: T12.4.1K DATE LAST CHANGED: 01/18/07
SECTION: 2800 TIME LAST CHANGED: 13:48:23

REQUESTER: JSC
SUBREQUESTER: JSC/CA4
TEST CODE: KSC STSALL TVPLAN

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 L03-1-1 L04-7-2 L104-14 L2718
R109-44

1. DESCRIPTION: CCTV MONITORS - LCC VITT OFFICE

PROVIDE ONE CCTV COLOR MONITOR WITH AUDIO CAPABILITY IN THE LCC VITT OFFICE, ROOM 1R25, TO ALLOW THE JSC VEHICLE INTEGRATION ENGINEERS AND ASTRONAUTS TO MONITOR ACTIVITIES. THIS UNIT MUST HAVE CHANNEL SELECTION CAPABILITY AND CAPABILITY OF OPERATIONS FROM EITHER RF RECEPTION OR PATCHABLE HARDWIRE. THE UNIT MUST BE EQUIPPED TO RECEIVE BOTH OTV CIRCUITS AND PAO RELEASE. THE UNIT MUST BE WALL MOUNTED AND CAPABLE OF SWIVELING & REMOTE CONTROL (OR ALTERNATE CHANNEL SELECTION CAPABILITY).

PRIME REQUESTER: JSC/CA4/ROBERT HANLEY/281-244-8654

TECHNICAL CONTACT: KSC/CA4-A/LAUREN LUNDE/321-867-2005

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 222350
ITEM NUMBER: T12.4.1K

SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/15/88
RESPONSE: MON# 368

RESPONSE TRACKING: Z2748

[PRD] DATABASE RECORD: 243606 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/21/88
INITIAL DATE: 11/21/88
ITEM NUMBER: T12.6K DATE LAST CHANGED: 01/18/07
SECTION: 2800 TIME LAST CHANGED: 13:48:55

REQUESTER: JSC
SUBREQUESTER: JSC/CA4
TEST CODE: KSC STSALL TVPLAN

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 L03-1-1 L104-14 L2718 L2755
R109-44

1. DESCRIPTION: CCTV MONITORS - O&C ROOM 3277E

PROVIDE ONE CCTV COLOR MONITOR WITH AUDIO CAPABILITY IN THE O&C ROOM 3277E TO ALLOW THE ASTRONAUTS TO MONITOR ACTIVITIES. THIS UNIT MUST HAVE CHANNEL SELECTION CAPABILITY AND CAPABILITY OF OPERATIONS FROM EITHER RF RECEPTION OR PATCHABLE HARDWIRE. THE UNIT MUST BE EQUIPPED TO RECEIVE BOTH OTV CIRCUITS AND PAO RELEASE. THE UNIT MUST BE WALL MOUNTED AND CAPABLE OF SWIVELING AND REMOTE CONTROL (OR ALTERNATE CHANNEL SELECTION CAPABILITY).

PRIME REQUESTER: JSC/CA4/ROBERT HANLEY/281 244-8654

TECH CONTACT: KSC/CA4-A/LAUREN LUNDE/321 867-2005

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 243606
ITEM NUMBER: T12.6K

SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/21/88
RESPONSE: MONITOR 2165

RESPONSE TRACKING: Z2766

[PRD] DATABASE RECORD: 174345 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/16/88
INITIAL DATE: 06/16/88
ITEM NUMBER: K17X DATE LAST CHANGED: 03/20/07
SECTION: 2800 TIME LAST CHANGED: 13:38:53

REQUESTER: KSC
SUBREQUESTER: IT-D2-C
TEST CODE: EAFB STSALL TVPLAN

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 R109-44 R26137 R26200
R2809

1. TYPE EQUIPMENT: ONE TV CAMERA - CONVOY MOBILE UNIT
2. SUBJECT VIEWED: ORBITER LANDING
3. LOCATION: EAFB
4. PERIOD: APPROACH AND LANDING THRU START OF TOW OPERATIONS
5. PURPOSE/
REMARKS: TO BE CO-SHARED WITH PAO AND TO BE USED FOR CONTINGENCY OPERATIONS. TO BE DISPLAYED IN CONTROL ROOMS OF BUILDING 4800 AND BUILDING 4836.

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/ 661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/16/88
RESPONSE TRACKING: Z2695

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 174345
ITEM NUMBER: K17X

[PRD] DATABASE RECORD: 178193 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/16/88
INITIAL DATE: 06/16/88
ITEM NUMBER: K20X DATE LAST CHANGED: 03/20/07
SECTION: 2800 TIME LAST CHANGED: 13:40:15

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L KSC/USK-426
TEST CODE: EAFB STSALL TVPLAN
TRACKING NO. COMREV05 DB98 KING2001 R109-44 R26137
R26200 R2809
PRIORITY: REQUIRED
RATIONALE: REQUIRED FOR ORBITER/SCA DESERVICING AND FERRYING PREPS AT DFRC.

1. TYPE EQUIPMENT: OTV CAMERAS
2. SUBJECT VIEWED: ORBITER/SCA AT MDD AND MDD APRON
3. LOCATION: DFRC-MDD APRON AREA
4. PERIOD: DESERVICING FERRYING PREPARATIONS
5. PURPOSE/
REMARKS: TO BE DISPLAYED IN BLDG. 4833 CONTROL ROOM.

TECH CONTACT: KSC/PH-L/DEAN SCHAAF/321 861-9311
KSC/USK-426/MIKE KUTA/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/16/88
RESPONSE TRACKING: Z2695

[PRD] DATABASE RECORD: 180777 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/21/98
INITIAL DATE: 09/18/89
ITEM NUMBER: K22EK DATE LAST CHANGED: 11/14/06
SECTION: 2800 TIME LAST CHANGED: 14:09:40

REQUESTER: KSC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 180777
ITEM NUMBER: K22EK

SUBREQUESTER: DYN-2 KSC/TA
TEST CODE: CCAFS STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 L104-14 L3401 L4213 L9503
MK98 R109-44 SCRUB06 VAL92004 VALE
PRIORITY: REQUIRED
RATIONALE: ALTERNATE COMMUNICATION SOURCE AVAILABLE.

1. TYPE EQUIPMENT: MONITOR (B&W)
2. SUBJECT VIEWED: GROUND HCL CLOUD COVERAGE
3. LOCATION: CCAFS, ROCC
4. PERIOD: LAUNCH OPERATIONS ONLY (L-30 MIN.)
5. PURPOSE/
REMARKS: REQUIRED FOR ENVIRONMENTAL EVALUATION CENTER OPERATIONS. TV INPUT IS FROM PAD 39 CAMERAS ON TV CIRCUIT 6TVC2083.

PRIME REQUESTER: KSC/TA/BURT SUMMERFIELD/
321 867-4598
DYN-2/CARLTON HALL/321 476-4102

TECH CONTACTS: ER/MIKE GAWEL/321 853-8118

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/26/98
RESPONSE TRACKING: Z3455 Z4241 Z9511

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/21/98

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 353496 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/01/07
INITIAL DATE: 03/22/88
ITEM NUMBER: K25EK DATE LAST CHANGED: 02/01/07
SECTION: 2800 TIME LAST CHANGED: 12:32:56

REQUESTER: KSC
SUBREQUESTER: XA-E1
TEST CODE: KSC STSALL TVPLAN

ASSOCIATED DOC: 20028S
TRACKING NO. KING2001 L7610 L7913 MK98 R0702-2
R109-44 R26137 R2809 R7502
PRIORITY: REQUIRED
RATIONALE: ALTERNATE COMMUNICATION SOURCE AVAILABLE.

1. DESCRIPTION: TELEVISION - TRACKER SUPPORT FOR EOM LANDING
(LANDING-30 MINUTES)

PROVIDE LIVE COLOR TELEVISION TRACKER SUPPORT AT UCS-12 AND UCS-23 FOR END-OF-MISSION LANDING AT KSC. FEED LIVE VIDEO TO KSC NF.

TECH CONTACT: KSC/JOSIEL TORRES/321 861-3562
CSR/WILLIAM KLEINFELDER/321 853-6886

NOTE:

1. VIDEO FROM THE FOLLOWING SITES WILL BE EXTENDED TO KSC DURING DAYTIME LANDINGS:
PAFB DOAMS
PB DOAMS
UCS-23
UCS-12
2. VIDEO FROM UCS-12 (INFRARED) WILL BE EXTENDED TO KSC DURING NIGHT LANDINGS.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/01/07
RESPONSE TRACKING: Z2686 Z7704

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 353496
ITEM NUMBER: K25EK

SUBSUPPLIER: IT-D2-C KICS-109 KICS-700

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/01/07
RESPONSE TRACKING: Z26134 Z2682 Z4713 Z7601 Z7603
Z7606 Z7917

[PRD] DATABASE RECORD: 10353 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/22/02
INITIAL DATE: 10/23/91
ITEM NUMBER: T28K DATE LAST CHANGED: 01/09/07
SECTION: 2800 TIME LAST CHANGED: 08:27:17

REQUESTER: JSC
SUBREQUESTER: JSC/KX JSC/MV MS087
TEST CODE: STSALL TVPLAN

ASSOCIATED DOC: 20007S
TRACKING NO. A106-1 KING2001 L004-7 L007-7 L04-2-1
L104-14 L105-13 L110-2 L111-14 L203-6
L204-7 L206-12 L2604 L2704 L2904
L2933 L2956 L2975 L3043 L3113
L3507 L408-2 L4405 L4507 L4602
L4823 L4946 L6402 L710-3 L711-2
L7905 L806-1 L8702 L8708 L901-2
L903-1 L908-10 L911-1 L9202 L9901
MEMO12 R0402-1 R109-44 R26137 R2624
R2648 R2663 R2931 R2946 R3442
R4204 R9310 SHAW94

1. DESCRIPTION: VIDEO COMPOSITE TAPE (LAUNCH)

PROVIDE A COMPOSITE VIDEO TAPE OF ALL TV VIEWS, T-1 MINUTE TO LOV, FROM THE FOLLOWING TELEVISION CAMERAS:

CAMERA NUMBERS	CAMERA LOCATIONS
009/109	FSS 95' LEVEL
CS-1(002)	PAD PHOTO TRACKER (PERIMETER SITE #1)
CS-2(041)	PAD PHOTO TRACKER (PERIMETER SITE #2)
CS-6(048)	PAD PHOTO TRACKER (PERIMETER SITE #6)

CONTINUED

[PRD] DATABASE RECORD: 10353
ITEM NUMBER: T28K

141	FSS 260' LEVEL
049/149	MLP "0" LEVEL-LO2 T-0 DISCONNECT
050/150	MLP "0" LEVEL-LH2 T-0 DISCONNECT
051/151	MLP "0" LEVEL
054/154	MLP SIDE 4 "0" LEVEL
060/160	WATER TOWER
061/161	FSS 255' LEVEL
063/163	FSS 155'
070/170	SE FIELD
071/171	SW FIELD
TV-2	VAN AT SLF CONVOY
TV-4 A/B	VAN AT K8-741/J8-1821
TV-5	VAB ROOF
TV-11	VAN AT SLFTV TWR #1 (SOUTH END)
TV-13	PATRICK DOAMS
TV-21 A/B	VAN AT UCS-15/DLTR #3
TV-18/ESV-204	PAFB DOAMS, 200" LENS
ESV-304	PAFB DOAMS, 120" LENS
ESV-207	PLAYALINDA BEACH DOAMS, 200" LENS
ESV-307	PLAYALINDA BEACH DOAMS, 100" LENS
ESV-212	UCS-23 ATOTS, 160" LENS
ESV-215	UCS-11 ATOTS, 260" LENS

IRIG-B TIMING IS REQUIRED ON THE AUDIO CHANNEL #2. BLACK AND WHITE OTV VIEWS, WITH GMT AND COUNTDOWN TIMING IN THE VIDEO, MAY BE ADDED TO THE COMPOSITE TAPE AS REQUESTED REAL TIME. THE COMPOSITE TAPE SHOULD BE A FIRST GENERATION FROM THE ORIGINALS, IF POSSIBLE.

PRIME REQUESTER: JSC/MV/KENNETH BROWN/281 483-3891

TECH CONTACT: JSC/SX3/GREGORY BYRNE/281 483-0500

COORDINATION: JSC/SX3/JON DISLER/281 244-5182

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	SVHS OR DIGITAL BETACAM FORMAT	1	UPON REQUEST ONLY	JSC/GT45/PATRICK CHIMES 281 483-2397

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 10353
ITEM NUMBER: T28K

	VIDEO TAPE			
2	SUPER VHS 1/2" VIDEO TAPE	1	UPON REQUEST ONLY	B-NS/HOU/HS4-401/ GAIL HARGROVE/281 226-5575

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 I-IT-D2-C KICS-109
KICS-700 USK-614

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 02/22/02
RESPONSE:
KICS-109 RESPONSE IS: CONTROL OF 049/149 AND 050/150 THRU T-0
BELONGS TO CLOX/CGSS AND CLHY/CGSS AND THEY DETERMINE
THE FIELD OF VIEW.

KICS-700 RESPONSE IS WILCO SEERSP: M-II IS BEING PHASED OUT.
SOME M-II RECORDERS MAY BE USED UNTIL REPLACEMENT UNITS ARE
DELIVERED. ALL FINAL PRODUCTS WILL BE DELIVERED IN REQUIRED
FORMAT.

RESPONSE TRACKING:	Z26134	Z2731	Z2951	Z3056	Z3148
	Z3441	Z3514	Z3579	Z3838	Z4032
	Z4043	Z4437	Z4461	Z4524	Z4613
	Z4835	Z4951	Z6402	Z8714	Z8721

[PRD] DATABASE RECORD: 517000 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/14/06
INITIAL DATE: 10/22/91
ITEM NUMBER: H28.0.1K DATE LAST CHANGED: 11/14/06
SECTION: 2800 TIME LAST CHANGED: 07:24:41

REQUESTER: MSFC
SUBREQUESTER: MS087 MS129
TEST CODE: STSALL TVPLAN

ASSOCIATED DOC: 20007S

TRACKING NO.	A4401	KING2001	L203-6	L4403	L4507
	L4701	L710-3	L8702	L911-1	L9901
	R109-44	SCRUB06			

CONTINUED

[PRD] DATABASE RECORD: 517000
ITEM NUMBER: H28.0.1K

PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: VIDEO COMPOSITE TAPE (LAUNCH) FOR MSFC PAO

PROVIDE A COMPOSITE VIDEO TAPE OF ALL TV VIEWS, T-1 MINUTE TO LOV, FROM THE FOLLOWING TELEVISION CAMERAS:

009/109	FSS 95' LEVEL
CS-1(002)	PAD PHOTO TRACKER (PERIMETER SITE #1)
CS-2(041)	PAD PHOTO TRACKER (PERIMETER SITE #2)
CS-6(048)	PAD PHOTO TRACKER (PERIMETERE SITE #6)
141	FSS 260' LEVEL
049/149	MLP "0" LEVEL-LO2 T-0 DISCONNECT
050/150	MLP "0" LEVEL-LH2 T-0 DISCONNECT
051/151	MLP "0" LEVEL
054/154	MLP SIDE 4 "0" LEVEL
060/160	WATER TOWER
061/161	FSS 255' LEVEL
063/163	FSS 155' LEVEL
070/170	SE FIELD
071/171	SW FIELD
TV-2	VAN AT SLF CONVOY
TV-4 A/B	VAN AT K8-741/J8-1821
TV-5	VAB ROOF
TV-11	VAN AT SLF TV TWR #1 (SOUTH END)
TV-13	PATRICK DOAMS
TV-21 A/B	VAN AT UCS-15/DLTR #3
TV-18/ESV-204	PAFB DOAMS, 200" LENS
ESV-304	PAFB DOAMS, 120" LENS
ESV-207	PLAYALINDA BEACH DOAMS, 200" LENS
ESV-307	PLAYALINDA BEACH DOAMS, 100" LENS
ESV-212	UCS-23 ATAOTS, 160" LENS
ESV-215	UCS-11 ATOTS, 260" LENS

IRIG-B TIMING IS REQUIRED ON THE AUDIO CHANNEL #2, BLACK AND WHITE OTV VIEWS, WITH GMT AND COUNTDOWN TIMING IN THE VIDEO, MAY BE ADDED TO THE COMPOSITE TAPE AS REQUESTED REAL TIME. THE COMPOSITE TAPE SHOULD BE A FIRST GENERATION FROM THE ORIGINALS.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 517000
ITEM NUMBER: H28.0.1K

PRIME REQUESTER: MSFC/CD70/DOMINIC AMATORE/256 544-6533

TECH CONTACT: MSFC/CD70/DAVE DRACHLIS/256-544-653806

COORDINATION: MSFC/EO60/PHILIP CAUTHEN/256-544-4204

REFERENCE: T28K, LLS2800, DBR 010353

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	BETA SP FORMAT VIDEO TAPE	1	*	MSFC/CD70/DOMINIC AMATORE 256 544-6533

* UPON REQUEST ONLY. MINIMUM TIME REQUIRED: T+48 HOURS.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 I-IT-D2-C KICS-109
KICS-700 TGS-1 USK-113
USK-614

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/14/06
RESPONSE TRACKING: Z4461 Z4524 Z4701 Z8714

[PRD] DATABASE RECORD: 14648 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/14/06
INITIAL DATE: 10/23/91
ITEM NUMBER: HT28.1K DATE LAST CHANGED: 07/02/07
SECTION: 2800 TIME LAST CHANGED: 09:30:04

REQUESTER: MSFC JSC
SUBREQUESTER: JSC/B-NS JSC/KX JSC/MV MS026
MS060
TEST CODE: STSALL TVPLAN

ASSOCIATED DOC: 20007S

CONTINUED

[PRD] DATABASE RECORD: 14648
ITEM NUMBER: HT28.1K

TRACKING NO.	A106-1	L001-1	L004-7	L007-7	L03-8-5
	L04-2-1	L04-8-1	L104-14	L105-13	L110-2
	L204-7	L206-10	L206-12	L2908	L2933
	L3025	L3113	L3225	L3507	L3563
	L3829	L3914	L4008	L4036	L408-2
	L4306	L4405	L4602	L4946	L5016
	L601-6	L6203	L6402	L7506	L806-1
	L901-24	L908-10	L911-1	L9901	R0402-1
	R109-44	R26137	R2931	R9310	RTF114-9
	SCRUB06				

PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: FIRST ENGINEERING VIDEO REPLAY VIA SATELLITE (LAUNCH)

   TRANSMIT ENGINEERING REPLAYS OF LAUNCH TV VIDEO COVERAGE TO OTHER CENTERS ON AMC-6 TRANSPONDER 5. REF: DBR 013952, LLS 2755, T44EGHKTX. IRIG-B TIMING IS REQUIRED ON AUDIO CHANNEL #2. DURATION OF EACH TV VIEW WILL BE T-30 SECONDS TO LOV OR SRB SEPARATION PLUS 30 SECONDS AND WILL CONSIST OF THE FOLLOWING TELEVISION CAMERAS:

CAMERA NUMBERS	CAMERA LOCATIONS
009/109	FSS 95' LEVEL
CS-1(002/102)	PAD PHOTO TRACKER (PERIMETER SITE #1)
CS-2(041/141)	PAD PHOTO TRACKER (PERIMETER SITE #2)
CS-6(048/148)	PAD PHOTO TRACKER (PERIMETER SITE #6)
041/141	FSS 260' LEVEL
049/149	MLP "0" LEVEL-LO2 T-0 DISCONNECT
050/150	MLP "0" LEVLE-LH2 T-0 DISCONNECT
051/151	MLP "0" LEVEL
054/154	MLP SIDE 4 "0" LEVEL
060/160	WATER TOWER
061/161	FSS 255' LEVEL
063/163	FSS 155' LEVEL
070/170	SE FIELD
071/171	SW FIELD

CONTINUED

[PRD] DATABASE RECORD: 14648
ITEM NUMBER: HT28.1K

TV-2	VAN AT SLF CONVOY (SEE NOTE)
TV-4 A/B	VAN AT K8-741/J8-1821
TV-5	VAB ROOF
TV-11	VAN AT SLF TV TWR #1 (SOUTH END)
TV-13	PATRICK DOAMS
TV-21 A/B	VAN AT UCS-15/DLTR #3

NOTE: TV-2 AND TV-11 SHOULD BE PLAYED ONLY IN CASE OF AN RTLS.

PRIME REQUESTER: JSC/MV/KENNETH BROWN/281 483-3891
TECH CONTACT: JSC/SN3/GREGORY BYRNE/281 483-0500
COORDINATION: JSC/SN3/JON DISLER/281 483-5182

DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	SATELLITE TRANSMISSION	1 PLAY BACK	T+45 MIN	JSC/GT45/PATRICK CHIMES 281 483-2397
2	SATELLITE TRANSMISSION	1 PLAY BACK	T+45 MIN	GEORGE BAKER MSFC/GETRONICS 256-544-6161
3	SATELLITE TRANSMISSION	1 PLAY BACK	T+45 MIN	B-NS/HOU/GAIL HARGROVE/ HS4-401/281 226-5575
4	SATELLITE TRANSMISSION	1 PLAY BACK	T+45 MIN	TOM RIECKHOFF/TD53 MSFC/256 544-7677

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 11/14/06
RESPONSE:
THERE IS CURRENTLY ONLY ONE (1) AUDIO SUBCARRIER ON THE REPLAY
TRANSPONDER (AMC-6 TRANSPONDER 5) WITH COMPATIBLE EQUIPMENT AT ALL

CONTINUED

[PRD] DATABASE RECORD: 14648
ITEM NUMBER: HT28.1K

SITES. THIS SUBCARRIER CURRENTLY SUPPORTS BOTH AUDIO AND IRIG-B TIMING REQUIREMENTS. THE ADDITION BY NASCOM OF ONLY A TRANSMIT AT KSC AND RECEIVE AT JSC SUBCARRIER WOULD ALLOW ALL PRD ITEMS TO BE SUPPORTED. THE CURRENT TEST SUPPORT PLAN FOR REPLAY OF ENGINEERING VIDEO COVERAGE ASSUMES A NORMAL LAUNCH AND WILL COMMENCE AT APPROXIMATELY L+45 MIN & WILL BE APPROXIMATELY 45 MIN IN DURATION.

RESPONSE TRACKING:	Z10302	Z26134	Z2682	Z2951	Z2991
	Z3032	Z3148	Z3441	Z3552	Z3579
	Z3592	Z3602	Z3838	Z3951	Z4032
	Z4043	Z4108	Z4324	Z4461	Z4613
	Z4951	Z5008	Z6203	Z6402	Z7606
	Z8421				

[PRD] DATABASE RECORD: 14668 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/14/06
INITIAL DATE: 10/23/91
ITEM NUMBER: KT28.2K DATE LAST CHANGED: 01/19/07
SECTION: 2800 TIME LAST CHANGED: 10:08:48

REQUESTER: KSC JSC
SUBREQUESTER: JSC/B-NS JSC/KX JSC/MV KSC/IT-D2-B
TEST CODE: KSC STSALL TVPLAN

ASSOCIATED DOC: 20028S

TRACKING NO.	A106-1	DB98	KING2001	L004-7	L04-2-1
	L104-14	L105-5	L108-8	L110-2	L111-14
	L204-10	L2704	L2933	L2956	L2975
	L3113	L3507	L4008	L4028	L404-1
	L4405	L4817	L507-1	L604-1	L7913
	L806-1	L901-2	L903-1	L911-1	L9202
	L9901	R0402-1	R109-44	R26137	R2624
	R2648	R2663	R2931	R2946	R4204
	R5001	R6543	R7704	R9310	SCRUB06
	SHAW95				

PRIORITY: REQUIRED
RATIONALE: ALTERNATE SOURCES OF DATA AVAILABLE.

1. DESCRIPTION: VIDEO COMPOSITE TAPE (LANDING), KSC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 14668
ITEM NUMBER: KT28.2K

PROVIDE A COMPOSITE VIDEO TAPE OF ALL ISOLATED COLOR TV CAMERA VIEWS, LANDING - 1 MIN TO WHEELS STOP + 1 MIN, FROM THE FOLLOWING TELEVISION CAMERAS:

TV-1	SLF CONVOY
TV-2	SLF CONVOY
TV-5	VAB ROOF
TV-11	SLF TV TOWER #1
TV-13	PATRICK DOAMS
TV-15	SLF TV TOWER #2
TV-20	UCS-12 IR TRACKER (REF KPRD-I SECT 2805, ITEM K100K, DBR 013249)
TV-33	SLF MIDFIELD
EL17	SLF MIDPOINT, EAST IR
EL18	SLF MIDPOINT, WEST IR
SLF-S	SOUTH END OF RUNWAY
SLF-N	NORTH END OF RUNWAY

IRIG-B TIMING IS REQUIRED ON THE AUDIO CHANNEL 2. THE COMPOSITE TAPE SHOULD BE A FIRST GENERATION FROM THE ORIGINALS.

PRIME REQUESTER: JSC/MV/KENNETH BROWN/281 483-3891

TECH CONTACT: JSC/SN3/GREGORY BYRNE/281 483-0500
KSC/NE-M7/TOM FORD/321 861-3635

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	DIGITAL BETACAM OR SVHS FORMAT VIDEO TAPE	1	ON REQUEST ONLY	JSC/GT45/PATRICK CHIMES 281 483-2397
2	DIGITAL BETACAM OR SVHS FORMAT VIDEO TAPE	1	T+24 HRS	KSC/NE-M7/TOM FORD 321 861-3635
3	SUPER VHS 1/2" VIDEO TAPE	1	T+24 HRS	B-NS/HOU/HS4-40/ GAIL HARGROVE/281 226-5575

CONTINUED

[PRD] DATABASE RECORD: 14668
ITEM NUMBER: KT28.2K

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109 KICS-700
USK-614

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 11/14/06
RESPONSE:
TV-1 AND TV-2 VIDEO NOT AVAILABLE UNTIL AFTER WHEEL STOP.

RESPONSE TRACKING: Z10302 Z26134 Z2682 Z2731 Z2951
Z2991 Z3148 Z3514 Z4032 Z4037
Z4231 Z4461 Z4734 Z4822 Z5016
Z6533 Z6928 Z7309 Z7706 Z7804
Z7926

[PRD] DATABASE RECORD: 14667 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/22/02
INITIAL DATE: 10/23/91
ITEM NUMBER: T28.3K DATE LAST CHANGED: 01/18/07
SECTION: 2800 TIME LAST CHANGED: 13:49:37

REQUESTER: JSC
SUBREQUESTER: JSC/B-NS JSC/KX JSC/MV
TEST CODE: KSC STSALL TVPLAN

ASSOCIATED DOC: 20028S
TRACKING NO. A106-1 KING2001 L004-7 L04-2-1 L104-14
L105-5 L110-2 L111-14 L2933 L3113
L3507 L4008 L4028 L404-1 L408-2
L4405 L604-1 L6402 L7913 L806-1
L901-2 L911-1 L9901 R04-02-1 R109-44
R26137 R2931 R2946 R4204 R6543
R7704 R9310 SHAW94

1. DESCRIPTION: VIDEO REPLAY VIA SATELLITE (LANDING), KSC

TRANSMIT A REPLAY OF LANDING TIV VIDEO COVERAGE TO OTHER CENTERS ON NASA SELECT. REF: DBR 013952, LLS 2766, T44EGHKTX. IRIG-B TIMING IS REQUIRED ON AUDIO CHANNEL #2. DURATION OF EACH TV VIEW WILL BE

CONTINUED

[PRD] DATABASE RECORD: 14667
ITEM NUMBER: T28.3K

LANDING -1 MINUTE TO WHEELS STOP +1 MINUTE AND WILL CONSIST OF THE FOLLOWING TELEVISION CAMERAS:

CAMERA NUMBERS	CAMERA LOCATIONS
TV-1	SLF CONVOY
TV-2	SLF CONVOY
TV-5	VAB ROOF
TV-11	SLF TV TOWER #1
TV-13	COCOA BEACH DOAMS
TV-15	SLF TV TOWER #2
TV-20	UCS-12 IR TRACKER (REF KPRD-I SECT 2805, ITEM K100K, DBR 013249)
TV-33	SLF MIDFIELD
EL17	SLF MIDPOINT, EAST IR
EL18	SLF MIDPOINT, WEST IR
SLF-S	SOUTH END OF RUNWAY
SLF-N	NORTH END OF RUNWAY

TRANSMIT INFRARED (IR) TELEVISION CAMERAS (WHEN THEY ARE USED):

EL17 MIDFIELD TRACKER
EL18 MIDFIELD TRACKER
OTHER IR CAMERAS USED IN NIGHT LANDINGS

PRIME REQUESTER: JSC/MV/KENNETH BROWN/281 483-3891

TECH CONTACT: JSC/SN3/GREGORY BYRNE/281 483-0500

COORDINATION: JSC/SN3/JON DISLER/281 244-5182

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	SATELLITE TRANSMISSION	1 PLAY BACK	T+60 MIN (COMPLETE TRANSMISSION)	JSC/GT45/PATRICK CHIMES 281 483-2397

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 14667
ITEM NUMBER: T28.3K

2	SATELLITE TRANSMISSION	1 PLAY BACK	T+60 MIN (COMPLETE TRANSMISSION)	B-NS/HOU/GAIL HARGROVE/ HS4-40/281 226-5575

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2 IT-D2-C KICS-109
KICS-700

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 02/22/02
RESPONSE:
TV-1 AND TV-2 VIDEO NOT AVAILABLE UNTIL AFTER WHEEL STOP.

RESPONSE TRACKING: Z10302 Z26134 Z2682 Z2951 Z2991
Z3148 Z3552 Z4032 Z4037 Z4208
Z4461 Z6402 Z6533 Z7706 Z7804
Z7926

[PRD] DATABASE RECORD: 17077 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/22/02
INITIAL DATE: 05/17/91
ITEM NUMBER: KT28.4X DATE LAST CHANGED: 03/20/07
SECTION: 2800 TIME LAST CHANGED: 13:40:50

REQUESTER: KSC JSC
SUBREQUESTER: JSC/B-NS JSC/KX JSC/MV KSC/IT-D2-C
TEST CODE: DFRC EAFB S0026.200 S0026.300
S5022.200 STSALL TVPLAN

ASSOCIATED DOC: 20026S 25022S
TRACKING NO. A106-1 DB98 KING2001 L004-7 L04-2-1
L104-147 L105-5 L111-14 L2947 L3507
L4008 L4028 L507-1 L806-1 L901-2
L902-13 L908-7 L911-1 L9901 R0402-1
R109-44 R2930 R3413 R4204 R9310
SHAW95
PRIORITY: REQUIRED
RATIONALE: ALTERNATE SOURCES OF DATA AVAILABLE.

1. DESCRIPTION: VIDEO REPLAY VIA SATELLITE (LANDING), EAFB

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 17077
ITEM NUMBER: KT28.4X

TRANSMIT A REPLAY OF LANDING TV VIDEO COVERAGE TO OTHER CENTERS ON NASA SELECT; REFERENCE SECTION 2755, T44EGHKTX, DBR 013952. IRIG-B TIMING IS REQUIRED ON AUDIO CHANNEL #2. DURATION OF EACH TV VIEW WILL BE LANDING -1 MINUTE TO WHEELS STOP +1 MINUTE AND WILL CONSIST OF THE FOLLOWING COLOR TELEVISION CAMERAS:

TV-1 MOBILE AUDIO/VIDEO VAN
TV-2 MOBILE AUDIO/VIDEO VAN
TV-3 MOBILE AUDIO/VIDEO VAN
HELICOPTER (ORBITER ROLLOUT TRACK ON LAKEBED)
LONG RANGE TRACKING CAMERAS

PRIME REQUESTER: JSC/MV/KENNETH BROWN/281 483-3891

TECHNICAL CONTACT: JSC/SN3/GREGORY BYRNE/281 483-0500
KSC/PH-L/DENNY GAGEN/321 861-9301

DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ'D	RECIPIENT/REMARKS
1	SATELLITE TRANS-MISSION	1 PLAY BACK	L+60 MIN (COMPLETE TRANSMISSION)	JSC/GT45/PATRICK CHIMES 281 483-2397
2.	"	"	"	B-NS/HOU/GAIL HARGROVE/ HS4-40/281 226-5575
3.	"	"	"	KSC/NE-M7/TOM FORD 321 861-3635

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/22/02
RESPONSE TRACKING: Z2964 Z3471 Z3514 Z4020 Z4037

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 17077
ITEM NUMBER: KT28.4X

Z4208 Z6926 Z9312

[PRD] DATABASE RECORD: 16831 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/22/02
INITIAL DATE: 04/25/91
ITEM NUMBER: KT28.5X DATE LAST CHANGED: 03/20/07
SECTION: 2800 TIME LAST CHANGED: 13:41:27

REQUESTER: KSC JSC
SUBREQUESTER: JSC/KX JSC/MV KSC/IT-D2-C
TEST CODE: EAFB STSALL TVPLAN

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 L004-7 L104-14 L111-14
L204-10 L204-10A L2728 L2947 L3507
L4008 L901-2 L902-13 L911-1 L9901
R109-44 R3431 R4204 R5001 R5010
R9310
PRIORITY: REQUIRED
RATIONALE: ALTERNATE SOURCES OF DATA AVAILABLE.

1. DESCRIPTION: VIDEO COMPOSITE TAPE (LANDING), EAFB

PROVIDE A COMPOSITE VIDEOTAPE OF ALL ISOLATED COLOR TV CAMERA VIEWS, LANDING - 1 MIN. TO WHEEL STOP +1 MIN., FROM THE FOLLOWING TELEVISION CAMERAS: TV-1 MOBILE AUDIO/VIDEO VAN
TV-2 MOBILE AUDIO/VIDEO VAN
TV-3 MOBILE AUDIO/VIDEO VAN

HELICOPTER (VIDEOTAPE OF ORBITER ROLLOUT TRACK ON LAKEBED,IF AVAILABLE) LONG RANGE TRACKING CAMERAS.

IRIG-B TIMING IS REQUIRED ON THE AUDIO CHANNEL 2. THE COMPOSITE TAPE SHOULD BE A FIRST GENERATION FROM THE ORIGINALS.

PRIME REQUESTER: JSC/MV/KENNETH BROWN/281 483-3891

TECHNICAL CONTACT: JSC/SN3/GREGORY BYRNE/281 483-0500
KSC/PH-L/DENNY GAGEN/321 861-9301

CONTINUED

[PRD] DATABASE RECORD: 16831
ITEM NUMBER: KT28.5X

COORDINATION: JSC/SN3/JON DISLER/281 483-5182

REF: LLS2734 T16G DBR 013953

DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	3/4" U-MATIC VIDEO TAPE	1	T +24HRS	JSC/GT45/PATRICK CHIMES/ 281 483-2397
2	MII PREFERRED WILL ACCEPT S-VHS VIDEO TAPE	1	T +24HRS	KSC/NE-M7/TOM FORD/ 321 861-3635

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/22/02
RESPONSE TRACKING: Z2964 Z3471 Z3514 Z4020 Z4208
Z5001 Z5031

[PRD] DATABASE RECORD: 16832 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/12/07
INITIAL DATE: 07/16/91
ITEM NUMBER: HT28.6EKT DATE LAST CHANGED: 05/17/07
SECTION: 2800 TIME LAST CHANGED: 10:26:51

REQUESTER: MSFC JSC
SUBREQUESTER: JSC/B-NS JSC/MV JSC/SX3 MS026
MS059
TEST CODE: STSALL TVPLAN

ASSOCIATED DOC: 20007S
TRACKING NO. A106-1 KING2001 L004-7 L03-8-4 L04-2-1
L104-14 L105-5 L111-14 L203-6 L2728
L2908 L2933 L3019 L3025 L3032
L3043 L3437 L3507 L3914 L4008
L4303 L4339 L4507 L5009 L710-3

CONTINUED

[PRD] DATABASE RECORD: 16832
ITEM NUMBER: HT28.6EKT

L806-1	L8702	L901-2	L903-1	L904-12
L904-5	L908-7	L911-1	L9901	R0402-1
R0703-2	R109-44	R2839	R2907	R2933
R3413	R4204	R9310	RTF114-5	SCRUB06

PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: SECOND ENGINEERING LAUNCH VIDEO REPLAYS VIA SATELLITE OF REMOTE TRACKER SITES

PROVIDE VIDEO COVERAGE OF LAUNCH FROM TRACKING TELESCOPES UTILIZED FOR PHOTO COVERAGE. TRANSMIT A REPLAY OF THIS VIDEO COVERAGE TO OTHER CENTERS ON NASA SELECT. (TBD) TIMING IS REQUIRED. ACQUISITION WILL BE THE RESPONSIBILITY OF KICS-700. DURATION OF EACH TV VIEW WILL BE T-1 MINUTE TO LOV AND WILL CONSIST OF THE FOLLOWING REMOTE COLOR TELEVISION CAMERAS:

TV-18/ESV-204	PAFB DOAMS, 200" LENS
ESV-304	PAFB DOAMS, 120" LENS
ESV-207	PLAYALINDA BEACH DOAMS, 200" LENS
EHV-212	UCS-23 ATOTS, 60" LENS
ESV-215	UCS-11 ATOTS, 60" LENS

NOTES: 1. REFER TO LLS 2755, T44EGHKTX, DBR 013952 FOR WIDEBAND TRANSMISSION.
2. REFER TO LLS 2734, T16G, DBR 013953 FOR SATELLITE TRANSMISSION.
3. KSC WILL COORDINATE ACQUISITION OF VIDEO FOR TRANSMISSION OF NASA SELECT.
4. JSC WILL SCHEDULE THE SATELLITE FOR KSC VIDEO TRANSMISSION ON NASA SELECT WITH CONCURRENCE WITH GSFC. (HOUSTON TV 281 483-5995).

PRIME REQUESTER: JSC/MV6/DAVID MOYER/281 483-0893

TECHNICAL CONTACT: JSC/HOUSTON TV/281 483-5995/ROLAND NITTA/ J30R/281 483-4648

CONTINUED

[PRD] DATABASE RECORD: 16832
ITEM NUMBER: HT28.6EKT

COORDINATION: JSC/SX3/JON DISLER/281 483-5182

DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	SATELLITE TRANSMISSION	1 PLAY-BACK	T +5HRS	JSC/EDWARD WILSON/GP 281 483-7736
2	SATELLITE TRANSMISSION	1 PLAY-BACK	T +5HRS	GEORGE BAKER MSFC/GETRONICS 256-544-6161
3	SATELLITE TRANSMISSION	1 PLAY-BACK	T +5HRS	B-NS/HOU/GAIL HARGROVE HS4-40/281 226-5575
4	SATELLITE TRANSMISSION	1 PLAY-BACK	T +5HRS	MSFC/TD53/TOM RIECKHOFF 256 544-7677

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/12/07
RESPONSE:

RESPONSE TRACKING: Z5024 Z8714

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C IT-D2 KICS-109
KICS-700

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/12/07
RESPONSE:

RESPONSE TRACKING: Z10302 Z2834 Z2910 Z2949 Z2991

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 16832
ITEM NUMBER: HT28.6EKT

Z3032	Z3035	Z3056	Z3477	Z3552
Z3951	Z4032	Z4208	Z4321	Z4365
Z4524	Z5024	Z8714		

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/17/07
RESPONSE:

RESPONSE TRACKING:

Z10302	Z2834	Z29103	Z2926	Z2955
Z3030	Z3032	Z3035	Z3054	Z3407
Z3477	Z3514	Z3951	Z4208	Z4321
Z4365	Z4524	Z5024	Z8714	Z9312

[PRD] DATABASE RECORD: 10395 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/02/00
INITIAL DATE: 04/12/89
ITEM NUMBER: KT29EKX DATE LAST CHANGED: 03/20/07
SECTION: 2800 TIME LAST CHANGED: 13:42:22

REQUESTER: KSC JSC
SUBREQUESTER: JSC/B-NS JSC/MV KSC/NE-M7
TEST CODE: EAFB RTLS STSALL TVPLAN

ASSOCIATED DOC: 20026S 20028S
TRACKING NO.

A106-1	KING2001	L04-2-1	L104-14	L108-8
L110-3	L2718	L3018	L4008	L4817
L4932	L711-2	L8708	L901-2	L911-1
L9202	L9901	MK98	R0402-1	R109-44
R26137	R4430	R9310	SHAW95	

PRIORITY: REQUIRED
RATIONALE: VISIBILITY FOR CONTINGENCY ACTION.

1. DESCRIPTION: TV COVERAGE - CREW BAIL OUT (LANDING-30 MINUTES)

PROVIDE VIDEO COVERAGE OF THE ORBITER'S SIDE HATCH AREA USING EXISTING CAMERAS DURING CREW BAIL OUT (RTLS/EOM) AT THE EARLIEST

CONTINUED

[PRD] DATABASE RECORD: 10395
ITEM NUMBER: KT29EKX

POINT OF VISIBILITY. CURRENT PLANS FOR CREW ESCAPE CALL FOR JETTISON OF THE SIDE HATCH DURING A CONTROLLED GLIDE (20,000 FEET DOWN TO 5000 FT.) FOLLOWED BY CREW ESCAPE. CAMERAS NEED NOT FOCUS ON THE HATCH ITSELF BUT ON THE SIDE OF THE ORBITER. THE COVERAGE WILL BE USED TO ASSESS AND CHARACTERIZE THE JETTISON PROCEDURE. "BEST EFFORT" COVERAGE OF THE CREW AFTER BAIL OUT IS ALSO REQUIRED.

PRIME REQUESTER: JSC/MV/KENNETH BROWN/281 483-3891

TECH CONTACT: JSC/EP5/KEITH VAN TASSEL/281 483-9053
COORDINATION: JSC/SN3/JON DISLER/281 483-5182

NOTE: "E" RESPONSE IS FOR EAFB LANDINGS ONLY.
"K" RESPONSE IS FOR KSC LANDINGS ONLY.
"X" RESPONSE IS FOR EAFB LANDINGS ONLY.

DATA DISPOSITION:

KSC LANDINGS:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1KE	SVHS OR DIGITAL BETACAM FORMAT VIDEO TAPE	1	24 HRS	JSC/GT45/PATRICK CHIMES 281 483-2397
2KE	SUPER VHS 1/2" VIDEO TAPE	1	24 HRS	B-NS/HOU/HS4-40 GAIL HARGROVE/281 226-5575
3KE	SVHS OR DIGITAL BETACAM FORMAT VIDEO TAPE	1	24 HRS	KSC/NE-M7/TOM FORD 321 861-3635

EAFB LANDINGS:

1X	DIGITAL BETA CAM	1	24 HRS	JSC/GT45/PATRICK CHIMES 281 483-2397
2X	BETA SP	1	24 HRS	B-NS/HOU/HS4-40 GAIL HARGROVE/281 226-5575

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 10395
ITEM NUMBER: KT29EKX

SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/03/00
RESPONSE TRACKING: Z26185 Z26192 Z2748 Z2941 Z3028
Z4013 Z4421 Z4433 Z4956 Z8721

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 I-PH-H3 IT-D2
KICS-109 KICS-700 USK-614

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 10/30/00
RESPONSE:
ALL FINAL PRODUCTS WILL BE DELIVERED IN REQUIRED FORMAT.

RESPONSE TRACKING: Z26197 Z2682 Z2748 Z2941 Z3028
Z4032 Z4421 Z4430 Z4822 Z4956
Z8721

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/07/00
RESPONSE TRACKING: Z26128 Z2695 Z2748 Z2941 Z3028
Z4020 Z4421 Z4430 Z4829 Z4948
Z8721

[PRD] DATABASE RECORD: 10429 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/02/00
INITIAL DATE: 09/09/88
ITEM NUMBER: T30EKX DATE LAST CHANGED: 03/20/07
SECTION: 2800 TIME LAST CHANGED: 13:42:57

REQUESTER: JSC
SUBREQUESTER: JSC/B-NS JSC/KX JSC/MV
TEST CODE: EAFB LDROUT STSALL TVPLAN

ASSOCIATED DOC: 20026S 20028S

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 10429
ITEM NUMBER: T30EKX

TRACKING NO.	A106-1	KING2001	L004-7	L04-2-1	L104-14
	L108-8	L110-3	L111-14	L207-4	L2648
	L3507	L4008	L4621	L4705	L4817
	L507-1	L711-2	L7905	L806-1	L8708
	L901-2	L911-1	L9202	L9901	R0402-1
	R109-44	R26137	R26231	R2628	R2940
	R2955	R4214	R4430	R9310	SHAW95

1. DESCRIPTION: VIDEO LANDING/ROLLOUT

TRACKING TV COVERAGE (BEST AVAILABLE) IS REQUIRED FROM STARBOARD AND PORT SIDES FROM LANDING APPROACH THROUGH TOUCHDOWN AND ROLLOUT. THE ORBITER SHOULD BE IN THE CENTER OF THE FRAME; THE LENGTH SHOULD REPRESENT ONE QUARTER OF THE FIELD OF VIEW. COVERAGE SHALL BE WITHIN THE LIMITATIONS OF PLANNED CAPABILITIES AT EACH EOM LANDING SITE.

FIELD OF VIEW (FOV) WILL BE THE ENTIRE ORBITER VIEW, INCLUDING THE FULL DRAG PARACHUTE (TRAILING DISTANCE APPROXIMATELY 100 FEET) FOR SOME VIEWS

TO SHOW VEHICLE RESPONSE TO THE DRAG CHUTE DEPLOY. ALL CAMERA POSITIONS

ARE TO BE SITE SURVEYED. AZIMUTH AND ELEVATION OF CAMERA MOUNT WILL BE PROVIDED, (REF LLS3100, ITEM HT50EK, DBR 010634) AS WELL AS TIMING, (REF LLS3100, ITEM TH1.1EKXZ, DBR 227597). THE AZ/EL AND TIMING DATA SHOULD BE UPDATED FOR EACH FRAME. FIXED CAMERA FOCAL LENGTH REQUIRED.

PRIME REQUESTER: JSC/MV/KENNETH BROWN/281 483-3891

TECH CONTACT: JSC/SN3/GREGORY BYRNE/281 483-0500

DATA DISPOSITION:

KSC LANDINGS:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1KE	DIGITAL BETACAM OR SVHS FORMAT VIDEO TAPE	1	UPON REQUEST ONLY	JSC/GT45/PATRICK CHIMES/ 281 483-2397

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
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SECTION 2800 - VIDEO

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[PRD] DATABASE RECORD: 10429
ITEM NUMBER: T30EKX

2KE	SUPER VHS 1/2" VIDEO TAPE	1	24 HRS	B-NS/HOU/HS4-40/ GAIL HARGROVE/281 226-5575
EAFB LANDINGS:				
1X	DIGITAL BETA CAM	1	24 HRS	JSC/GT45/PATRICK CHIMES/ 281 483-2397
2X	BETA SP	1	24 HRS	B-NS/HOU/HS4-40/ GAIL HARGROVE/281 226-5575

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 11/03/00
RESPONSE: WILCO FOR EAFB. AT KSC, SEE KSC RESPONSE.

RESPONSE TRACKING: Z4237 Z4433 Z4709 Z7310 Z8721

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 I-PH-H2 KICS-109
KICS-700 USK-614

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 10/30/00
RESPONSE:
A. KSC RESPONSE IS FOR KSC LANDINGS ONLY.
B. THE FOLLOWING RESPONSE PERTAINS TO KSC KICS TV (KICS-109) CAPABILITIES:
1. NO CAPABILITY EXISTS FOR STARBOARD AND PORT SIDE VIEWS FROM ACQUISITION.
2. NORTH TO SOUTH LANDING: ONLY ANGLE VIEWS ARE AVAILABLE OF THE STARBOARD SIDE FROM CAMERA TOWER 2 (TV-15) ON FINAL APPROACH AND FROM THE MIDFIELD PARK SITE (TV-33) AND TOWER 1 (TV-11) OF THE PORTSIDE + THE VAB ROOF CAMERA (TV-5).
3. SOUTH TO NORTH LANDING: JUST REVERSED FROM ITEM 2.

C. THE FOLLOWING RESPONSE PERTAINS TO THE ADDITION OF PARAGRAPH TWO UNDER DESCRIPTION:

WILCO FIELD OF VIEW ONLY.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
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SECTION 2800 - VIDEO

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[PRD] DATABASE RECORD: 10429
ITEM NUMBER: T30EKX

NO CAPABILITY EXISTS FOR THE FOLLOWING REQUESTED ITEMS:
A. AZIMUTH AND ELEVATION.
B. FIXED FOCAL LENGTH CAMERA LENS.
C. TIMING.
SITE SURVEY AVAILABLE

RESPONSE TRACKING: Z26128 Z26227 Z2682 Z2941 Z2949
Z3028 Z3514 Z4032 Z4219 Z4430
Z4712 Z4822 Z6928 Z7303 Z7309
Z8721

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/07/00

[PRD] DATABASE RECORD: 532784 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/02/00
INITIAL DATE: 05/09/96
ITEM NUMBER: T30.1K DATE LAST CHANGED: 01/19/07
SECTION: 2800 TIME LAST CHANGED: 10:09:29

REQUESTER: JSC
SUBREQUESTER: JSC/B-NS JSC/KX
TEST CODE: KSC LDROUT SLF STSALL

ASSOCIATED DOC: 20028S
TRACKING NO. A106-1 KING2001 L04-2-1 L604-1 L607-1
L7705 L7902 L7905 L806-1 L911-1
L9202 L9901 R0402-1 R109-44 R7704

1. DESCRIPTION: END OF RUNWAY CAMERAS FOR DAY/NIGHT LANDING (KSC)

END OF RUNWAY VIDEO VIEWS ARE REQUIRED FOR MONITORING DRAG CHUTE PERFORMANCE, LANDING SINK RATE, LANDING GEAR STRUT COMPRESSION, ORBITER DRIFT AT TOUCHDOWN, AND CONTINGENCY ASSESSMENT.

CONTINUED

[PRD] DATABASE RECORD: 532784
ITEM NUMBER: T30.1K

TRANSMIT A REPLAY OF LANDING TV VIDEO COVERAGE OF THE END OF RUNWAY TV CAMERA VIEWS (SLF SOUTH AND SLF NORTH). IRIG-B TIMING IS REQUIRED ON AUDIO CHANNEL #2. DURATION OF EACH TV VIEW WILL BE 20 SECONDS PRIOR TO LANDING TOUCHDOWN TO WHEEL STOP.

ALSO PROVIDE ON REQUEST A COMPOSITE VIDEO TAPE (SVHS OR DIGITAL BETA CAM FORMAT) OF THE END OF RUNWAY COLOR TV VIEWS. THE COMPOSITE TAPE SHOULD BE A FIRST GENERATION FROM THE ORIGINALS.

NOTE 1: FIELD OF VIEW WILL BE THE AFT END OF THE ORBITER.

NOTE 2: END OF RUNWAY CAMERA SHOULD BE LEVELED AND LOCATED NEAR CENTERLINE. VIDEO TAPES SHOULD BE RECORDED AND DELIVERED IMMEDIATELY TO THE USA TV CONTROL ROOM LOCATED IN THE LCC, ROOM 1PZ FOR SATELLITE UPLINK. AN ALTERNATE METHOD OF DELIVERY

IS REAL TIME TRANSMISSION VIA MICROWAVE TO THE LCC.

ALL CAMERA POSITIONS ARE TO BE SITE SURVEYED. AZIMUTH AND ELEVATION OF CAMERA MOUNT WILL BE PROVIDED, (REF LLS3100, ITEM HT50EK, DBR 010634) AS WELL AS TIMING, (REF LLS3100, ITEM TH1.1EKXZ, DBR 227597). THE AZ/EL AND TIMING DATA SHOULD BE UPDATED FOR EACH FRAME. FIXED CAMERA FOCAL LENGTH REQUIRED.

PRIME REQUESTER: JSC/SN3/GREGORY BYRNE/281 483-0500

TECHNICAL CONTACT: JSC/SN3/GREGORY BYRNE/281 483-0500
KSC/NE-M7/TOM FORD/321 861-3635

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	SATELLITE TRANSMISSION	1 PLAYBACK	L+60 MIN (COMPLETE TRANSMISSION)	JSC/GT45/PATRICK CHIMES 281 483-2397
2	SUPER VHS		T+24 HRS	B-NS/HOU/HS4-40/

CONTINUED

[PRD] DATABASE RECORD: 532784
ITEM NUMBER: T30.1K

	VIDEO TAPE			GAIL HARGROVE/281 226-5575
3	SVHS OR DIGITAL BETACAM FORMAT VIDEO TAPE	1 TAPE	T+24 HRS	KSC/NE-M7/TOM FORD 321 861-3635
4	"	"	ON REQUEST ONLY	JSC/GT45/PATRICK CHIMES 281 483-2397 FOR CONVERSION TO 1/2" SUPER VHS AND/OR D2 FORMAT
5	D2 VIDEO TAPE	"	ON REQUEST ONLY	JSC/SN3/GREGORY BYRNE 281 483-0500

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/02/00
RESPONSE:
AZ AND ELEVATION CANNOT BE PROVIDED, TIMING AVAILABLE FOR SOUTH CAMERA, BUT NOT FROM NORTH CAMERA.

RESPONSE TRACKING: Z10302 Z7911 Z7916

[PRD] DATABASE RECORD: 10638
DOCUMENT ID: LLS
ITEM NUMBER: H31EK
SECTION: 2800

REQUIREMENT STATUS: APPROVED
APPROVAL DATE: 05/01/92
INITIAL DATE: 03/02/88
DATE LAST CHANGED: 01/18/07
TIME LAST CHANGED: 13:52:15

REQUESTER: MSFC
SUBREQUESTER: STSR21
TEST CODE: STSALL TVPLAN

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. KING2001 L204-10 R109-44 R26137 R2629

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 10638
ITEM NUMBER: H31EK

R2679 R5001
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: TIMING INFORMATION ON VIDEO

PROVIDE TIMING ON AUDIO TRACK NO. 2 OF EACH VIDEO TAPE RECORDED BY TV CAMERAS VIEWING THE SHUTTLE VEHICLE FROM START OF CRYOLOAD TO LOSS OF CAMERA SIGNAL DURING LAUNCH.

POINT OF CONTACT: MSFC/TD53/TOM RIECKHOFF/256-544-7677

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/15/92
RESPONSE TRACKING: Z2665 Z2807 Z5033

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C IT-D2 KICS-109
KICS-700

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/15/92
RESPONSE TRACKING: Z26134 Z2632 Z5001 Z5033

[PRD] DATABASE RECORD: 15731 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/03/88
INITIAL DATE: 05/03/88
ITEM NUMBER: TY45K DATE LAST CHANGED: 12/13/06
SECTION: 2800 TIME LAST CHANGED: 13:45:25

REQUESTER: JSC NASA HQ
SUBREQUESTER: I-PH-B JSC/CA4 KSC/MK-SIO OSR1
OSR3
TEST CODE: KSC STSALL TVPLAN

ASSOCIATED DOC: 20007S 20017S
TRACKING NO. KING2001 L03-1-1 R109-44 R26179 R26218
SCRUB06

CONTINUED

[PRD] DATABASE RECORD: 15731
ITEM NUMBER: TY45K

1. DESCRIPTION: CCTV MONITORS - LCC

PROVIDE CCTV COLOR MONITORS IN FR3 OSR BEHIND CONSOLE A6.
INPUT WILL BE WEATHER VISION DISPLAY. (CIRCUIT 6TVC2077)

PRIME REQUESTER: JSC/CA4/ROBERT HANLEY/281 244-8654

TECH CONTACT: KSC/CA4-A/LAUREN LUNDE/321 867-2005

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/03/88
RESPONSE: INFO ONLY: MONITOR 732 (FR1 OSR) 757 (FR3 OSR)

RESPONSE TRACKING: Z26135 Z2748

[PRD] DATABASE RECORD: 15892 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/11/96
INITIAL DATE: 04/25/90
ITEM NUMBER: H46K DATE LAST CHANGED: 01/19/07
SECTION: 2800 TIME LAST CHANGED: 10:09:58

REQUESTER: MSFC
SUBREQUESTER: MS159 MS244
TEST CODE: STSALL STSR56

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. KING2001 L2626 L3502 L4339 L5802
L6402 L7804 R109-44 SHAW94
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: VIDEO TAPE

MSFC REQUIRES A VIDEO TAPE FROM THE IR SCANNER TEMPERATURE PROBE
USED BY THE ICE-FROST TEAM.

CONTINUED

[PRD] DATABASE RECORD: 15892
ITEM NUMBER: H46K

TAPE SHOULD BE STANDARD 1/2 INCH VHS.

TECH CONTACT: KSC/NE-M7/TOM FORD/321 861-3635

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQUIRED	RECIPIENT/REMARKS
1	SEE SUPPORT RESPONSE	1	ON REQUEST	MARK HOOTEN/ED25 FAX NO: 256-544-0800 PHONE: 256-544-6498

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C NE-M7

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 08/15/96
RESPONSE:
DIAGRAM WITH TEMPERATURE NUMBERS IS BEING PROVIDED IN LIEU OF TAPES.

RESPONSE TRACKING: Z26118 Z28108 Z2932 Z3311 Z3510
Z3580 Z3637 Z4118 Z4365 Z4420
Z5720 Z5815 Z6402 Z7922

[PRD] DATABASE RECORD: 15910 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/20/99
INITIAL DATE: 07/06/88
ITEM NUMBER: T47EZ DATE LAST CHANGED: 10/25/06
SECTION: 2800 TIME LAST CHANGED: 10:09:58

REQUESTER: JSC
SUBREQUESTER: JSC/AP3 JSC/MO3
TEST CODE: STSALL TVPLAN WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. KING2001 L002-16 L06-10-1 L104-14 L210-1
L211-9 L4006 L4008 L504-1 L5303
L5331 L5412 L911-1 L9901 R0610-2
R109-44 R26231 R7005

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 15910
ITEM NUMBER: T47EZ

1. DESCRIPTION: SUPPORT AT WSMR FOR TELEVISION
OF SHUTTLE LANDING AT WSSH

VIDEO SOURCES WILL INCLUDE:

1. TWO MOBILE TRACKERS, EACH WITH ONE OR TWO COLOR CAMERAS, PROVIDED BY WSMR AND VIDEOTAPE RECORDING SUPPORT FOR TRACKERS WILL BE OBTAINED FROM WSMR. ALL CAMERAS WILL BE RECORDED WITH TIME CODE FOR DATA ANALYSIS.

2. WSTF WILL PROVIDE A CAMCORDER OR EQUIVALENT AND OPERATOR TO DOCUMENT LANDING, GENERAL ORBITER CONDITIONS, AND CREW EGRESS. CAMCORDER INTERNAL CLOCK WILL PROVIDE TIMING FOR DATA ANALYSIS.

NOTE: UNEDITED REPLAYS WILL BE DISTRIBUTED ON NASA SELECT THROUGH NGT.
TVRO EQUIPMENT WILL BE SUPPLIED BY WSSH TO DISTRIBUTE NASA SELECT.

DATA DISPOSITION: RETAIN FOR 90 DAYS AND DELIVER ON REQUEST TO:
JSC/AP3/D. DICKS/281 483-3326

TECHNICAL CONTACTS: JSC/MO3-USA/RAY BANKS/281 483-8233
WSTF/RC1/BOB MITCHELL/505 524-5774
WSMR/G. VICKERS/505 678-1541

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 12/20/99
RESPONSE:
WILCO FOR ITEM 1 AT NO COST UNLESS AN ORBITER LANDS AT WSSH.

RESPONSE TRACKING: Z26224 Z2757 Z4009 Z4013 Z5415
Z6929

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)

CONTINUED

[PRD] DATABASE RECORD: 15910
ITEM NUMBER: T47EZ

RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/20/99
RESPONSE TRACKING: Z5415 Z5521 Z5548 Z6904

[PRD] DATABASE RECORD: 15914 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/13/93
INITIAL DATE: 08/08/89
ITEM NUMBER: KT48Z DATE LAST CHANGED: 10/25/06
SECTION: 2800 TIME LAST CHANGED: 10:10:59

REQUESTER: KSC JSC
SUBREQUESTER: JSC/MO3 KSC/PH-L KSC/USK-426
TEST CODE: STSALL TVPLAN WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. COMREV05 DB98 KING2001 L002-16 L0610-1
L105-5 L111-14 L210-1 L4028 L5328
L5501 L908-7 R0610-2 R109-44 R26231
R3413 R4204
PRIORITY: REQUIRED
RATIONALE: BACKUP - NASA SELECT

1. DESCRIPTION: TELEVISION RECEIVE-ONLY EARTH STATIONS
RESPONSIBLE AGENCY: WSTF

WSTF SHALL PROVIDE A TVRO TO BE LOCATED NEAR THE WSSH TOWER FOR RECEPTION AND DISTRIBUTION OF NASA SELECT TELEVISION AT WSSH. DISTRIBUTION SHOULD ACCOMODATE THOSE BUILDINGS AROUND THE TOWER AREA.

WSTF SHALL ALSO PROVIDE A TVRO TO BE LOCATED NEAR WSMR BUILDING 122 FOR RECEPTION AND DISTRIBUTION OF NASA SELECT TELEVISION AT WSMR.

TECH CONTACT: JSC/MO3-USA/RAY BANKS/281 483-8233
KSC/PH-L/LOU GARCIA/321 861-6196
KSC/USK-426/MIKE KUTA/321 861-3890

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
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[PRD] DATABASE RECORD: 15914
ITEM NUMBER: KT48Z

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/13/93
RESPONSE TRACKING: Z26146 Z3407 Z4037 Z4208 Z5422

[PRD] DATABASE RECORD: 16020 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/19/06
INITIAL DATE: 02/18/91
ITEM NUMBER: HTY51K DATE LAST CHANGED: 11/20/06
SECTION: 2800 TIME LAST CHANGED: 10:28:51

REQUESTER: MSFC JSC NASA HQ
SUBREQUESTER: KICS-109 PH-B KSC/MK-SIO OMR3 OSR3
TEST CODE: KSC STSALL
TRACKING NO. KING2001 L2751 L3935 R109-44 R2908 R3903
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: OTV MONITORS - OMR/OSR

PROVIDE OTV MONITORS AS LISTED BELOW IN LCC1/3 OMR AND OSR:

MONITOR NO.	USER	TYPE	UNIT	LOCATION
307	MSFC/MK	7"	COL	OSR3 CONS A12
319	MSFC/MK	25"	COL	OSR3 CART
320	MK	25"	COL	OMR3 WALL
320A	MK	25"	COL	OMR3 CART
329	MSFC/MK	7"	COL	OSR3 CONS A16
330	MSFC/MK	7"	COL	OSR3 CONS A18
354	TE/MK	7"	COL	OSR3 CONS A14
383	IT/MK	NA		OMR3/OSR3
384	IT/MK	NA		OSR1/CONS A10
391	MSFC/MK	20"	COL	OSR3 CART NEXT TO WINDOW
701	PAO	9"	B/W	OMR3 CONS A19
702	PAO	9"	B/W	OMR3 CONS A19
703	PAO	9"	B/W	OMR3 CONS A20
704	PAO	9"	B/W	OMR3 CONS A20
757	JSC/MK	19"	COL	OSR3 TABLE

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 16020
ITEM NUMBER: HTY51K

POC: KSC/SK-SRB/PAT LAMPTON/321 867-9789

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/19/06
RESPONSE TRACKING: Z2905 Z2909 Z3979

[PRD] DATABASE RECORD: 16806 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/03/88
INITIAL DATE: 10/03/88
ITEM NUMBER: T53K DATE LAST CHANGED: 11/14/06
SECTION: 2800 TIME LAST CHANGED: 09:48:01

REQUESTER: JSC
SUBREQUESTER: I-PH-B JSC/CA4
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20007S 20017S
TRACKING NO. KING2001 L03-1-1 L104-14 L2604 L2718
R109-44 SCRUB06

1. DESCRIPTION: CCTV MONITORS - FLIGHT CREW QUARTERS

PROVIDE THE JSC WEATHER BRIEFING VIA 6TVC2050 (MCC TV DISPLAY) TO AN EXISTING MONITOR IN THE FLIGHT CREW QUARTERS LOCATED IN THE O&C BLDG. ROOM 3267. THIS CIRCUIT IS REQUIRED FOR THE L-17 HOUR AND THE L-4 HOUR WEATHER BRIEFING DURING TCDT, AND "SHUTTLE COUNTDOWN". AN EXISTING CLASS

"A" TELEPHONE WITH CAPABILITY WILL BE USED FOR VOICE COORDINATION WITH JSC.

REF: LLS2755, ITEM T13KT, DBR 313853.

PRIME REQUESTER: JSC/CA4/ROBERT HANLEY/281 244-8654

TECH CONTACT: KSC/CA4-A/LAUREN LUNDE/321 867-2005

CONTINUED

[PRD] DATABASE RECORD: 16806
ITEM NUMBER: T53K

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/03/88
RESPONSE: MONITORS 2033 AND 2034.

[PRD] DATABASE RECORD: 16807 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/03/88
INITIAL DATE: 10/03/88
ITEM NUMBER: H54K DATE LAST CHANGED: 01/18/07
SECTION: 2800 TIME LAST CHANGED: 13:53:08

REQUESTER: MSFC
TEST CODE: RETREV STSALL

ASSOCIATED DOC: 25407B
TRACKING NO. KING2001 L2718 R109-44
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: SRB RETRIEVAL VIDEO

PROVIDE A COPY TO MSFC UPON REQUEST OF TV
CASSETTES OF SRB RETRIEVAL ACTIVITIES TAKEN BY
THE TV CAMERAS ABOARD THE SRB RETRIEVAL VESSELS.

DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	TV MAG TAPE	1	ON REQUEST	MSFC/MP41/DAVID MARTIN 256 544-3549

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C I-PZ-F KICS-109
USBI-DAE

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/03/88

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 16807
ITEM NUMBER: H54K

[PRD] DATABASE RECORD: 16808 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/03/88
INITIAL DATE: 10/03/88
ITEM NUMBER: K55EK DATE LAST CHANGED: 11/21/06
SECTION: 2800 TIME LAST CHANGED: 09:42:00

REQUESTER: KSC
SUBREQUESTER: FR1/3 KSC/PH-L
TEST CODE: KSC LCC STSALL

ASSOCIATED DOC: 20007S 20028S
TRACKING NO. KING2001 L2718 MK98 R109-44 R2809
PRIORITY: REQUIRED
RATIONALE: VISIBILITY FOR CONTINGENCY ACTION.

1. DESCRIPTION: REALTIME VIDEO DISPLAY OF ER RADAR TRACK SUPPORT (T-1 HOUR)

DURING LAUNCH AND LANDING AT KSC, THE FOLLOWING SUPPORT IS REQUIRED: PROVIDE REALTIME VIDEO DISPLAY OF ER RADAR TRACK OF SPACE SHUTTLE ORBITER (SSO) TO TV MONITORS 023 AND 183 IN LCC1 AND LCC3. FLIGHT CONTROL DISPLAY SYSTEM (FCDS) TELEVISION (TV) TRANSMISSION IS REQUIRED FOR LAUNCH FROM T-1 HOUR TO NEGATIVE RETURN TO LAUNCH SITE (RTLS) (APPROXIMATELY T+5 MINUTES). RSDS LANDING DISPLAY IS REQUIRED FOR LANDING FROM L-75 MINUTES TO WEIGHT ON WHEELS (WOW).

POINT OF CONTACT: KSC/PH-L/LRD/321 861-9300

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/07/91
RESPONSE TRACKING: Z26133 Z2807 Z3216 Z3865 Z4450

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/22/90

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 16808
ITEM NUMBER: K55EK

RESPONSE:

REFERENCE	CIRCUIT NO.	FROM	TO	REMARKS
K1	1TVC400	ER HANGER AE	LCC RM 1P2	RSDS/ATWT

RESPONSE TRACKING: Z2766 Z3865

[PRD] DATABASE RECORD: 16814
DOCUMENT ID: LLS
ITEM NUMBER: TY57K
SECTION: 2800

REQUIREMENT STATUS: APPROVED
APPROVAL DATE: 11/21/88
INITIAL DATE: 11/21/88
DATE LAST CHANGED: 01/18/07
TIME LAST CHANGED: 13:54:41

REQUESTER: JSC NASA HQ
SUBREQUESTER: JSC/CA4 KSC/MK-SIO M
TEST CODE: KSC LCC OSR1 OSR3
STSALL
TRACKING NO. KING2001 L03-1-1 L104-14 L2718 L2755
R109-44

1. DESCRIPTION: LCC COMMUNICATION REQUIREMENTS:

PROVIDE VIDEO FOR OVERHEAD OTV MONITORS FOR
COMMERICAL AND GROUND OTV VIEWING IN THE OSR.

REFERENCE: LLS SECT 2700 T33K DBR 308216

PRIME REQUESTER: JSC/CA4/ROBERT HANLEY/281 244-8654

TECH CONTACT: KSC/CA4-A/LAUREN LUNDE/321 867-2005

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/21/88
RESPONSE: INFO ONLY:
OMR/OSR PATCH PANEL FOR

CONTINUED

[PRD] DATABASE RECORD: 16814
ITEM NUMBER: TY57K

MON 384 AND 359.

RESPONSE TRACKING: Z2766

[PRD] DATABASE RECORD:	19076	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	LLS	APPROVAL DATE:	10/26/05
		INITIAL DATE:	11/12/91
ITEM NUMBER:	TK63KTX	DATE LAST CHANGED:	03/20/07
SECTION:	2800	TIME LAST CHANGED:	13:43:36

REQUESTER:	JSC	KSC		
SUBREQUESTER:	JSC/MO3	JSC/MV	KSC/PH-L	KSC/USK-426
TEST CODE:	EAFB	KSC	STSALL	TVPLAN

ASSOCIATED DOC:	20026S	20028S			
TRACKING NO.	COMREV05	DB98	KING2001	L03-8-5	L04-8-1
	L06-10-1	L104-14	L105-5	L111-10	L208-5
	L408-2	L508-3	L601-2	L901-2	L907-9
	R0610-2	RTF114-9	SHAW94	SHAW95	
PRIORITY:	REQUIRED				
RATIONALE:	ALTERNATE SOURCES OF DATA AVAILABLE.				

1. DESCRIPTION: REALTIME VIDEO COVERAGE OF ORBITER SURFACES - POSTLANDING

JSC MISSION EVALUATION ROOM (MER) REQUESTS DFRC AND KSC PROVIDE REALTIME TV COVERAGE ON THE RUNWAY AFTER ROLL-OUT (ASAP) OF THE ORBITER APU VENTING, AND THERMAL/AERO SURFACES OR ANY OTHER ENGINEERING VIEW OF INTEREST. THE PROCEDURES FOR THIS TV COVERAGE WILL BE DOCUMENTED IN NSTS 08240, SECTION 12.0 FOR DFRC AND SECTION 9.0 FOR KSC. THE GOM/CONVOY COMMANDER WILL APPROVE ALL TV VEHICLE MOVEMENTS. IT MAY BE NECESSARY TO RESTRICT TV COVERAGE BASED ON MISSION OBJECTIVE/SAFETY REQUIREMENTS, IF SO, NOTIFY THE MER MGR. TRANSMISSION OF THE VIDEO/ AUDIO SIGNAL WILL BE PROVIDED VIA AMC-6 TRANSPONDER 5.

NOTE 1: COORDINATION IS REQUIRED BETWEEN THE JSC MER MANAGER AND THE TELEVISION WORKING GROUP (TVWG) TELEVISION OPERATIONS MANAGER AT THE LANDING SITE. PRIMARY COORD IS ON VIDEO OPS VOICE LOOP.

CONTINUED

[PRD] DATABASE RECORD: 19076
ITEM NUMBER: TK63KTX

NOTE 2: THE FOLLOWING VOICE LOOPS ARE REQUIRED FOR THE TVWG TELEVISION OPERATIONS MANAGER'S POSITION AT THE LANDING SITE:

A. VIDEO OPS
B. PAO CUE
C. FLT DIR
D. CONVOY CMDR NET
E. TV CONFERENCE

REFERENCE: LLS SECT 2750 FOR VOICE COMM DETAILS.

PRIME REQUESTER: JSC/MV/DAVID MOYER/281 483-0893
TECHNICAL CONTACT: JSC/MV/DAVID MOYER/281 483-0893
JSC/MO3-USA/RAY BANKS/281 483-8233
KSC/PH-L/DEAN SCHAAF/321 861-9311
KSC/USK-426/MIKE KUTA/321 861-3890

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 I-IT-D2-C KICS-109
USK-614

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/27/06
RESPONSE TRACKING: Z4048 Z4210 Z4719 Z7309 Z7502

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/286 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/26/05
RESPONSE:

RESPONSE TRACKING: Z2896 Z3477 Z4037 Z4453 Z4719
Z7210 Z9312 ZRTF114-4

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/26/06
RESPONSE TRACKING: Z3477 Z4020 Z4037 Z4460 Z4719

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 19076
ITEM NUMBER: TK63KTX

Z7503

[PRD] DATABASE RECORD: 19078 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/25/02
INITIAL DATE: 07/19/89
ITEM NUMBER: KT64.1KX DATE LAST CHANGED: 03/20/07
SECTION: 2800 TIME LAST CHANGED: 13:44:08

REQUESTER: KSC JSC
SUBREQUESTER: JSC/MV NE-M
TEST CODE: EAFB KSC STSALL TVPLAN

ASSOCIATED DOC: 20026S 20028S
TRACKING NO. DB98 KING2001 L104-14 L109-5 L209-8
L2822 L5212 L601-6 L607-4 L7506
L7911 L901-2 L907-10 L911-1 L9202
L9901 R109-44 R4406 R9310
PRIORITY: REQUIRED
RATIONALE: ALTERNATE SOURCES OF DATA AVAILABLE.

1. DESCRIPTION: VIDEO COMPOSITE TAPE OF ORBITER SURFACES - RUNWAY (END OF MISSION).

PROVIDE A COMPOSITE VIDEOTAPE OF ALL COLOR TV VIEWS OF THE ORBITER'S APU VENTING AND FUSELAGE SURFACES OR ANY OTHER ENGINEERING VIEWS OF INTEREST WHILE ON THE RUNWAY IMMEDIATELY AFTER ROLLOUT. THE CONVOY CAMERAS INCLUDE THE FOLLOWING:

TV-1 MOBILE AUDIO/VIDEO VAN
TV-2 MOBILE AUDIO/VIDEO VAN (INCLUDE WALK-AROUND CAMERAS)
TV-3 MOBILE AUDIO/VIDEO VAN (NOT INCLUDED IN CONVOY AT KSC)

TECHNICAL CONTACT: JSC/MV/KENNETH BROWN/281 483-3891

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ'D	RECIPIENT/REMARKS
K1	DIGITAL BETACAM	1	LANDING +4CD	KSC ANALYSIS TEAM

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 19078
ITEM NUMBER: KT64.1KX

OR SVHS FORMAT NE-M/KSC FL 32899
VIDEO TAPE

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 I-IT-D2-C KICS-109
USK-614

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/25/02
RESPONSE TRACKING: Z4418 Z5211 Z7607 Z7926 Z9312

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FI
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/25/02
RESPONSE TRACKING: Z3471 Z4404 Z5211 Z7701 Z8303
Z9312

[PRD] DATABASE RECORD: 19077 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/25/02
INITIAL DATE: 04/25/91
ITEM NUMBER: KT64.2X DATE LAST CHANGED: 03/20/07
SECTION: 2800 TIME LAST CHANGED: 13:44:40

REQUESTER: KSC JSC
SUBREQUESTER: JSC/MV KSC/IT-D2-C MER
TEST CODE: EAFB STSALL TVPLAN

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 L001-4 L002-12 L104-14
L109-5 L111-14 L2823 L3602 L3635
L4008 L601-6 L603-6 L7506 L806-1
L901-2 L907-11 L911-1 L9901 R109-44
R4204 R4406 R9310
PRIORITY: REQUIRED
RATIONALE: ALTERNATE SOURCES OF DATA AVAILABLE.

1. DESCRIPTION: VIDEOTAPE OF ORBITER SURFACES MATE-DEMATE-DEVICE
(MDD)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 19077
ITEM NUMBER: KT64.2X

PROVIDE A VIDEOTAPE OF ALL VIEWS OF THE ORBITER SURFACES TAKEN AT THE MDD AS SCHEDULED.

THIS ACTION WOULD BE REQUIRED BASED ON THE INITIAL TPS/DEBRIS ASSESSMENT ON THE RUNWAY. THE VIDEO SCAN IS A CONTINGENCY REQUIREMENT PERFORMED ON A NON-INTERFERENCE BASIS.

NOTE: THIS IS A CONTINGENCY REQUIREMENT. IMPLEMENTATION WILL BE COORDINATED VIA THE MISSION EVALUATION ROOM MANAGER, DAVID CAMP. REQUEST WILL BE COORDINATED WITH BOTH THE MER AND GOM.

PRIME REQUESTER: JSC/MV/KENNETH BROWN/281 483-3891

TECH CONTACT: JSC/MV/KENNETH BROWN/281 483-3891

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ'D	RECIPENT/REMARKS
T1	DIGITAL BETA CAM	1 EA	LANDING +4CD	KENNETH BROWN/JSC-M 281 483-3891
T2	DIGITAL BETA CAM	1	LANDING +4CD	CARLISLE CAMPBELL/ JSC-ES3/281 483-887
K3	S-VHS VIDEOTAPE	1	LANDING +4CD	KSC ANALYSIS TEAM NE-M KSC FL, 32899 321 861-3644
T4	DIGITAL BETA CAM	1	LANDING +4CD	GREGORY BYRNE JSC/SN3 281 483-0500

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/25/02

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 19077
ITEM NUMBER: KT64.2X

RESPONSE TRACKING: Z3640 Z4020 Z4208 Z4404 Z7701
Z7912

[PRD] DATABASE RECORD: 516748
DOCUMENT ID: LLS
ITEM NUMBER: G67K
SECTION: 2800

REQUIREMENT STATUS: APPROVED
APPROVAL DATE: 08/29/91
INITIAL DATE: 08/29/91
DATE LAST CHANGED: 01/18/07
TIME LAST CHANGED: 13:24:29

REQUESTER: GSFC
SUBREQUESTER: MILA
TEST CODE: STSALL

ASSOCIATED DOC: 20028S
TRACKING NO. KING2001 L4816 R109-44

1. DESCRIPTION: MIL TV SUPPORT

THE MILA TRACKING STATION REQUIRES THE VIEW FROM CAMERA 081 (VAB ROOFTOP CAMERA) DURING KSC LANDING OPERATIONS, AFTER NASA SELECT COMPLETES ITS LANDING COVERAGE AND UNTIL THE ORBITER IS IN THE OPF.

MILA CURRENTLY VIEWS NASA SELECT FOR THE LANDING, BUT AFTER IT GOES OFF THE AIR, MIL HAS NO VIEW OF THE ORBITER ON THE RUNWAY, AND AS IT IS BEING TOWED TO THE OPF.

REFERENCE: LLS2755 ITEM G77K DBR 516733

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/29/91
RESPONSE TRACKING: Z4820

[PRD] DATABASE RECORD: 518079
DOCUMENT ID: LLS
ITEM NUMBER: KT68EKX

REQUIREMENT STATUS: APPROVED
APPROVAL DATE: 10/02/00
INITIAL DATE: 12/19/91
DATE LAST CHANGED: 03/20/07

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 518079
ITEM NUMBER: KT68EKX

SECTION: 2800 TIME LAST CHANGED: 13:45:57

REQUESTER:	KSC	JSC			
SUBREQUESTER:	JSC/B-NS	JSC/KX	JSC/MO3	KSC/NE-M7	
TEST CODE:	EAFB	KSC	STSALL	TVPLAN	

ASSOCIATED DOC:	20026S	20028S			
TRACKING NO.	A106-1	ERLSR9416	KING2001	L04-2-1	L06-10-1
	L112-2	L201-6	L202-7	L203-20	L206-11
	L210-1	L305-6	L305-6A	L404-1	L4201
	L4501	L4913	L4917	L5026	L5303
	L5707	L5722	L601-6	L610-4	L6812
	L7913	L8008	L806-1	L911-1	L9202
	L9901	MK98	R0402-1	R0610-2	R109-44
	R6104	R6543			

PRIORITY: REQUIRED
RATIONALE: NO VISIBILITY ON NIGHT LANDING UNITL TOUCHDOWN.

1. DESCRIPTION: INFRARED CAMERA FOR LANDING-EOM ONLY (LANDING-1 HOUR)
(KSC-ALL) (EAFB-NIGHT ONLY)

PROVIDE INFRARED CAMERAS IN SUPPORT OF ALL LANDINGS AT EACH LANDING SITE. COVERAGE SHOULD COMMENCE AT ACQUISITION OF VEHICLE AND CONTINUE THROUGH THE ROLLOUT TO WHEEL-STOP. ADDITIONAL COVERAGE MAY BE REQUIRED TO SUPPORT POST-LANDING ENGINEERING VIDEO FOR THE MISSION OPERATIONS INTEGRATION ROOM. IRIG-B TIMING IS REQUIRED ON CHANNEL 2. A TAPE OF EACH VIEW SHOULD BE FIRST GENERATION FROM THE ORIGINAL. THE ORBITER SHOULD BE IN THE CENTER OF THE FRAME.

NOTE: IR IS USED FOR DEBRIS DETECTION DURING DAYLIGHT LANDING.

EDWARDS AIR FORCE BASE:
DRYDEN WILL PROVIDE IR CAMERA SUPPORT FOR NIGHT LANDINGS ONLY, TO INCLUDE COVERAGE OF LANDING SEQUENCE AND ROLLOUT FROM TWO POSITIONS
(1) ON-GROUND - RUNWAY LOCATION = TBD
(2) AIRBORNE - PHOTO TV HELICOPTER
(REF LLS3410, ITEM TX5DEX, DBR 520238)

NOTE 1: AT THE DIRECTION OF THE TELEVISION WORKING GROUP CHAIRMAN,

CONTINUED

[PRD] DATABASE RECORD: 518079
ITEM NUMBER: KT68EKX

AN ADDITIONAL IR CAMERA MAY BE OBTAINED FROM CHINA LAKE
TO COVER LANDING FROM A THIRD POSITION.
(FUNDS PROVIDED BY THE SHUTTLE PROGRAM OFFICE.)

NOTE 2: THIS REQUIREMENT MUST BE REVIEWED PRIOR TO EACH MISSION.

KENNEDY SPACE CENTER:
KSC WILL PROVIDE IR CAMERA SUPPORT TO INCLUDE COVERAGE OF LANDING SEQUENCE AND ROLLOUT FROM THREE POSITIONS:
(1) TV-20 LOCATED AT UCS-12. THIS CAMERA WILL BE PROVIDED BY JBOSC. (REF KPRD-I SECT 2800, ITEM K100K, DBR 013249)
(2) SLF MIDFIELD TRACKERS. THESE CAMERAS WILL BE PROVIDED BY KICS-700.
(3) IF BMDO/ISTEF ELECTS TO PARTICIPATE, THEY WILL SELECT THE THIRD CAMERA SITE AND PROVIDE THE CAMERA AND OPERATORS FOR THIS SITE. LOCAL RECORD ONLY COMPOSITE TAPE WILL BE PROVIDED PER DATA DISPOSITION.

PRIME REQUESTERS: JSC/MO3-USA/RAY BANKS (TVPLAN)/281 483-8233
JSC/KX/GREGORY BYRNE/281 483-0500

TECH CONTACTS: KSC/NE-M7/TOM FORD/321 861-3635
KSC/IT-D2-C/CHUCK BROWN/321 867-2090
ER/MIKE GAWEL/321 853-8118
BMDO/ISTEF/A. TIETJEN/321 853-5285

KSC LANDINGS DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	DIGITAL BETA CAM/SUPER VHS FORMAT VIDEO TAPE	1	L+24 HRS ON REQUEST ONLY	JSC/GT45/PATRICK CHIMES 281 483-2397
2	SUPER VHS FORMAT VIDEO TAPE	1	L+24 HRS ON REQUEST ONLY	B-NS/HOU/HS4-40/ GAIL HARGROVE/281 226-5575
3	DIGITAL BETA CAM OR SUPER VHS FORMAT	1	L+24 HRS	KSC/NE-M7/TOM FORD 321 861-3635

CONTINUED

[PRD] DATABASE RECORD: 518079
ITEM NUMBER: KT68EKX

VIDEO TAPE

DFRC LANDINGS DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	3/4" U-MATIC VIDEO TAPE	1	L+24 HRS ON REQUEST ONLY	JSC/GT45/PATRICK CHIMES 281 483-2397
2	3/4" U-MATIC VIDEO TAPE OR S-VHS	1	L+24 HRS ON REQUEST ONLY	B-NS/HOU/HS4-40/ GAIL HARGROVE/281 226-5575
3	S-VHS VIDEO TAPE	1	L+24 HRS	KSC/NE-M7/TOM FORD 321 861-3635

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 07/03/03
RESPONSE:
COVERAGE WILL TERMINATE AT WHEEL-STOP OR LOSS OF VISUAL.

RESPONSE TRACKING: Z4608 Z4945 Z5004 Z5307 Z5707
Z5727 Z6107 Z6308 Z6533 Z6810
Z7312 Z7704 Z7924 Z8017

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 I-IT-D2-C KICS-109
KICS-700 SGS-321 SGS-347

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/30/00
RESPONSE TRACKING: Z4920 Z5004 Z5307 Z5727 Z6107
Z6533 Z6810 Z7603 Z7607 Z7917
Z8107

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FI
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 12/07/00

CONTINUED

[PRD] DATABASE RECORD: 518079
ITEM NUMBER: KT68EKX

RESPONSE: ONLY PROVIDED FOR NIGHT LANDING

RESPONSE TRACKING: Z4608 Z5004 Z5307 Z5707 Z5727
Z6107 Z6533 Z6810 Z7701 Z8303

[PRD] DATABASE RECORD: 520578 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/17/94
INITIAL DATE: 08/06/92
ITEM NUMBER: D71EK DATE LAST CHANGED: 05/31/07
SECTION: 2800 TIME LAST CHANGED: 08:39:37

REQUESTER: HSFS
SUBREQUESTER: HSFS/X
TEST CODE: SPECIAL

ASSOCIATED DOC: MODE8
TRACKING NO. KING2001 L4601 L4703 R109-44 R6542
PRIORITY: REQUIRED
RATIONALE: REQUIRED TO PREPARE DoD FORCES FOR ASTRONAUT RESCUE AND RECOVERY.

1. DESCRIPTION: VIDEO SUPPORT - MODE VIII EXERCISE

UPON REQUEST FROM DDMS, PROVIDE THE FOLLOWING SUPPORT FOR MODE VIII EXERCISE.

A. TECHNICIANS FOR VIDEO SUPPORT PRIOR TO, DURING AND AFTER THE EXERCISE. LOCATION ASSIGNMENT BY HSFS-O.

1. MAY INCLUDE ON-SCENE VIDEO COVERAGE FROM AIRCRAFT, OCEAN-GOING VESSELS, SHIPS, BOATS AND/OR RAFTS.

2. TECHNICIANS CAN EXPECT TO REMAIN OVERNIGHT ABOARD VESSELS DEPENDING ON THE EXERCISE SCENARIO.

3. EXERCISE SUPERVISION OF THE TECHNICIANS WILL BE DELEGATED TO THE

SENIOR DOD REPRESENTATIVE EMBARKED ABOARD THEIR VESSEL.

B. PRODUCTION REQUIREMENTS

CONTINUED

[PRD] DATABASE RECORD: 520578
ITEM NUMBER: D71EK

1. FINISHED VIDEO ON HIGH QUALITY VHS FORMAT.

2. VIDEO PRODUCTION SERVICES REQUIRED MAY INCLUDE EDITING, VOICE/ MUSIC DUBBING AND ANIMATION.

TECH CONTACT: WILLIAM RAUCKHORST/USK-113/321 867-3134
(D)HSFS-0/321-494-5116
LRD/PH-L/321-867-9300

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/02/95
RESPONSE TRACKING: Z6534 Z7312

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/17/94
RESPONSE TRACKING: Z4615 Z4706 Z6534

[PRD] DATABASE RECORD: 521699 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/26/06
INITIAL DATE: 11/16/92
ITEM NUMBER: T72GKX DATE LAST CHANGED: 03/20/07
SECTION: 2800 TIME LAST CHANGED: 13:45:20

REQUESTER: JSC
SUBREQUESTER: I-PH-B JSC/MO3 MER
TEST CODE: EAFB KSC STSALL TVPLAN

ASSOCIATED DOC: 20026S 20028S
TRACKING NO. KING2001 L03-8-5 L04-8-1 L06-10-1 L211-5
L403-3 L410-2 L410-2A L5321 L5903
L5907 L6203 L6605 L8409 L906-4
L911-1 L9303 L9901 R0610-2 R109-44
R6305 RTF114-9

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 521699
ITEM NUMBER: T72GKX

1. DESCRIPTION: PRE-LANDING TELEVISION COVERAGE OF WEATHER CONDITIONS

PROVIDE TELEVISION COVERAGE FROM AT LEAST ONE CAMERA OF THE VISIBLE WEATHER CONDITIONS AT THE LANDING SITE AT 3 HOURS PRIOR TO LANDING. AT 2 HOURS PRIOR TO LANDING, PROVIDE FOR ADDITIONAL TELEVISION COVERAGE FROM THE RUNWAY AREA. THESE VIEWS WILL SERVE AS AN ADVISORY SOURCE OF WEATHER INFORMATION FOR THE FLIGHT CONTROL TEAM TO EVALUATE PRIOR TO COMMITTING TO A SHUTTLE DE-ORBIT BURN. ALL TELEVISION SUPPORT OF VISIBLE WEATHER CONDITIONS ARE TERMINATED AT FIRST ACQUISITION OF THE SHUTTLE.

JSC RELEASES SUPPORT PRIOR TO MER COVERAGE AT LANDING.

KSC LANDINGS:

1. THE HUD (HEADS UP DISPLAY)CAMERA VIEW WILL BE ROUTED FROM MILA TO JYVO FOR MUXING WITH THE WEATHER CAMERA FEED THROUGH THE "COLORADO" MUX UNIT FOR TRANSMISSION ON AMC-6 TRANSPONDER 6, TWO HOURS PRIOR TO TOUCHDOWN.

2. THE HUD CAMERA VIEW WILL BE REQUIRED FULLTIME ON AMC-6 TRANSPONDER 5 FROM T-2 HOURS UNTIL TOUCHDOWN AT WHICH TIME THE TRANSPONDER PROGRAMMING OF AMC-6 TRANSPONDER 5 WILL REVERT BACK TO THE JSC MER.

3. PRIOR TO T-2 HOURS JSC WILL NOTIFY GYCC/JYVO IF THEY DESIRE A WEATHER CAMERA VIEW. THIS WILL BE PROVIDED ON AND "AVAILABLE" BASIS.

4. FROM T-2 HOURS O TOUCHDOWN IF JSC REQUESTS AN "ADDITIONAL" WEATHER CAMERA VIEW THEY WILL CALL JYVO TO CHANGE THE MUX INPUT FROM THE HUD CAMERA TO THE WEATHER VIEW.

5. JSC WILL HAVE PRIORITY OVER THE HUD CAMERA INPUT TO THE COLORADO MUX FROM T-2 HOURS TO TOUCHDOWN.

EAFB LANDINGS:

CONTINUED

[PRD] DATABASE RECORD: 521699
ITEM NUMBER: T72GKX

TV WILL BE ROUTED VIA NASA HQ VIA AMC-6. NASA HQ WILL UTILIZED TRANSPONDER 17C AS PART OF THE "NASA SELECT" PROGRAM. DFRC WILL PROVIDE A CAMERA FOR WEATHER VIEWS BEGINNING AT LANDING -3 HOURS. THIS SIGNAL WILL BE TRANSMITTED TO JSC VIA THE CENTER-TO-CENTER

ENCODER. THE HUD CAMERA WILL BE TRANSMITTED TO JSC VIA AMC-6 TRANSPONDER 5 FROM AOS TO WHEELSTOP. FOLLOWING WHEELSTOP, AMC-6, TRANSPONDER 5 WILL BE USED FOR THE MER INSPECTION. A SUPPORTING FEED FROM JSC WILL BE TRANSMITTED TO DFRC VIA THE CENTER-TO-CENTER ENCODER.

REFERENCES: FLS 2800 ITEM T11KX DBR 521695
LLS 2755 ITEM T85K DBR 522940

TECH CONTACTS: JSC/ROLAND NITTA/281 280-2590
KSC/XA-E/WILLIAM JOHNSON/321 867-7819

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 11/16/06
RESPONSE:
USE OF THE TWO-TRANSPONDER SERVICES MUST BE SCHEDULED.

RESPONSE TRACKING: Z9322 ZRTF114-6

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109 XA-E1

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 10/27/06
RESPONSE:
PRIOR TO LANDING MINUS 2 HOURS, KSC TEST TEAM APPROVAL WILL BE REQUIRED FOR ANY PAD CAMERA ACTIVITY.

RESPONSE TRACKING: Z5411 Z5902 Z5923 Z6203 Z6604
Z6714 Z7207 Z8421 Z9321 Z9401
Z9403 Z9406

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 521699
ITEM NUMBER: T72GKX

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FI
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 11/27/06
RESPONSE:
DRYDEN WILL PROVIDE COVERAGE ONLY IF DESIGNATED AS
EOM SITE. ALL OTHER COVERAGE IS BEST EFFORT.

RESPONSE TRACKING: Z5318 Z6203 Z6519 Z6604 Z8421
Z9322

[PRD] DATABASE RECORD: 522902 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/26/06
INITIAL DATE: 04/13/93
ITEM NUMBER: T74KT DATE LAST CHANGED: 11/15/06
SECTION: 2800 TIME LAST CHANGED: 09:30:56

REQUESTER: JSC
SUBREQUESTER: I-PH-B JSC/MO3 JSC/WS8
TEST CODE: LCC STSALL TVPLAN

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 L06-10-1 L304-3 L5549 R0610-2
R109-44 SCRUB06

1. DESCRIPTION: PRELAUNCH WEATHER BRIEFINGS, TV CIRCUIT CONFIG.

HOUSTON TV WILL CONFIGURE TELEVISION CIRCUIT FOR PRELAUNCH WEATHER BRIEFINGS FROM JSC TO KSC FIFTEEN MINUTES PRIOR TO SCHEDULED START OF MEETING. JOHNSON TV WILL ROUTE THE SIGNAL FROM THE SMG TO HQ VIA NASA TV ENCODER. HQ WILL ROUTE THE SMG SIGNAL TO AMC-6, 17C CHANNEL 104. KSC TV WILL RECEIVE CHANNEL 104 AND ROUTE AS NECESSARY. THE VIDEO SOURCE IS JSC SMG. HOUSTON TV WILL CONFIRM THE SIGNAL IS RECEIVED AT THE DESIGNATED BRIEFING POINT. HOUSTON TV WILL NOTIFY JSC SMG OF CONFIRMATION. VIDEO WILL BE ROUTED TO JSC MISSION MANAGEMENT TEAM (MMT), BLDG. 1, ROOM 602 FOR THE MMT BRIEFINGS AND THE TANKING BRIEFING. VIDEO WILL BE ROUTED TO JSC BLDG. 30, ROOM 225 (ACTION CENTER) FOR TANKING.

CONTINUED

[PRD] DATABASE RECORD: 522902
ITEM NUMBER: T74KT

THE FOLLOWING FIVE (5) WEATHER BRIEFINGS WILL BE SCHEDULED PRIOR TO EACH MISSION:

1) L-2 DAYS - MMT WEATHER BRIEFING TO KSC OSB II, MISSION BRIEFING ROOM AND JSC BLDG. 1, ROOM 602
2) L-1 DAY - MMT WEATHER BRIEFING TO KSC OSB II, MISSION BRIEFING ROOM AND JSC BLDG. 1, ROOM 602
3) L-1 DAY - CREW WEATHER BRIEFING TO CREW QUARTERS
4) L-9 HOURS - MMT TANKING WEATHER BRIEFING TO LCC ROOM 4R23A OR TO THE OSB II MISSION BRIEFING ROOM, JSC BLDG. 1, ROOM 602, AND JSC BUILDING 30, ROOM 225
5) L-3 HOURS AND 55 MINUTES - CREW WEATHER BRIEFING TO CREW QUARTERS (SATELLITE TURNOVER BY PAO)

NOTE 1: DEPUTY PROGRAM MANAGER WILL DETERMINE EXACT TIME AND PLACE FOR THE BRIEFINGS APPROXIMATELY 2 WEEKS PRIOR TO LAUNCH.

NOTE 2: JSC WILL REFER TO THEIR TERMINAL COUNT DOCUMENT FOR DETAILED TIME SCHEDULE OF WEATHER BRIEFINGS.

NOTE 3: L-1 - MMT BRIEFING AND TANKING BRIEFING MAY BE COMBINED FOR NIGHT LAUNCHES.

TECHNICAL CONTACT: GROUND CONTROL (GC) MANAGER/281 483-6879

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/27/06
RESPONSE TRACKING: Z5721

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/286 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/26/06
RESPONSE TRACKING: Z5559

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 529997 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/20/99
INITIAL DATE: 04/29/95
ITEM NUMBER: T75KX DATE LAST CHANGED: 03/20/07
SECTION: 2800 TIME LAST CHANGED: 13:47:25

REQUESTER: JSC
SUBREQUESTER: JSC/AP3
TEST CODE: EAFB KSC STSALL

ASSOCIATED DOC: 20028S
TRACKING NO. KING2001 L504-1 L911-1 L9901 R7005

1. DESCRIPTION: POSTLANDING VIDEO OF CREW EGRESS - EAFB & KSC

JSC/PAO REQUIRES TV COVERAGE OF CREW EGRESS FROM BEST CAMERA VIEW.

PRIME REQUESTER: JSC/AP131/EILEEN HAWLEY/281 483-8546

TECHNICAL CONTACT: JSC/AP42/IMPA3/MICHAEL GENTRY/281 483-8602
KSC/XA-E1/WILLIAM JOHNSON/321 867-7819

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	BETA SP	1	ASAP	JSC/RAY BANKS/USH 700E

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/20/99
RESPONSE TRACKING: Z7010

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/20/99
RESPONSE TRACKING: Z6926

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD:	531483	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	LLS	APPROVAL DATE:	02/25/02
		INITIAL DATE:	05/09/96
ITEM NUMBER:	KT76K	DATE LAST CHANGED:	01/18/07
SECTION:	2800	TIME LAST CHANGED:	13:56:44

REQUESTER:	KSC	JSC
SUBREQUESTER:	JSC/KX	KSC/NE-M7
TEST CODE:	KSC	STSALL

ASSOCIATED DOC:	20028S				
TRACKING NO.	A106-1	KING2001	L04-2-1	L511-1	L711-2
	L7705	L806-1	L8708	L911-1	L9202
	L9901	R0402-1	R109-44	R7201	

1. DESCRIPTION: LANDING VIDEO COVERAGE - END-OF-RUNWAY (KSC)

END-OF-RUNWAY VIDEO VIEWS ARE REQUIRED FOR MONITORING DRAG CHUTE PERFORMANCE, LANDING SINK RATE, LANDING GEAR STRUT COMPRESSION, ORBITER DRIFT AT TOUCHDOWN, CONTROL SURFACE DEFLECTIONS AND CONTINGENCY ASSESSMENT.

TRANSMIT A REPLAY OF LANDING TV VIDEO COVERAGE OF THE END OF RUNWAY TV CAMERA VIEWS (SLF SOUTH AND SLF NORTH). IRIG-B TIMING IS REQUIRED ON AUDIO CHANNEL #2. DURATION OF EACH TV VIEW WILL BE 20 SECONDS PRIOR TO LANDING TOUCHDOWN TO WHEELS STOP.

ALSO PROVIDE, ON REQUEST, A COMPOSITE VIDEO TAPE (DIGITAL BETACAM OR SUPER VHS FORMAT) OF THE END OF RUNWAY COLOR TV VIEWS. THE COMPOSITE TAPE SHOULD BE A FIRST GENERATION FROM THE ORIGINALS.

NOTE 1: FIELD OF VIEW WILL BE AT BOTH ENDS OF RUNWAY LOOKING DOWN THE CENTERLINE. CAMERAS SHOULD BE LEVELED AND LOCATED AS CLOSE TO CENTERLINE AS POSSIBLE TO VIEW BOTH FWD AND AFT END OF ORBITER.

PRIME REQUESTER: JSC/SN3/GREGORY BYRNE/281 483-0500

TECHNICAL CONTACT: JSC/SN3/GREGORY BYRNE/281 483-0500
KSC/NE-M7/TOM FORD/321 861-3635

DATA DISPOSITION:

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 531483
ITEM NUMBER: KT76K

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	SATELLITE TRANSMISSION	1 PLAY-BACK	L+60 MIN (COMPLETE TRANSMSN.)	JSC/GT45/PATRICK CHIMES/ 281 483-2397
2	"	"	"	B-NS/HOU/HS4-40/ GAIL HARGROVE/281 226-5575
3	DIGITAL BETACAM OR SVHS FORMAT VIDEO TAPE	1 TAPE	T+24 HRS	KSC/NE-M7/TOM FORD/ 321 861-3635
4	"	"	ON REQUEST	JSC/GT45/PATRICK CHIMES/ 281 483-2397 FOR CONVERSION TO 1/2" SUPER VHS AND/OR D2 FORMAT
5	SUPER VHS VIDEO TAPE	"	ON REQUEST	B-RSS/HOU/HS4-40/ GAIL HARGROVE/281 226-5575
6	D2 VIDEO TAPE	"	ON REQUEST	JSC/SN5/GREGORY BYRNE/ 281 483-0500

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/25/02
RESPONSE TRACKING: Z10302 Z8113 Z8721

[PRD] DATABASE RECORD: 580685 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/08/05
INITIAL DATE: 03/08/05
ITEM NUMBER: KTY99EG DATE LAST CHANGED: 01/16/07
SECTION: 2800 TIME LAST CHANGED: 10:38:33

REQUESTER: KSC JSC NASA HQ
SUBREQUESTER: JSC/MT
TEST CODE: LAUNCH PREFLT STSALL TVPLAN

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 580685
ITEM NUMBER: KTY99EG

ASSOCIATED DOC: 20007S
TRACKING NO. L06-11-1 R0504-7

1. DESCRIPTION: ET TV VIDEO CAMERA REQUIREMENT (MILA/PDL/JDMTA/ WLPS)

MILA, JDMTA, AND WLPS ARE REQUIRED TO RECEIVE, RECORD AND TRANSMIT S-BAND EXTERNAL TANK (ET) ANALOG CAMERA VIDEO REALTIME TO KSC. PDL IS REQUIRED TO RECEIVE AND RECORD ET VIDEO. RECORDINGS WILL BE IN ANALOG AND DIGITAL FORMAT. ANALOG RECORDING WILL BE FOR ENGINEERING PURPOSES ONLY. SPECIFIC INSTRUCTION HOW TO HANDLE ANALOG AND DIGITAL RECORDINGS ARE SPECIFIED IN SECTION 2700 OF THE LLS. JDMTA AND WLPS WILL REQUIRE PORTABLE EARTH STATIONS AND COMMERCIAL SATELLITE TRANSPONDER SUPPORT FOR REALTIME TRANSMISSION OF ANALOG VIDEO. MILA WILL USE EXISTING INTERFACES. PLAYBACKS IF REQUESTED FROM JDMTA AND WLPS WILL BE ACCOMPLISHED PRIOR TO RELEASE OF THE PORTABLE EARTH STATIONS/SATELLITE TRANSPONDER SUPPORT.

POC: JSC/MS2/CHRISTINE BOYKIN/281 483-1251
JSC/M03-USA/RAY BANKS/281 483-8233

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/14/05

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA WLPS
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/08/05

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 580760 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/26/06
INITIAL DATE: 03/09/05
ITEM NUMBER: KTY100K DATE LAST CHANGED: 11/07/06
SECTION: 2800 TIME LAST CHANGED: 08:11:18

REQUESTER: KSC JSC NASA HQ
SUBREQUESTER: JSC/MO3
TEST CODE: LAUNCH PREFLT STSALL TVPLAN

ASSOCIATED DOC: 20007S
TRACKING NO. L06-10-1 L06-11-1 R0504-7 R0610-2

1. DESCRIPTION: ET TV VIDEO

RESPONSIBLE AGENCY: KSC

KSC TV WILL DISTRIBUTE THE SWITCHED ANALOG ET TV IN REAL TIME TO JSC, MSFC, AND GSFC.

POC: JSC/MS2/CHRISTINE BOYKIN/281 483-1251
JSC/M03-USA/RAY BANKS/281 483-8233

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-109
RESPONDER: JAMES (MIKE) WILLIAMSON/321 867-4123
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/27/06

[PRD] DATABASE RECORD: 580768 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/09/05
INITIAL DATE: 03/09/05
ITEM NUMBER: KTY101EG DATE LAST CHANGED: 01/16/07
SECTION: 2800 TIME LAST CHANGED: 10:39:04

REQUESTER: KSC JSC NASA HQ
SUBREQUESTER: JSC/MT
TEST CODE: LAUNCH PREFLT STSALL TVPLAN

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 580768
ITEM NUMBER: KTY101EG

ASSOCIATED DOC: 20007S
TRACKING NO. L06-11-1 R0504-7
PRIORITY: REQUIRED
RATIONALE: RETURN TO FLIGHT ELVIS SYSTEM REQUIREMENT
NSTS 37389, FEBRUARY 2004.

1. DESCRIPTION: ET TV ANALOG RECORDING AND DISPOSITION

RESPONSIBLE AGENCY: GSFC & ER

WALLOPS/JDMTA/MILA/PDL ARE REQUIRED TO RECORD THE ANALOG VIDEO FROM THE ET TV VIDEO CAMERA UTILIZING THE S-VHS RECORDING EQUIPMENT AND HOLD UNTIL THE END OF MISSION AND THEN SHIP TO GSFC FOR COMPARATIVE ANALYSIS. JDMTA WILL RECORD UTILIZING THE GSFC PROVIDED EQUIPMENT. GSFC SHIPPING ADDRESS IS AS FOLLOWS:

HONEYWELL TECHNOLOGY SOLUTIONS, INC.
GODDARD CORPORATE PARK
7515 MISSION DRIVE
LANHAM, MARYLAND 20706
ATTN: JAMES FERNHOLZ
TELEPHONE: 301 805-3860

POC: JSC/MS2/CHRISTINE BOYKIN/281 483-1251
JSC/M03-USA/RAY BANKS/281 483-8233

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 06/14/05
RESPONSE: THE NASA PORTABLE ESTA MUST ARRIVE AT JDMTA
AT OR BEFORE 0800 L ON L-1 TO CHECK OUT INTERCONNECTIONS BETWEEN THE
PORTABLE EQUIPMENT AND RESOLVE ANY UNFORESEEN ISSUES AND LESSEN ANY
POTENTIAL INTERFERENCE WITH ER INSTRUMENTATION SETUP REQUIREMENTS
AT JDMTA. THE ER SITE PERSONNEL RETAIN THE AUTHORITY TO DIRECT

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 580768
ITEM NUMBER: KTY101EG

THE ESTA TO STOP RADIATING IF AT ANY TIME DURING THE MISSION THE ESTA INTERFERES WITH ER RANGE SAFETY RADAR TRACKING, TELEMETRY RECEPTION, OR COMMAND DESTRUCT SYSTEMS.

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/09/05

[PRD] DATABASE RECORD: 581557 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/07/05
INITIAL DATE: 04/07/05
ITEM NUMBER: THK102K DATE LAST CHANGED: 01/18/07
SECTION: 2800 TIME LAST CHANGED: 13:30:43

REQUESTER:	JSC	MSFC	KSC	
SUBREQUESTER:	JSC/MS2	JSC/SX	KSC/MK-SIO	KSC/NE-M7
	MSFC/TD53			
TEST CODE:	LAUNCH	PREFLT	STSALL	TVPLAN

ASSOCIATED DOC: 20007S
TRACKING NO. R0504-6

1. DESCRIPTION: OTH-009 HDTV 720P60

UPGRADE THE CAMERA AT LOCATION ASSIGNED TO OTV-009 (FSS 115' LEVEL) WITH AN HDTV CAMERA OPERATING AT A TRUE 60 FPS. FEED OF HD-SDI TO THE CICE CONSOLE IN LCC FR2.

RECORDING OF HD-SDI UTILIZING WAVELET COMPRESSION PER INTERCENTER PHOTO WORKING GROUP DIRECTION. IRIG-B TIMING TO BE PLACED IN THE HEADER (ANCILLARY DATA) AREA OF EACH FRAME. NOMINAL RECORDING FOR LAUNCH SUPPORT IS T-1 MINUTE THROUGH T+30 SECONDS. OFF-NOMINAL RECORDING PER CICE DIRECTION.

DOWN-CONVERT TO COMPOSITE ANALOG NTSC VIDEO AT 29.97 FPS FOR INPUT INTO LCC OTV DISTRIBUTION SYSTEM AS OTV-009. OTHER NTSC RECORDING REQUIREMENTS MAY APPLY. INITIAL SET-UP OF DOWN-CONVERT DISTRIBUTION

CONTINUED

[PRD] DATABASE RECORD: 581557
ITEM NUMBER: THK102K

WILL BE IN "CROP" MODE. CAPABILTIY TO TRANSITION TO "LETTERBOX" MODE WILL BE MAINTAINED. PH CHIEF ENGINEER TO DETERMINE FORMAT OF DOWN-CONVERT AS EITHER LETTERBOX OR CROPPED.

PRVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

REF: DBR 10353 VIDEO COMPOSITE TAPE (LAUNCH)
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 10638 TIMING INFORMATION ON VIDEO
REF: DBR 14648 FIRST ENGINEERING VIDEO REPLAY VIA SATELLITE (LAUNCH)

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPWG CHAIR)/321 867-8516

TECH CONTACTS: MSFC/TD53/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/SX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

NEED DATE: FIRST LAUNCH FROM PAD A FOLLOWING RTF.

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQUIRED	RECIPIENT/REMARKS
1	DIGITAL FILE	1	1 HR	KSC INTEGRATED IMAGERY SYSTEM (KIIS) MIRRORED SERVER (MS) FOR DISTRIBUTION TO THE IMAGE ANALYSIS FACILITIES.
OR				
2	DIGITAL FILE	1	1 HR	MSFC/TD53/TOM RIECKHOFF 256 544-7677
3	DIGITAL FILE	1	1 HR	JSC/SX/JON DISLER/ 281 483-5182
4	DIGITAL FILE	1	1 HR	KSC/NE-M7/TOM FORD/ 321 861-3635

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 581557
ITEM NUMBER: THK102K

SUBSUPPLIER: KICS-109
RESPONDER: JAMES (MIKE) WILLIAMSON/321 867-4123
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/08/05

[PRD] DATABASE RECORD: 581558 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/07/05
INITIAL DATE: 04/07/05
ITEM NUMBER: THK103K DATE LAST CHANGED: 01/18/07
SECTION: 2800 TIME LAST CHANGED: 13:31:15

REQUESTER:	JSC	MSFC	KSC	
SUBREQUESTER:	JSC/MS2	JSC/SX	KSC/MK-SIO	KSC/NE-M7
	MSFC/TD53			
TEST CODE:	LAUNCH	PREFLT	STSALL	TVPLAN

ASSOCIATED DOC: 20007S
TRACKING NO. R0504-6

1. DESCRIPTION: OTH-054 HDTV 720P60

UPGRADE THE CAMERA AT LOCATION ASSIGNED TO OTV-054 (MLP SIDE 4 "0" LEVEL) WITH AN HDTV CAMERA OPERATING AT A TRUE 60 FPS. FEED OF HD-SDI TO THE CICE CONSOLE IN LCC FR2.

RECORDING OF HD-SDI UTILIZING WAVELET COMPRESSION PER INTERCENTER PHOTO WORKING GROUP DIRECTION. IRIG-B TIMING TO BE PLACED IN THE HEADER (ANCILLARY DATA) AREA OF EACH FRAME. NOMINAL RECORDING FOR LAUNCH SUPPORT IS T-1 MINUTE THROUGH T+30 SECONDS. OFF-NOMINAL RECORDING PER CICE DIRECTION.

DOWN-CONVERT TO COMPOSITE ANALOG NTSC VIDEO AT 29.97 FPS FOR INPUT INTO LCC OTV DISTRIBUTION SYSTEM AS OTV-054. OTHER NTSC RECORDING REQUIREMENTS MAY APPLY. INITIAL SET-UP OF DOWN-CONVERT DISTRIBUTION WILL BE IN "CROP" MODE. CAPABILTIY TO TRANSITION TO "LETTERBOX" MODE WILL BE MAINTAINED. PH CHIEF ENGINEER TO DETERMINE FORMAT OF DOWN-CONVERT AS EITHER LETTERBOX OR CROPPED.

CONTINUED

[PRD] DATABASE RECORD: 581558
ITEM NUMBER: THK103K

PRVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

REF: DBR 10353 VIDEO COMPOSITE TAPE (LAUNCH)
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 10638 TIMING INFORMATION ON VIDEO
REF: DBR 14648 FIRST ENGINEERING VIDEO REPLAY VIA SATELLITE (LAUNCH)

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPWG CHAIR)/321 867-8516

TECH CONTACTS: MSFC/TD53/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/SX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

NEED DATE: FIRST LAUNCH FROM PAD A FOLLOWING RTF.

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQUIRED	RECIPIENT/REMARKS
1	DIGITAL FILE	1	1 HR	KSC INTEGRATED IMAGERY SYSTEM (KIIS) MIRRORED SERVER (MS) FOR DISTRIBUTION TO THE IMAGE ANALYSIS FACILITIES.
OR				
2	DIGITAL FILE	1	1 HR	MSFC/TD53/TOM RIECKHOFF 256 544-7677
3	DIGITAL FILE	1	1 HR	JSC/SX/JON DISLER/ 281 483-5182
4	DIGITAL FILE	1	1 HR	KSC/NE-M7/TOM FORD 321 861-3635

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)

SUBSUPPLIER: KICS-109
RESPONDER: JAMES (MIKE) WILLIAMSON/321 867-4123
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/08/05

CONTINUED

[PRD] DATABASE RECORD: 581558
ITEM NUMBER: THK103K

[PRD] DATABASE RECORD: 581559
DOCUMENT ID: LLS
ITEM NUMBER: THK104K
SECTION: 2800

REQUIREMENT STATUS: APPROVED
APPROVAL DATE: 04/07/05
INITIAL DATE: 04/07/05
DATE LAST CHANGED: 01/18/07
TIME LAST CHANGED: 13:31:39

REQUESTER:	JSC	MSFC	KSC	
SUBREQUESTER:	JSC/MS2 MSFC/TD53	JSC/SX	KSC/MK-SIO	KSC/NE-M7
TEST CODE:	LAUNCH	PREFLT	STSALL	TVPLAN

ASSOCIATED DOC: 20007S
TRACKING NO. R0504-6

1. DESCRIPTION: OTH-063 HDTV 720P60

UPGRADE THE CAMERA AT LOCATION ASSIGNED TO OTV-063 (FSS 155 FT LEVEL) WITH AN HDTV CAMERA OPERATING AT A TRUE 60 FPS. FEED OF HD-SDI TO THE CICE CONSOLE IN LCC FR2.

RECORDING OF HD-SDI UTILIZING WAVELET COMPRESSION PER INTERCENTER PHOTO WORKING GROUP DIRECTION. IRIG-B TIMING TO BE PLACED IN THE HEADER (ANCILLARY DATA) AREA OF EACH FRAME. NOMINAL RECORDING FOR LAUNCH SUPPORT IS T-1 MINUTE THROUGH T+30 SECONDS. OFF-NOMINAL RECORDING PER CICE DIRECTION.

DOWN-CONVERT TO COMPOSITE ANALOG NTSC VIDEO AT 29.97 FPS FOR INPUT INTO LCC OTV DISTRIBUTION SYSTEM AS OTV-063. OTHER NTSC RECORDING REQUIREMENTS MAY APPLY. INITIAL SET-UP OF DOWN-CONVERT DISTRIBUTION WILL BE IN "CROP" MODE. CAPABILTIY TO TRANSITION TO "LETTERBOX" MODE WILL BE MAINTAINED. PH CHIEF ENGINEER TO DETERMINE FORMAT OF DOWN-CONVERT AS EITHER LETTERBOX OR CROPPED.

PRVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

REF: DBR 10353 VIDEO COMPOSITE TAPE (LAUNCH)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 581559
ITEM NUMBER: THK104K

REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 10638 TIMING INFORMATION ON VIDEO
REF: DBR 14648 FIRST ENGINEERING VIDEO REPLAY VIA SATELLITE (LAUNCH)

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPWG CHAIR)/321 867-8516

TECH CONTACTS: MSFC/TD53/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/SX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

NEED DATE: FIRST LAUNCH FROM PAD A FOLLOWING RTF.

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQUIRED	RECIPIENT/REMARKS
1	DIGITAL FILE	1	1 HR	KSC INTEGRATED IMAGERY SYSTEM (KIIS) MIRRORED SERVER (MS) FOR DISTRIBUTION TO THE IMAGE ANALYSIS FACILITIES.
OR				
2	DIGITAL FILE	1	1 HR	MSFC/TD53/TOM RIECKHOFF 256 544-7677
3	DIGITAL FILE	1	1 HR	JSC/SX/JON DISLER/ 281 483-5182
4	DIGITAL FILE	1	1 HR	KSC/NE-M7/TOM FORD/ 321 861-3635

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)

SUBSUPPLIER: KICS-109
RESPONDER: JAMES (MIKE) WILLIAMSON/321 867-4123
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/08/05

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD:	581560		REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	LLS		APPROVAL DATE:	04/07/05
			INITIAL DATE:	04/07/05
ITEM NUMBER:	THK105K		DATE LAST CHANGED:	01/18/07
SECTION:	2800		TIME LAST CHANGED:	13:32:10

REQUESTER:	JSC	MSFC	KSC	
SUBREQUESTER:	JSC/MS2	JSC/SX	KSC/MK-SIO	KSC/NE-M7
	MSFC/TD53			
TEST CODE:	LAUNCH	PREFLT	STSALL	TVPLAN

ASSOCIATED DOC: 20007S
TRACKING NO. R0504-6

1. DESCRIPTION: OTH-070 HDTV 720P60

UPGRADE THE CAMERA AT LOCATION ASSIGNED TO OTV-070 (SE FIELD) WITH AN HDTV CAMERA OPERATING AT A TRUE 60 FPS. FEED OF HD-SDI TO THE CICE CONSOLE IN LCC FR2.

RECORDING OF HD-SDI UTILIZING WAVELET COMPRESSION PER INTERCENTER PHOTO WORKING GROUP DIRECTION. IRIG-B TIMING TO BE PLACED IN THE HEADER (ANCILLARY DATA) AREA OF EACH FRAME. NOMINAL RECORDING FOR LAUNCH SUPPORT IS T-1 MINUTE THROUGH T+30 SECONDS. OFF-NOMINAL RECORDING PER CICE DIRECTION.

DOWN-CONVERT TO COMPOSITE ANALOG NTSC VIDEO AT 29.97 FPS FOR INPUT INTO LCC OTV DISTRIBUTION SYSTEM AS OTV-070. OTHER NTSC RECORDING REQUIREMENTS MAY APPLY. INITIAL SET-UP OF DOWN-CONVERT DISTRIBUTION WILL BE IN "CROP" MODE. CAPABILTIY TO TRANSITION TO "LETTERBOX" MODE WILL BE MAINTAINED. PH CHIEF ENGINEER TO DETERMINE FORMAT OF DOWN-CONVERT AS EITHER LETTERBOX OR CROPPED.

PRVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

REF: DBR 10353 VIDEO COMPOSITE TAPE (LAUNCH)
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 10638 TIMING INFORMATION ON VIDEO
REF: DBR 14648 FIRST ENGINEERING VIDEO REPLAY VIA SATELLITE (LAUNCH)
REF: DBR 534341 TELEVISION VIEW CAPABILITIES
REF: DBR 534343 TELEVISION VIEW CAPABILITIES

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[PRD] DATABASE RECORD: 581560
ITEM NUMBER: THK105K

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPWG CHAIR)/321 867-8516

TECH CONTACTS: MSFC/TD53/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/SX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

NEED DATE: FIRST LAUNCH FROM PAD A FOLLOWING RTF.

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQUIRED	RECIPIENT/REMARKS
1	DIGITAL FILE	1	1 HR	KSC INTEGRATED IMAGERY SYSTEM (KIIS) MIRRORED SERVER (MS) FOR DISTRIBUTION TO THE IMAGE ANALYSIS FACILITIES.
OR				
2	DIGITAL FILE	1	1 HR	MSFC/TD53/TOM RIECKHOFF 256 544-7677
3	DIGITAL FILE	1	1 HR	JSC/SX/JON DISLER/ 281 483-5182
4	DIGITAL FILE	1	1 HR	KSC/NE-M7/TOM FORD/ 321 861-3635

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)

SUBSUPPLIER: KICS-109
RESPONDER: JAMES (MIKE) WILLIAMSON/321 867-4123
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/08/05

[PRD] DATABASE RECORD: 581561
DOCUMENT ID: LLS
ITEM NUMBER: THK106K
SECTION: 2800

REQUIREMENT STATUS: APPROVED
APPROVAL DATE: 04/07/05
INITIAL DATE: 04/07/05
DATE LAST CHANGED: 01/18/07
TIME LAST CHANGED: 13:32:48

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 581561
ITEM NUMBER: THK106K

REQUESTER:	JSC		MSFC	KSC
SUBREQUESTER:	JSC/MS2	JSC/SX	KSC/MK-SIO	KSC/NE-M7
TEST CODE:	LAUNCH	PREFLT	STSALL	TVPLAN

ASSOCIATED DOC: 20007S
TRACKING NO. R0504-6

1. DESCRIPTION: OTH-071 HDTV 720P60

UPGRADE THE CAMERA AT LOCATION ASSIGNED TO OTV-071 (SW FIELD) WITH AN HDTV CAMERA OPERATING AT A TRUE 60 FPS. FEED OF HD-SDI TO THE CICE CONSOLE IN LCC FR2.

RECORDING OF HD-SDI UTILIZING WAVELET COMPRESSION PER INTERCENTER PHOTO WORKING GROUP DIRECTION. IRIG-B TIMING TO BE PLACED IN THE HEADER (ANCILLARY DATA) AREA OF EACH FRAME. NOMINAL RECORDING FOR LAUNCH SUPPORT IS T-1 MINUTE THROUGH T+30 SECONDS. OFF-NOMINAL RECORDING PER CICE DIRECTION.

DOWN-CONVERT TO COMPOSITE ANALOG NTSC VIDEO AT 29.97 FPS FOR INPUT INTO LCC OTV DISTRIBUTION SYSTEM AS OTV-071. OTHER NTSC RECORDING REQUIREMENTS MAY APPLY. INITIAL SET-UP OF DOWN-CONVERT DISTRIBUTION WILL BE IN "CROP" MODE. CAPABILTIY TO TRANSITION TO "LETTERBOX" MODE WILL BE MAINTAINED. PH CHIEF ENGINEER TO DETERMINE FORMAT OF DOWN-CONVERT AS EITHER LETTERBOX OR CHOPPED.

PRVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

REF: DBR 10353 VIDEO COMPOSITE TAPE (LAUNCH
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 10638 TIMING INFORMATION ON VIDEO
REF: DBR 14648 FIRST ENGINEERING VIDEO REPLAY VIA SATELLITE (LAUNCH)
REF: DBR 534341 TELEVISION VIEW CAPABILITIES

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPWG CHAIR)/321 867-8516

TECH CONTACTS: MSFC/TD53/TOM RIECKHOFF/256 544-7677

CONTINUED

[PRD] DATABASE RECORD: 581561
ITEM NUMBER: THK106K

KSC/NE-M7/TOM FORD/321 861-3635
JSC/SX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

NEED DATE: FIRST LAUNCH FROM PAD A FOLLOWING RTF.

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQUIRED	RECIPIENT/REMARKS
1	DIGITAL FILE	1	1 HR	KSC INTEGRATED IMAGERY SYSTEM (KIIS) MIRRORED SERVER (MS) FOR DISTRIBUTION TO THE IMAGE ANALYSIS FACILITY.
OR				
2	DIGITAL FILE	1	1 HR	MSFC/TD53/TOM RIECKHOFF 256 544-7677
3	DIGITAL FILE	1	1 HR	JSC/SX/JON DISLER/ 281 483-5182
4	DIGITAL FILE	1	1 HR	KSC/NE-M7/TOM FORD/ 321 861-3635

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)

SUBSUPPLIER: KICS-109
RESPONDER: JAMES (MIKE) WILLIAMSON/321 867-4123
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/08/05

[PRD] DATABASE RECORD: 581563
DOCUMENT ID: LLS
ITEM NUMBER: THK107K
SECTION: 2800

REQUIREMENT STATUS: APPROVED
APPROVAL DATE: 04/07/05
INITIAL DATE: 04/07/05
DATE LAST CHANGED: 01/18/07
TIME LAST CHANGED: 13:33:15

REQUESTER:	JSC	MSFC	KSC	
SUBREQUESTER:	JSC/MS2 MSFC/TD53	JSC/SX	KSC/MK-SIO	KSC/NE-M7
TEST CODE:	LAUNCH	PREFLT	STSALL	TVPLAN

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 581563
ITEM NUMBER: THK107K

ASSOCIATED DOC: 20007S
TRACKING NO. R0504-6

1. DESCRIPTION: OTH-109 HDTV 720P60

UPGRADE THE CAMERA AT LOCATION ASSIGNED TO OTV-109 (FSS 115' LEVEL) WITH AN HDTV CAMERA OPERATING AT A TRUE 60 FPS. FEED OF HD-SDI TO THE CICE CONSOLE IN LCC FR2.

RECORDING OF HD-SDI UTILIZING WAVELET COMPRESSION PER INTERCENTER PHOTO WORKING GROUP DIRECTION. IRIG-B TIMING TO BE PLACED IN THE HEADER (ANCILLARY DATA) AREA OF EACH FRAME. NOMINAL RECORDING FOR LAUNCH SUPPORT IS T-1 MINUTE THROUGH T+30 SECONDS. OFF-NOMINAL RECORDING PER CICE DIRECTION.

DOWN-CONVERT TO COMPOSITE ANALOG NTSC VIDEO AT 29.97 FPS FOR INPUT INTO LCC OTV DISTRIBUTION SYSTEM AS OTV-109. OTHER NTSC RECORDING REQUIREMENTS MAY APPLY. INITIAL SET-UP OF DOWN-CONVERT DISTRIBUTION WILL BE IN "CROP" MODE. CAPABILTIY TO TRANSITION TO "LETTERBOX" MODE WILL BE MAINTAINED. PH CHIEF ENGINEER TO DETERMINE FORMAT OF DOWN-CONVERT AS EITHER LETTERBOX OR CROPPED.

PRVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

REF: DBR 10353 VIDEO COMPOSITE TAPE (LAUNCH)
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 10638 TIMING INFORMATION ON VIDEO
REF: DBR 14648 FIRST ENGINEERING VIDEO REPLAY VIA SATELLITE (LAUNCH)

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPWG CHAIR)/321 867-8516

TECH CONTACTS: MSFC/TD53/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/SX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

CONTINUED

[PRD] DATABASE RECORD: 581563
ITEM NUMBER: THK107K

NEED DATE: STS-121 AND SUBS.

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQUIRED	RECIPIENT/REMARKS
1	DIGITAL FILE	1	1 HR	KSC INTEGRATED IMAGERY SYSTEM (KIIS) MIRRORED SERVER (MS) FOR DISTRIBUTION TO THE IMAGE ANALYSIS FACILITIES.
OR				
2	DIGITAL FILE	1	1 HR	MSFC/TD53/TOM RIECKHOFF 256 544-7677
3	DIGITAL FILE	1	1 HR	JSC/SX/JON DISLER/ 281 483-5182
4	DIGITAL FILE	1	1 HR	KSC/NE-M7/TOM FORD/ 321 861-3635

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)

SUBSUPPLIER: KICS-109
RESPONDER: JAMES (MIKE) WILLIAMSON/321 867-4123
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/08/05

[PRD] DATABASE RECORD: 581564
DOCUMENT ID: LLS
ITEM NUMBER: THK108K
SECTION: 2800

REQUIREMENT STATUS: APPROVED
APPROVAL DATE: 04/07/05
INITIAL DATE: 04/07/05
DATE LAST CHANGED: 01/18/07
TIME LAST CHANGED: 13:33:48

REQUESTER:	JSC	MSFC	KSC	
SUBREQUESTER:	JSC/MS2 MSFC/TD53	JSC/SX	KSC/MK-SIO	KSC/NE-M7
TEST CODE:	LAUNCH	PREFLT	STSALL	TVPLAN

ASSOCIATED DOC: 20007S
TRACKING NO. R0504-6

CONTINUED

[PRD] DATABASE RECORD: 581564
ITEM NUMBER: THK108K

1. DESCRIPTION: OTH-154 HDTV 720P60

UPGRADE THE CAMERA AT LOCATION ASSIGNED TO OTV-154 (MLP SIDE 4, "0" LEVEL) WITH AN HDTV CAMERA OPERATING AT A TRUE 60 FPS. FEED OF HD-SDI TO THE CICE CONSOLE IN LCC FR2.

RECORDING OF HD-SDI UTILIZING WAVELET COMPRESSION PER INTERCENTER PHOTO WORKING GROUP DIRECTION. IRIG-B TIMING TO BE PLACED IN THE HEADER (ANCILLARY DATA) AREA OF EACH FRAME. NOMINAL RECORDING FOR LAUNCH SUPPORT IS T-1 MINUTE THROUGH T+30 SECONDS. OFF-NOMINAL RECORDING PER CICE DIRECTION.

DOWN-CONVERT TO COMPOSITE ANALOG NTSC VIDEO AT 29.97 FPS FOR INPUT INTO LCC OTV DISTRIBUTION SYSTEM AS OTV-154. OTHER NTSC RECORDING REQUIREMENTS MAY APPLY. INITIAL SET-UP OF DOWN-CONVERT DISTRIBUTION WILL BE IN "CROP" MODE. CAPABILTIY TO TRANSITION TO "LETTERBOX" MODE WILL BE MAINTAINED. PH CHIEF ENGINEER TO DETERMINE FORMAT OF DOWN-CONVERT AS EITHER LETTERBOX OR CROPPED.

PRVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

REF: DBR 10353 VIDEO COMPOSITE TAPE (LAUNCH)
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 10638 TIMING INFORMATION ON VIDEO
REF: DBR 14648 FIRST ENGINEERING VIDEO REPLAY VIA SATELLITE (LAUNCH)

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPWG CHAIR)/321 867-8516

TECH CONTACTS: MSFC/TD53/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/SX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

NEED DATE: STS-121 AND SUBS.

DATA DISPOSITION:

CONTINUED

[PRD] DATABASE RECORD: 581564
ITEM NUMBER: THK108K

REF	TYPE	QTY	TIME REQUIRED	RECIPIENT/REMARKS
1	DIGITAL FILE	1	1 HR	KSC INTEGRATED IMAGERY SYSTEM (KIIS) MIRRORED SERVER (MS) FOR DISTRIBUTION TO THE IMAGE ANALYSIS FACILITIES.
OR				
2	DIGITAL FILE	1	1 HR	MSFC/TD53/TOM RIECKHOFF 256 544-7677
3	DIGITAL FILE	1	1 HR	JSC/SX/JON DISLER/ 281 483-5182
4	DIGITAL FILE	1	1 HR	KSC/NE-M7/TOM FORD/ 321 861-3635

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)

SUBSUPPLIER: KICS-109
RESPONDER: JAMES (MIKE) WILLIAMSON/321 867-4123
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/08/05

[PRD] DATABASE RECORD: 581566
DOCUMENT ID: LLS
ITEM NUMBER: THK109K
SECTION: 2800

REQUIREMENT STATUS: APPROVED
APPROVAL DATE: 04/07/05
INITIAL DATE: 04/07/05
DATE LAST CHANGED: 01/18/07
TIME LAST CHANGED: 13:34:15

REQUESTER:	JSC	MSFC	KSC	
SUBREQUESTER:	JSC/MS2 MSFC/TD53	JSC/SX	KSC/MK-SIO	KSC/NE-M7
TEST CODE:	LAUNCH	PREFLT	STSALL	TVPLAN

ASSOCIATED DOC: 20007S 20037S
TRACKING NO. R0504-6

1. DESCRIPTION: OTH-163 HDTV 720P60

UPGRADE THE CAMERA AT LOCATION ASSIGNED TO OTV-163 (FSS 155 FT

CONTINUED

[PRD] DATABASE RECORD: 581566
ITEM NUMBER: THK109K

LEVEL) WITH AN HDTV CAMERA OPERATING AT A TRUE 60 FPS. FEED OF HD-SDI TO THE CICE CONSOLE IN LCC FR2.

RECORDING OF HD-SDI UTILIZING WAVELET COMPRESSION PER INTERCENTER PHOTO WORKING GROUP DIRECTION. IRIG-B TIMING TO BE PLACED IN THE HEADER (ANCILLARY DATA) AREA OF EACH FRAME. NOMINAL RECORDING FOR LAUNCH SUPPORT IS T-1 MINUTE THROUGH T+30 SECONDS. OFF-NOMINAL RECORDING PER CICE DIRECTION.

DOWN-CONVERT TO COMPOSITE ANALOG NTSC VIDEO AT 29.97 FPS FOR INPUT INTO LCC OTV DISTRIBUTION SYSTEM AS OTV-163. OTHER NTSC RECORDING REQUIREMENTS MAY APPLY. INITIAL SET-UP OF DOWN-CONVERT DISTRIBUTION WILL BE IN "CROP" MODE. CAPABILTIY TO TRANSITION TO "LETTERBOX" MODE WILL BE MAINTAINED. PH CHIEF ENGINEER TO DETERMINE FORMAT OF DOWN-CONVERT AS EITHER LETTERBOX OR CROPPED.

PRVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

REF: DBR 10353 VIDEO COMPOSITE TAPE (LAUNCH)
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 10638 TIMING INFORMATION ON VIDEO
REF: DBR 14648 FIRST ENGINEERING VIDEO REPLAY VIA SATELLITE (LAUNCH)

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPWG CHAIR)/321 867-8516

TECH CONTACTS: MSFC/TD53/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/SX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

NEED DATE: STS-114 (INCLUDING TANKING TEST) AND SUBS.

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQUIRED	RECIPIENT/REMARKS
1	DIGITAL FILE	1	1 HR	KSC INTEGRATED IMAGERY SYSTEM (KIIS) MIRRORED SERVER (MS)

CONTINUED

[PRD] DATABASE RECORD: 581566
ITEM NUMBER: THK109K

				FOR DISTRIBUTION TO THE IMAGE ANALYSIS FACILITIES.
OR				
2	DIGITAL FILE	1	1 HR	MSFC/TD53/TOM RIECKHOFF 256 544-7677
3	DIGITAL FILE	1	1 HR	JSC/SX/JON DISLER/ 281 483-5182
4	DIGITAL FILE	1	1 HR	KSC/NE-M7/TOM FORD/ 321 861-3635

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)

SUBSUPPLIER: KICS-109
RESPONDER: JAMES (MIKE) WILLIAMSON/321 867-4123
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/08/05

[PRD] DATABASE RECORD: 581577 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/07/05
INITIAL DATE: 04/07/05
ITEM NUMBER: THK110K DATE LAST CHANGED: 01/18/07
SECTION: 2800 TIME LAST CHANGED: 13:34:48

REQUESTER:	JSC	MSFC		KSC
SUBREQUESTER:	JSC/MS2 MSFC/TD53	JSC/SX	KSC/MK-SIO	KSC/NE-M7
TEST CODE:	LAUNCH	PREFLT	STSALL	TVPLAN

ASSOCIATED DOC: 20007S
TRACKING NO. R0504-6

1. DESCRIPTION: OTH-170 HDTV 720P60

UPGRADE THE CAMERA AT LOCATION ASSIGNED TO OTV-170 (SE FIELD) WITH AN HDTV CAMERA OPERATING AT A TRUE 60 FPS. FEED OF HD-SDI TO THE CICE CONSOLE IN LCC FR2.

RECORDING OF HD-SDI UTILIZING WAVELET COMPRESSION PER INTERCENTER

CONTINUED

[PRD] DATABASE RECORD: 581577
ITEM NUMBER: THK110K

PHOTO WORKING GROUP DIRECTION. IRIG-B TIMING TO BE PLACED IN THE HEADER (ANCILLARY DATA) AREA OF EACH FRAME. NOMINAL RECORDING FOR LAUNCH SUPPORT IS T-1 MINUTE THROUGH T+30 SECONDS. OFF-NOMINAL RECORDING PER CICE DIRECTION.

DOWN-CONVERT TO COMPOSITE ANALOG NTSC VIDEO AT 29.97 FPS FOR INPUT INTO LCC OTV DISTRIBUTION SYSTEM AS OTV-170. OTHER NTSC RECORDING REQUIREMENTS MAY APPLY. INITIAL SET-UP OF DOWN-CONVERT DISTRIBUTION WILL BE IN "CROP" MODE. CAPABILTIY TO TRANSITION TO "LETTERBOX" MODE WILL BE MAINTAINED. PH CHIEF ENGINEER TO DETERMINE FORMAT OF DOWN-CONVERT AS EITHER LETTERBOX OR CROPPED.

PRVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

REF: DBR 10353 VIDEO COMPOSITE TAPE (LAUNCH)
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 10638 TIMING INFORMATION ON VIDEO
REF: DBR 14648 FIRST ENGINEERING VIDEO REPLAY VIA SATELLITE (LAUNCH)
REF: DBR 534341 TELEVISION VIEW CAPABILITIES
REF: DBR 534343 TELEVISION VIEW CAPABILITIES

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPWG CHAIR)/321 867-8516

TECH CONTACTS: MSFC/TD53/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/SX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

NEED DATE: STS-114 (INCLUDING TANKING TEST) AND SUBS.

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQUIRED	RECIPIENT/REMARKS
1	DIGITAL FILE	1	1 HR	KSC INTEGRATED IMAGERY SYSTEM (KIIS) MIRRORED SERVER (MS) FOR DISTRIBUTION TO THE IMAGE ANALYSIS FACILITIES.

CONTINUED

[PRD] DATABASE RECORD: 581577
ITEM NUMBER: THK110K

OR				
2	DIGITAL FILE	1	1 HR	MSFC/TD53/TOM RIECKHOFF 256 544-7677
3	DIGITAL FILE	1	1 HR	JSC/SX/JON DISLER/ 281 483-5182
4	DIGITAL FILE	1	1 HR	KSC/NE-M7/TOM FORD/ 321 861-3635

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)

SUBSUPPLIER: KICS-109
RESPONDER: JAMES (MIKE) WILLIAMSON/321 867-4123
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/08/05

[PRD] DATABASE RECORD: 581578 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/07/05
INITIAL DATE: 04/07/05
ITEM NUMBER: THK111K DATE LAST CHANGED: 01/18/07
SECTION: 2800 TIME LAST CHANGED: 13:35:53

REQUESTER:	JSC	MSFC		KSC
SUBREQUESTER:	JSC/MS2 MSFC/TD53	JSC/SX	KSC/MK-SIO	KSC/NE-M7
TEST CODE:	LAUNCH	PREFLT	STSALL	TVPLAN

ASSOCIATED DOC: 20007S
TRACKING NO. R0504-6

1. DESCRIPTION: OTH-171 HDTV 720P60

UPGRADE THE CAMERA AT LOCATION ASSIGNED TO OTV-171 (SW FIELD) WITH AN HDTV CAMERA OPERATING AT A TRUE 60 FPS. FEED OF HD-SDI TO THE CICE CONSOLE IN LCC FR2.

RECORDING OF HD-SDI UTILIZING WAVELET COMPRESSION PER INTERCENTER PHOTO WORKING GROUP DIRECTION. IRIG-B TIMING TO BE PLACED IN THE HEADER (ANCILLARY DATA) AREA OF EACH FRAME. NOMINAL RECORDING FOR

CONTINUED

[PRD] DATABASE RECORD: 581578
ITEM NUMBER: THK111K

LAUNCH SUPPORT IS T-1 MINUTE THROUGH T+30 SECONDS. OFF-NOMINAL RECORDING PER CICE DIRECTION.

DOWN-CONVERT TO COMPOSITE ANALOG NTSC VIDEO AT 29.97 FPS FOR INPUT INTO LCC OTV DISTRIBUTION SYSTEM AS OTV-171. OTHER NTSC RECORDING REQUIREMENTS MAY APPLY. INITIAL SET-UP OF DOWN-CONVERT DISTRIBUTION WILL BE IN "CROP" MODE. CAPABILTIY TO TRANSITION TO "LETTERBOX" MODE WILL BE MAINTAINED. PH CHIEF ENGINEER TO DETERMINE FORMAT OF DOWN-CONVERT AS EITHER LETTERBOX OR CROPPED.

PRVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

REF: DBR 10353 VIDEO COMPOSITE TAPE (LAUNCH)
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 10638 TIMING INFORMATION ON VIDEO
REF: DBR 14648 FIRST ENGINEERING VIDEO REPLAY VIA SATELLITE (LAUNCH)
REF: DBR 534341 TELEVISION VIEW CAPABILITIES

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPWG CHAIR)/321 867-8516

TECH CONTACTS: MSFC/TD53/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/SX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

NEED DATE: STS-114 (INCLUDING TANKING TEST) AND SUBS.

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQUIRED	RECIPIENT/REMARKS
1	DIGITAL FILE	1	1 HR	KSC INTEGRATED IMAGERY SYSTEM (KIIS) MIRRORED SERVER (MS) FOR DISTRIBUTION TO THE IMAGE ANALYSIS FACILITIES.
OR				
2	DIGITAL FILE	1	1 HR	MSFC/TD53/TOM RIECKHOFF 256 544-7677

CONTINUED

[PRD] DATABASE RECORD: 581578
ITEM NUMBER: THK111K

3	DIGITAL FILE	1	1 HR	JSC/SX/JON DISLER/ 281 483-5182
4	DIGITAL FILE	1	1 HR	KSC/NE-M7/TOM FORD/ 321 861-3635

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)

SUBSUPPLIER: KICS-109
RESPONDER: JAMES (MIKE) WILLIAMSON/321 867-4123
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/08/05

[PRD] DATABASE RECORD: 581600
DOCUMENT ID: LLS
ITEM NUMBER: KT112EG
SECTION: 2800

REQUIREMENT STATUS: APPROVED
APPROVAL DATE: 04/08/05
INITIAL DATE: 04/08/05
DATE LAST CHANGED: 02/22/07
TIME LAST CHANGED: 11:28:25

REQUESTER: KSC JSC
SUBREQUESTER: JSC/MT
TEST CODE: S0007.100 STSALL TVPLAN

ASSOCIATED DOC: 20007S
TRACKING NO. L06-11-1 R0504-7

1. DESCRIPTION: ET TV VIDEO EQUIPMENT RACK

RESPONSIBLE AGENCY: ER & GSFC

ER/JDMTA WILL PROVIDE SPACE FOR PORTABLE EQUIPMENT RACKS. THE RACKS WILL BE PROVIDED AND INSTALLED BY GSFC WITH JDMTA ASSISTANCE. THIS EQUIPMENT WILL PROVIDE PRIME/BACKUP CAPABILITY FOR VIDEO PROCESSING, TESTING, SUPPORT, RECORDING, AND TRANSMISSION TO THE PORTABLE EARTH STATIONS. JDMTA WILL PROVIDE IRIG-B TIMING AND THE VIDEO SIGNALS FROM PRIME AND BACKUP RECEIVERS TO THE PORTABLE EQUIPMENT RACKS.

POC: JSC/MS2/CHRISTINE BOYKIN/281 483-1251
JSC/M03-USA/RAY BANKS/281 483-8233

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 581600
ITEM NUMBER: KT112EG

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 06/14/05
RESPONSE: THE NASA PORTABLE ESTA MUST ARRIVE AT JDMTA
AT OR BEFORE 0800 L ON L-1 TO CHECK OUT INTERCONNECTIONS BETWEEN THE
PORTABLE EQUIPMENT AND RESOLVE ANY UNFORESEEN ISSUES AND LESSEN ANY
POTENTIAL INTERFERENCE WITH ER INSTRUMENTATION SETUP REQUIREMENTS
AT JDMTA. THE ER SITE PERSONNEL RETAIN THE AUTHORITY TO DIRECT
THE ESTA TO STOP RADIATING IF AT ANY TIME DURING THE MISSION THE
ESTA INTERFERES WITH ER RANGE SAFETY RADAR TRACKING, TELEMETRY
RECEPTION, OR COMMAND DESTRUCT SYSTEMS.

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/08/05

[PRD] DATABASE RECORD: 581601 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/08/05
INITIAL DATE: 04/08/05
ITEM NUMBER: GKT113E DATE LAST CHANGED: 11/28/06
SECTION: 2800 TIME LAST CHANGED: 11:27:19

REQUESTER: GSFC KSC JSC
SUBREQUESTER: JSC/MT
TEST CODE: LAUNCH PREFLT S0007.100 STSALL

ASSOCIATED DOC: 20007S 20017S
TRACKING NO. L06-11-1 R0504-7

1. DESCRIPTION: ET TV DOWNLINK

ER/JDMTA WILL RECEIVE AND RECORD ET TV CAMERA DOWNLINK FREQUENCY
2272.5 MHz AND CONTINUE TO TRACK UNTIL ET SEPARATION. PROVIDE

CONTINUED

[PRD] DATABASE RECORD: 581601
ITEM NUMBER: GKT113E

VIDEO AND IRIG-B TIMING SIGNAL INPUTS TO PORTABLE EQUIPMENT RACK SUPPLIED AND OPERATED BY GSFC ENGINEERING PERSONNEL. THE GSFC EQUIPMENT WILL PROVIDE PRIME/BACKUP CAPABILITY FOR VIDEO PROCESSING, TESTING, RECORDING, AND TRANSMISSION. GSFC WILL PROVIDE FOR PORTABLE EARTH STATION AND COMMERCIAL SATELLITE TRANSPONDER FOR REAL-TIME TRANSMISSION OF ET VIDEO TO KSC. VIDEO PLAYBACKS WILL BE PERFORMED ON REQUEST PRIOR TO RELEASE OF THE PORTABLE EARTH STATION/SATELLITE TRANSPONDER SUPPORT.

POC: JSC/MS2/CHRISTINE BOYKIN/281 483-1251
JSC/M03-USA/RAY BANKS/281 483-8233

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: BART KLEINFELDT/321 853-8650

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 06/14/05
RESPONSE: THE NASA PORTABLE ESTA MUST ARRIVE AT JDMTA AT OR BEFORE 0800 L ON L-1 TO CHECK OUT INTERCONNECTIONS BETWEEN THE PORTABLE EQUIPMENT AND RESOLVE ANY UNFORESEEN ISSUES AND LESSEN ANY POTENTIAL INTERFERENCE WITH ER INSTRUMENTATION SETUP REQUIREMENTS AT JDMTA. THE ER SITE PERSONNEL RETAIN THE AUTHORITY TO DIRECT THE ESTA TO STOP RADIATING IF AT ANY TIME DURING THE MISSION THE ESTA INTERFERES WITH ER RANGE SAFETY RADAR TRACKING, TELEMETRY RECEPTION, OR COMMAND DESTRUCT SYSTEMS.

[PRD] DATABASE RECORD: 581602 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/08/05
INITIAL DATE: 04/08/05
ITEM NUMBER: KTY114EG DATE LAST CHANGED: 01/16/07
SECTION: 2800 TIME LAST CHANGED: 10:40:11

REQUESTER: KSC JSC NASA HQ
TEST CODE: LAUNCH PREFLT STSALL TVPLAN

ASSOCIATED DOC: 20007S

CONTINUED

[PRD] DATABASE RECORD: 581602
ITEM NUMBER: KTY114EG

TRACKING NO. L06-11-1 R0504-7

1. DESCRIPTION: ET TV DIGITAL RECORDING AND DISPOSITION

RESPONSIBLE AGENCY: GSFC AND ER

WALLOPS, MILA, PDL, AND JDMTA ARE REQUIRED TO RECORD THE DIGITAL IMAGES COMPATIBLE WITH OTHER INTER-CENTER PHOTO WORKING GROUP (IPWG) DIGITAL IMAGE RECORDINGS IN WAVELET BASED FORMAT USED BY KSC, JSC AND MSFC IMAGE ANALYSIS LABS. JDMTA WILL UTILIZE THE GSFC PROVIDED EQUIPMENT FOR RECORDING PURPOSES. THESE RECORDINGS WILL BE PROVIDED TO KSC WITHIN 18 HOURS OF LIFTOFF. THE HARD DRIVES WILL BE TRANSFERRED BY COURIER TRANSPORT TO KSC FOR DIGITAL IMAGE RETRIEVAL. EACH STATION WILL RETAIN A COPY OF THE DIGITAL FILE UNTIL TERMINATION OF THE SUBSEQUENT (NEXT) STS MISSION OR UNTIL RELEASED BY THE GSFC NETWORK DIRECTOR (ND). TRANSFER OF DIGITAL IMAGES AS ELECTRONIC FILES VIA THE KSC LAN INTERFACE FROM MILA AND WPS VIA THE PREMINUM IP (PIP) SERVICE. MILA AND WLPS WILL PROVIDE THE FILE TRANSFER ON A BEST EFFORT BASIS AS A PROOF OF CONCEPT CAPABILITY FOR SUBSEQUENT FLIGHTS.

POC: JSC/MS2/CHRISTINE BOYKIN/281 483-1251
JSC/M03-USA/RAY BANKS/281 483-8233

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 06/14/05
RESPONSE: THE NASA PORTABLE ESTA MUST ARRIVE AT JDMTA AT OR BEFORE 0800 L ON L-1 TO CHECK OUT INTERCONNECTIONS BETWEEN THE PORTABLE EQUIPMENT AND RESOLVE ANY UNFORESEEN ISSUES AND LESSEN ANY POTENTIAL INTERFERENCE WITH ER INSTRUMENTATION SETUP REQUIREMENTS AT JDMTA. THE ER SITE PERSONNEL RETAIN THE AUTHORITY TO DIRECT THE ESTA TO STOP RADIATING IF AT ANY TIME DURING THE MISSION THE ESTA INTERFERES WITH ER RANGE SAFETY RADAR TRACKING, TELEMETRY RECEPTION, OR COMMAND DESTRUCT SYSTEMS.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 581602
ITEM NUMBER: KTY114EG

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/08/05

[PRD] DATABASE RECORD: 587897 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/28/06
INITIAL DATE: 06/28/06
ITEM NUMBER: KT117K DATE LAST CHANGED: 01/18/07
SECTION: 2800 TIME LAST CHANGED: 13:36:50

REQUESTER: KSC JSC
SUBREQUESTER: JSC/B-NS JSC/KX JSC/MV KSC/NE-M7
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20028S
TRACKING NO. LSR06-6-6

1. DESCRIPTION: EHV001 - ORBITER LANDING ACQUISITION OF VIEW (AOV) (~LANDING -30 MINUTES) THRU ROLLOUT AND WHEEL STOP. FOR NOMINAL AND CONTINGENCY EOM LANDINGS ONLY. HDTV TRACKING COVERAGE OF ORBITER DURING FINAL APPROACH FOR LANDING TO LOSS OF VIEW (LOV). START CAMERA AT AOV. ITEM NOT ACTIVATED FOR NIGHT LANDING.

LOCATION: KSC SLF SITE B/KTM
FIELD OF VIEW: ENTIRE ORBITER AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: HDTV (4-2-2)
F/L: AS REQUIRED TO MEET FIELD OF VIEW (COTS/ZOOM)
FPS: 60 FPS, PROGRESSIVE SCAN
FILM TYPE LOAD:
INTERVAL: AOV THRU TOUCHDOWN AND ROLLOUT
F/T: T
EXP.: AUTO
TIMING: YES

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IMAGERY PLANNING INTEGRATION (IPI) CHAIR)/321 861-3644

CONTINUED

[PRD] DATABASE RECORD: 587897
ITEM NUMBER: KT117K

TECHNICAL CONTACTS: MSFC/TD53/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3644
JSC/SX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS: PROVIDE PHOTO COVERAGE OF ORBITER FROM ACQUISITION OF VEHICLE THROUGH ROLLOUT AND WHEEL STOP TO AID IN THE DETERMINATION OF ANOMALIES. FIELD OF VIEW (FOV) WILL BE THE ENTIRE ORBITER VIEW, INCLUDING THE FULL DRAG PARACHUTE (TRAILING DISTANCE APPROXIMATELY 100 FEET) TO SHOW VEHICLE RESPONSE TO THE DRAG CHUTE DEPLOY. ALL CAMERA POSITIONS ARE TO BE SITE SURVEYED. AZIMUTH AND ELEVATION OF CAMERA MOUNT WILL BE PROVIDED, (REF LLS3100, ITEM HT50EK, DBR 010634) AS WELL AS TIMING, (REF LLS3100, ITEM TH1.1EKXZ, DBR 227579). THE AZ/EL AND TIMING DATA SHOULD BE UPDATED FOR EACH FRAME.

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	DIGITAL FILE	1	1 HR	KSC INTEGRATED IMAGERY SYSTEM (KIIS) MIRRORED SERVER (MS) FOR DISTRIBUTION TO THE IMAGE ANALYSIS FACILITIES
	OR			
2	DIGITAL FILE	1	1 HR	MSFC/TD53/TOM RIECKHOFF/ 256 544-7677
3	DIGITAL FILE	1	1 HR	JSC/SX/JON DISLER/281 483-5182
4	DIGITAL FILE	1	1 HR	KSC/NE-M7/TOM FORD/321 861-3635
5	DIGITAL FILE	1	BY REQ (ON REQUEST ONLY)	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/28/06

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 587897
ITEM NUMBER: KT117K

[PRD] DATABASE RECORD: 587917 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/28/06
INITIAL DATE: 06/28/06
ITEM NUMBER: KT118K DATE LAST CHANGED: 01/18/07
SECTION: 2800 TIME LAST CHANGED: 13:37:23

REQUESTER: KSC JSC
SUBREQUESTER: JSC/B-NS JSC/KX JSC/MV KSC/NE-M7
TEST CODE: KSC SLF

ASSOCIATED DOC: 20028S
TRACKING NO. LSR06-6-6

1. DESCRIPTION: EHV010 - ORBITER LANDING ACQUISITION OF VIEW (AOV) (~LANDING -30 MINUTES) THRU ROLLOUT AND WHEEL STOP. FOR NOMINAL AND CONTINGENCY EOM LANDINGS ONLY. HDTV TRACKING COVERAGE OF ORBITER DURING FINAL APPROACH FOR LANDING TO LOSS OF VIEW (LOV). START CAMERA AT AOV. ITEM NOT ACTIVATED FOR NIGHT LANDING.

LOCATION: KSC SLF SITE A/KTM
FIELD OF VIEW: ENTIRE ORBITER AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: HDTV (4-2-2)
F/L: AS REQUIRED TO MEET FIELD OF VIEW (COTS/ZOOM)
FPS: 60 FPS, PROGRESSIVE SCAN
FILM TYPE LOAD:
INTERVAL: AOV THRU TOUCHDOWN, ROLLOUT AND WHEEL STOP
F/T: T
EXP.: AUTO
TIMING: YES

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IMAGERY PLANNING INTEGRATION (IPI) CHAIR)/321 861-3644

TECHNICAL CONTACTS: MSFC/TD53/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3644
JSC/SX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

CONTINUED

[PRD] DATABASE RECORD: 587917
ITEM NUMBER: KT118K

REMARKS: PROVIDE PHOTO COVERAGE OF ORBITER FROM ACQUISITION OF VEHICLE THROUGH ROLLOUT AND WHEEL STOP TO AID IN THE DETERMINATION OF ANOMALIES. FIELD OF VIEW (FOV) WILL BE THE ENTIRE ORBITER VIEW, INCLUDING THE FULL DRAG PARACHUTE (TRAILING DISTANCE APPROXIMATELY 100 FEET) TO SHOW VEHICLE RESPONSE TO THE DRAG CHUTE DEPLOY. ALL CAMERA POSITIONS ARE TO BE SITE SURVEYED. AZIMUTH AND ELEVATION OF CAMERA MOUNT WILL BE PROVIDED, (REF LLS3100, ITEM HT50EK, DBR 010634) AS WELL AS TIMING, (REF LLS3100, ITEM TH1.1EKXZ, DBR 227597). THE AZ/EL AND TIMING DATA SHOULD BE UPDATED FOR EACH FRAME.

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	DIGITAL FILE	1	1 HR	KSC INTEGRATED IMAGERY SYSTEM (KIIS) MIRRORED SERVER (MS) FOR DISTRIBUTION TO THE IMAGE ANALYSIS FACILITIES
	OR			
2	DIGITAL FILE	1	1 HR	MSFC/TD53/TOM RIECKHOFF/ 256 544-7677
3	DIGITAL FILE	1	1 HR	JSC/SX/JON DISLER/281 483-5182
4	DIGITAL FILE	1	1 HR	KSC/NE-M7/TOM FORD/321 861-3635
5	DIGITAL FILE	1	BY REQ ON REQUEST ONLY)	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/28/06

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 587918 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/28/06
INITIAL DATE: 06/28/06
ITEM NUMBER: KT119K DATE LAST CHANGED: 01/18/07
SECTION: 2800 TIME LAST CHANGED: 13:37:52

REQUESTER: KSC JSC
SUBREQUESTER: JSC/B-NS JSC/KX JSC/MV KSC/NE-M7
TEST CODE: KSC SLF

ASSOCIATED DOC: 20028S
TRACKING NO. LSR06-6-6

1. DESCRIPTION: EHV012 - ORBITER LANDING ACQUISITION OF VIEW (AOV) (~LANDING -30 MINUTES) THRU ROLLOUT AND WHEEL STOP. FOR NOMINAL AND CONTINGENCY EOM LANDINGS ONLY. HDTV TRACKING COVERAGE OF ORBITER DURING FINAL APPROACH FOR LANDING TO LOV. START CAMERA AT AOV. ITEM NOT ACTIVATED FOR NIGHT LANDINGS.

LOCATION: KSC SLF SITE E/KTM
FIELD OF VIEW: ENTIRE ORBITER AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: HDTV (4-2-2)
F/L: AS REQUIRED TO MEET FIELD OF VIEW (COTS/ZOOM)
FPS: 60 FPS, PROGRESSIVE SCAN
FILM TYPE LOAD:
INTERVAL: AOV THRU TOUCHDOWN AND ROLLOUT
F/T: T
EXP.: AUTO
TIMING: YES

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IMAGERY PLANNING INTEGRATION (IPI) CHAIR)/321 861-3644

TECHNICAL CONTACT: MSFC/TD53/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/SX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS: PROVIDE PHOTO COVERAGE OF ORBITER FROM ACQUISITION OF VIEW OF VEHICLE THROUGH ROLLOUT AND WHEEL STOP TO AID IN THE DETERMINATION OF ANOMALIES. FIELD OF VIEW (FOV) WILL BE THE ENTIRE ORBITER VIEW, INCLUDING THE FULL DRAG PARACHUTE

CONTINUED

[PRD] DATABASE RECORD: 587918
ITEM NUMBER: KT119K

(TRAILING DISTANCE APPROXIMATELY 100 FEET) TO SHOW VEHICLE RESPONSE TO THE DRAG CHUTE DEPLOY. ALL CAMERA POSITIONS ARE TO BE SITE SURVEYED. AZIMUTH AND ELEVATION OF CAMERA MOUNT WILL BE PROVIDED, (REF LLS3100, ITEM HT50EK, DBR 010634) AS WELL AS TIMING, (REF LLS3100, ITEM TH1.1EKXZ, DBR 227597). THE AL/EL AND TIMING DATA SHOULD BE UPDATED FOR EACH FRAME.

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	DIGITAL FILE	1	1 HR	KSC INTEGRATED IMAGERY SYSTEM (KIIS) MIRRORED SERVER (MS) FOR DISTRIBUTION TO THE IMAGE ANALYSIS FACILITIES
	OR			
2	DIGITAL FILE	1	1 HR	MSFC/TD53/TOM RIECKHOFF/256 544-7677
3	DIGITAL FILE	1	1 HR	JSC/SX/JON DISLER/281 483-5182
4	DIGITAL FILE	1	1 HR	KSC/NE-M7/TOM FORD/321 861-3635
5	DIGITAL FILE	1	BY REQ	JSC/BOEING/HS4-40/GAIL HARGROVE/
		ON REQUEST ONLY)		281 226-5575

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/28/06

[PRD] DATABASE RECORD: 587919 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/28/06
INITIAL DATE: 06/28/06
ITEM NUMBER: KT120K DATE LAST CHANGED: 01/18/07
SECTION: 2800 TIME LAST CHANGED: 13:38:26

REQUESTER: KSC JSC
SUBREQUESTER: JSC/B-NS JSC/KX JSC/MV KSC/NE-M7

CONTINUED

[PRD] DATABASE RECORD: 587919
ITEM NUMBER: KT120K

TEST CODE: KSC SLF

ASSOCIATED DOC: 20028S
TRACKING NO. LSR06-6-6

1. DESCRIPTION: EHV015 - ORBITER LANDING ACQUISITION OF VIEW (AOV) OF VEHICLE (~LANDING -30 MINUTES) THRU ROLLOUT AND WHEEL STOP. FOR NOMINAL AND CONTINGENCY EOM LANDING ONLY. HDTV TRACKING COVERAGE OF ORBITER DURING FINAL APPROACH FOR LANDING TO LOV. START CAMERA AT AOV. ITEM NOT ACTIVATED FOR NIGHT LANDING.

LOCATION: KSC SLF SITE D/KTM
FIELD OF VIEW: ENTIRE ORBITER AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: HDTV (4-2-2)
F/L: AS REQUIRED TO MEET FIELD OF VIEW (COTS/ZOOM)
FPS: 60 FPS, PROGRESSIVE SCAN
FILM TYPE LOAD:
INTERVAL: AOV THRU TOUCHDOWN, ROLLOUT AND WHEEL STOP
F/T: T
EXP.: AUTO
TIMING: YES

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IMAGERY PLANNING INTEGRATION (IPI) CHAIR)/321 861-3644

TECHNICAL CONTACT: MSFC/TD53/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/SX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS: PROVIDE PHOTO COVERAGE OF ORBITER FROM ACQUISITION OF VEHICLE THROUGH ROLLOUT AND WHEEL STOP TO AID IN THE DETERMINATION OF ANOMALIES. FIELD OF VIEW (FOV) WILL BE THE ENTIRE ORBITER VIEW, INCLUDING THE FULL DRAG PARACHUTE (TRAILING DISTANCE APPROXIMATELY 100 FEET) TO SHOW VEHICLE RESPONSE TO THE DRAG CHUTE DEPLOY. ALL CAMERA POSITIONS ARE TO BE SITE SURVEYED. AZIMUTH AND ELEVATION OF CAMERA MOUNT WILL BE PROVIDED, (REF LLS3100, ITEM HT50EK, DBR 010634) AS WELL AS TIMING,

CONTINUED

[PRD] DATABASE RECORD: 587919
ITEM NUMBER: KT120K

(REF LLS3100, TIEM TH1.1EKXZ, DBR 227597). THE AZ/EL AND TIMING DATA SHOULD BE UPDATED FOR EACH FRAME.

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	DIGITAL FILE	1	1 HR	KSC INTEGRATED IMAGERY SYSTEM (KIIS) MIRRORED SERVER (MS) FOR DISTRIBUTION TO THE IMAGE ANALYSIS FACILITIES
	OR			
2	DIGITAL FILE	1	1 HR	MSFC/TD53/TOM RIECKHOFF/256 544-7677
3	DIGITAL FILE	1	1 HR	JSC/SX/JON DISLER/281 483-5182
4	DIGITAL FILE	1	1 HR	KSC/NE-M7/TOM FORD/321 861-3635
5	DIGITAL FILE	1	BY REQ (ON REQUEST ONLY)	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/28/06

[PRD] DATABASE RECORD: 587920
DOCUMENT ID: LLS
ITEM NUMBER: KT121EK
SECTION: 2800

REQUIREMENT STATUS: APPROVED
APPROVAL DATE: 03/12/07
INITIAL DATE: 06/28/06
DATE LAST CHANGED: 03/12/07
TIME LAST CHANGED: 08:40:29

REQUESTER: KSC JSC
SUBREQUESTER: JSC/B-NS JSC/KX JSC/MV KSC/NE-M7
TEST CODE: KSC

ASSOCIATED DOC: 20028S
TRACKING NO. LSR06-6-6 R0703-2

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 587920
ITEM NUMBER: KT121EK

1. DESCRIPTION: ELS215 - ORBITER LANDING ACQUISITION OF VIEW (AOV) OF VEHICLE (~LANDING -30 MINUTES) THRU ROLLOUT AND WHEEL STOP. FOR NOMINAL AND CONTINGENCY EOM LANDINGS ONLY. HDTV TRACKING COVERAGE OF ORBITER DURING FINAL APPROACH FOR LANDING TO LOSS OF VIEW (LOV). START CAMERA AT AOV. IN EVENT OF CREW EJECTION, TRACK CREW MEMBERS. PRIMARY COVERAGE IS FOR RUNWAY 15 (SOUTH) LANDING. ITEM NOT ACTIVATED FOR NIGHT LANDING.

LOCATION: KSC UCS-11/ATOTS
FIELD OF VIEW: ENTIRE ORBITER AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: NSTC
F/L: AS REQUIRED TO MEET FIELD OF VIEW (COTS/ZOOM)
FPS: 30 FPS, NSTC
FILM TYPE LOAD:
INTERVAL: AOV THRU LOV
F/T: T
EXP.: MANUAL
TIMING: YES

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IMAGERY PLANNING INTEGRATION (IPI) CHAIR)/321 861-3644

TECHNICAL CONTACT: MSFC/TD53/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/SX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS: PROVIDE PHOTO COVERAGE OF ORBITER FROM ACQUISITION OF VEHICLE THROUGH LOV. FIELD OF VIEW (FOV) WILL BE THE ENTIRE ORBITER VIEW. ALL CAMERA POSITIONS ARE TO BE SITE SURVEYED. AZIMUTH AND ELEVATION OF CAMERA MOUNT WILL BE PROVIDED, (REF LLS3100,ITEM HT50EK, DBR 010634) AS WELL AS TIMING, (REF LLS3100, ITEM TH1.1EKXZ, DBR 227597). THE AZ/EL AND TIMING DATA SHOULD BE UPDATED FOR EACH FRAME.

DATA DISPOSITION:

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 587920
ITEM NUMBER: KT121EK

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	DIGITAL FILE	1	1 HR	KSC INTEGRATED IMAGERY SYSTEM (KIIS) MIRRORED SERVER (MS) FOR DISTRIBUTION TO THE IMAGE ANALYSIS FACILITIES
	OR			
2	DIGITAL FILE	1	1 HR	MSFC/TD53/TOM RIECKHOFF/256 544-7677
3	DIGITAL FILE	1	1 HR	JSC/SX/JON DISLER/281 483-5182
4	DIGITAL FILE	1	1 HR	KSC/NE-M7/TOM FORD/321 861-3635
5	DIGITAL FILE	1	BY REQ (ON REQUEST ONLY)	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/12/07

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/12/07

[PRD] DATABASE RECORD: 587922 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/28/06
INITIAL DATE: 06/28/06
ITEM NUMBER: KT123K DATE LAST CHANGED: 01/18/07
SECTION: 2800 TIME LAST CHANGED: 13:39:54

REQUESTER: KSC JSC
SUBREQUESTER: JSC/B-NS JSC/KX JSC/MV KSC/NE-M7
TEST CODE: KSC

ASSOCIATED DOC: 20028S
TRACKING NO. LSR06-6-6

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 587922
ITEM NUMBER: KT123K

1. DESCRIPTION: EHV225 - ORBITER FINAL APPROACH FOR LANDING, ACQUISITION OF VIEW (AOV) OF VEHICLE (~LANDING -30 MINUTES) THRU ROLLOUT AND WHEEL STOP. FOR NOMINAL AND CONTINGENCY EOM LANDINGS ONLY. HDTV TRACKING COVERAGE OF ORBITER DURING FINAL APPROACH FOR LANDING TO LOSS OF VIEW (LOV). START CAMERA AT AOV. IN EVENT OF CREW EJECTION, CONTINUE TO TRACK VEHICLE. PRIMARY COVERAGE IS FOR RUNWAY 15 (SOUTH) LANDING. ITEM NOT ACTIVATED FOR NIGHT LANDINGS.

LOCATION: KSC UCS-9/KTM
FIELD OF VIEW: ENTIRE ORBITER AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: HDTV (4-2-2)
F/L: AS REQUIRED TO MEET FIELD OF VIEW (COTS/ZOOM)
FPS: 60 FPS, PROGRESSIVE SCAN
FILM TYPE LOAD:
INTERVAL: AOV THRU TOUCHDOWN, ROLLOUT AND WHEEL STOP
F/T: T
EXP.: AUTO
TIMING: YES

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IMAGERY PLANNING INTEGRATION (IPI) CHAIR)/321 861-3644

TECHNICAL CONTACT: MSFC/TD53/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/SX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS: PROVIDE PHOTO COVERAGE OF ORBITER FROM ACQUISITION OF VEHICLE THROUGH ROLLOUT AND WHEEL STOP TO AID IN THE DETERMINATION OF ANOMALIES. FIELD OF VIEW (FOV) WILL BE THE ENTIRE ORBITER VIEW, ALL CAMERA POSITIONS ARE TO BE SITE SURVEYED. AZIMUTH AND ELEVATION OF CAMERA MOUNT WILL BE PROVIDED, (REF LLS3100,ITEM HT50EK, DBR 010634) AS WELL AS TIMING, (REF LLS3100, ITEM TH1.1EKXZ, DBR 227597). THE AZ/EL AND TIMING DATA SHOULD BE UPDATED FOR EACH FRAME.

DATA DISPOSITION:

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 587922
ITEM NUMBER: KT123K

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	DIGITAL FILE	1	1 HR	KSC INTEGRATED IMAGERY SYSTEM (KIIS) MIRRORED SERVER (MS) FOR DISTRIBUTION TO THE IMAGE ANALYSIS FACILITIES
	OR			
2	DIGITAL FILE	1	1 HR	MSFC/TD53/TOM RIECKHOFF/256 544-7677
3	DIGITAL FILE	1	1 HR	JSC/SX/JON DISLER/281 483-5182
4	DIGITAL FILE	1	1 HR	KSC/NE-M7/TOM FORD/3211 861-3635
5	DIGITAL FILE	1	BY REQ ON REQUEST ONLY)	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/28/06

[PRD] DATABASE RECORD: 587923 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/28/06
INITIAL DATE: 06/28/06
ITEM NUMBER: KT124K DATE LAST CHANGED: 01/18/07
SECTION: 2800 TIME LAST CHANGED: 13:40:18

REQUESTER: KSC JSC
SUBREQUESTER: JSC/B-NS JSC/KX JSC/MV KSC/NE-M7
TEST CODE: KSC

ASSOCIATED DOC: 20028S
TRACKING NO. LSR06-6-6

1. DESCRIPTION: EHV227 - ORBITER LANDING ACQUISITION OF VIEW (AOV) OF VEHICLE (~LANDING -30 MINUTES) THRU LOSS OF VIEW (LOV). FOR NOMINAL AND CONTINGENCY EOM LANDINGS ONLY. HDTV TRACKING

CONTINUED

[PRD] DATABASE RECORD: 587923
ITEM NUMBER: KT124K

COVERAGE OF ORBITER DURING FINAL APPROACH FOR LANDING TO LOV. START CAMERA AT AOV. IN EVENT OF CREW EJECTION, CONTINUE TO TRACK VEHICLE. PRIMARY COVERAGE IS FOR RUNWAY 33 (NORTH) LANDING. ITEM NOT ACTIVATED FOR NIGHT LANDINGS.

LOCATION: KSC UCS-18/KTM
FIELD OF VIEW: ENTIRE ORBITER AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: HDTV (4-2-2)
F/L: AS REQUIRED TO MEET FIELD OF VIEW (COTS/ZOOM)
FPS: 60 FPS, PROGRESSIVE SCAN
FILM TYPE LOAD:
INTERVAL: AOV THRU HEADING ALIGNMENT CIRCLE OR LOV
F/T: T
EXP.: AUTO
TIMING: YES

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IMAGERY PLANNING INTEGRATION (IPI) CHAIR)/321 861-3644

TECHNICAL CONTACT: MSFC/TD53/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/SX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS: PROVIDE PHOTO COVERAGE OF ORBITER FROM ACQUISITION OF VEHICLE THROUGH LOV TO AID IN THE DETERMINATION OF ANOMALIES. FIELD OF VIEW (FOV) WILL BE THE ENTIRE ORBITER VIEW. ALL CAMERA POSITIONS ARE TO BE SITE SURVEYED. AZIMUTH AND ELEVATION OF CAMERA MOUNT WILL BE PROVIDED, (REF LLS3100,ITEM HT50EK, DBR 010634) AS WELL AS TIMING, (REF LLS3100, ITEM TH1.1EKXZ, DBR 227597). THE AZ/EL AND TIMING DATA SHOULD BE UPDATED FOR EACH FRAME.

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	DIGITAL FILE	1	2 HRS	KSC INTEGRATED IMAGERY SYSTEM (KIIS) MIRRORED SERVER (MS) FOR

CONTINUED

[PRD] DATABASE RECORD: 587923
ITEM NUMBER: KT124K

DISTRIBUTION TO THE IMAGE ANALYSIS FACILITIES

OR

2	DIGITAL FILE	1	2 HRS	MSFC/TD53/TOM RIECKHOFF/256 544-7677
3	DIGITAL FILE	1	2 HRS	JSC/SX/JON DISLER/281 483-5182
4	DIGITAL FILE	1	2 HRS	KSC/NE-M7/TOM FORD/321 861-3635
5	DIGITAL FILE	1	BY REQ (ON REQUEST ONLY)	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/28/06

[PRD] DATABASE RECORD: 587924 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/28/06
INITIAL DATE: 06/28/06
ITEM NUMBER: KT125K DATE LAST CHANGED: 01/18/07
SECTION: 2800 TIME LAST CHANGED: 13:40:49

REQUESTER: KSC JSC
SUBREQUESTER: JSC/B-NS JSC/KX JSC/MV KSC/NE-M7
TEST CODE: KSC

ASSOCIATED DOC: 20028S
TRACKING NO. LSR06-6-6

1. DESCRIPTION: EHV290 - ORBITER LANDING ACQUISITION OF VIEW (AOV) OF VEHICLE (~LANDING -30 MINUTES) THRU LOSS OF VIEW (LOV). FOR CONTINGENCY LANDINGS ONLY. HDTV TRACKING COVERAGE OF ORBITER DURING FINAL APPROACH FOR LANDING TO LOV. TRACKING COVERAGE OF ORBITER DURING APPROACH FOR LANDING TO/FROM 50 +/- MILES WEST. START CAMERA AT AOV. IN EVENT OF CREW EJECTION, CONTINUE TO TRACK VEHICLE. ITEM ACTIVATED ON AOV.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 587924
ITEM NUMBER: KT125K

LOCATION: KSC REMOTE TO ORLANDO-IFLOT
FIELD OF VIEW: ENTIRE ORBITER AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: HDTV (4-2-2)
F/L: AS REQUIRED TO MEET FIELD OF VIEW (NOMINALLY 80")
FPS: 60 FPS, PROGRESSIVE SCAN
FILM TYPE LOAD:
INTERVAL: AOV FOR APPROACH FOR LANDING TO LOV FOR CONTINGENCY LANDINGS ONLY
F/T: T
EXP.: AUTO
TIMING: YES

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IMAGERY PLANNING INTEGRATION (IPI) CHAIR)/321 861-3644

TECHNICAL CONTACT: MSFC/TD53/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/SX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS: PROVIDE PHOTO COVERAGE OF ORBITER FROM ACQUISITION OF VEHICLE THROUGH LOV TO AID IN THE DETERMINATION OF ANOMALIES. TRACKING COVERAGE OF ORBITER DURING APPROACH FOR LANDING TO/FROM 50 +/- MILES WEST. FIELD OF VIEW (FOV) WILL BE THE ENTIRE ORBITER VIEW. ALL CAMERA POSITIONS ARE TO BE SITE SURVEYED. AZIMUTH AND ELEVATION OF CAMERA MOUNT WILL BE PROVIDED, (REF LLS3100, ITEM HT50EK, DBR 010634) AS WELL AS TIMING, (REF LLS3100, ITEM TH1.1EKXZ, DBR 227597). THE AZ/EL AND TIMING DATA SHOULD BE UPDATED FOR EACH FRAME.

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	DIGITAL FILE	1	1 HR	KSC INTEGRATED IMAGERY SYSTEM (KIIS) MIRRORED SERVER (MS) FOR DISTRIBUTION TO THE IMAGE ANALYSIS FACILITIES

OR

CONTINUED

[PRD] DATABASE RECORD: 587924
ITEM NUMBER: KT125K

2	DIGITAL FILE	1	1 HR	MSFC/TD53/TOM RIECKHOFF/256 544-7677
3	DIGITAL FILE	1	1 HR	JSC/SX/JON DISLER/281 483-5182
4	DIGITAL FILE	1	1 HR	KSC/NE-M7/TOM FORD/3211 861-3635
5	DIGITAL FILE	1	BY REQ (ON REQUEST ONLY)	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/28/06

[PRD] DATABASE RECORD: 588877 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/16/06
INITIAL DATE: 08/16/06
ITEM NUMBER: KT126EGK DATE LAST CHANGED: 11/16/06
SECTION: 2800 TIME LAST CHANGED: 07:13:29

REQUESTER: KSC JSC
SUBREQUESTER: KICS-205
TEST CODE: LAUNCH PREFLT TVPLAN

ASSOCIATED DOC: 20007S
TRACKING NO. LSR06-8-1

1. DESCRIPTION: EXTERNAL TANK TV CAMERA SECURE FILE TRANSFER

RESPONSIBLE AGENCY: WLPS/MILA/PDL/JDMTA

WLPS AND MILA ARE REQUIRED, TO TRANSMIT ET TV DIGITAL IMAGES RECORDED ON QUBIT DS RECORDERS VIA ELECTRONIC FILE TRANSFER (WAVELET COMPRESSION TECHNIQUE REQUIRED) TO KSC EPOCC AND BE AVAILABLE FOR RETRIEVAL BY IMAGE ANALYSTS WITHIN 24 HOURS OF LAUNCH. JDMTA AND PDL ARE REQUIRED TO PROVIDE ET TV IMAGES ON REMOVABLE HARD DRIVES TO BE DELIVERED TO MILA FOR ELECTRONIC FILE TRANSFER TO KSC EPOCC.

CONTINUED

[PRD] DATABASE RECORD: 588877
ITEM NUMBER: KT126EGK

DIGITAL IMAGE TRANSFER WILL BE VIA SECURE FILE TRANSFER (PRIME) AND A HARD DRIVE (BACKUP) TO KSC. THE DIGITAL IMAGE FILE TRANSFER TO KSC WILL UTILIZE A NISN PIP SERVICE VIA WLPS TO KSC. MILA WILL UTILIZE A SECURE FILE TRANSFER FOR DIRECT TRANSFER OF DIGITAL IMAGES FROM THE MILA, PDL AND JDMTA RECORDING MEDIUM TO KSC EPOCC. DIGITAL IMAGES WILL BE COMPATIBLE WITH INTER-CENTER PHOTO WORKING GROUP (IPWG) FORMAT USED BY KSC, JSC AND MSFC IMAGE ANALYSIS LABS.

KSC EPOCC WILL CONFIGURE TO RECEIVE THE DIGITAL IMAGE SECURE FILES TRANSFERS FROM WLPS AND MILA AND TRANSFERS TO THE KSC IMAGE ANALYSIS LAB. KSC EPOCC WILL VERIFY QUALITY OF THE TRANSFERS TO INCLUDE VALIDATION OF CHECK SUM IMMEDIATELY FOLLOWING TRANSFER OF THE FILES.

TECHNICAL CONTACT: GSFC/FRED PIFER/HTSI 301 805-3335
KSC/ED PICCIOTTI/321 867-4500

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: JDMTA
RESPONDER: ALEX CARAZO/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/21/06

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/17/06
RESPONSE: NSR 31534

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/16/06

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3010 - REAL TIME FLIGHT CONTROL/SUPPORT CENTERS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 220720 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/09/97
INITIAL DATE: 04/24/89
ITEM NUMBER: K1HKTY DATE LAST CHANGED: 01/25/07
SECTION: 3010 TIME LAST CHANGED: 12:44:34

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L
TEST CODE: INFO KSC STSALL
TRACKING NO. COMREV05 DB98 KING2001 L8108 R109-63
R2802
PRIORITY: MANDATORY
RATIONALE: MISSION CRITICAL

1. DESCRIPTION: KSC LAUNCH CONTROL CENTER

OPERATIONS SUPPORT ROOM (OSR)

AN AREA CALLED THE OPERATIONS SUPPORT ROOM (OSR) WILL BE PROVIDED ON THE THIRD FLOOR OF THE LAUNCH CONTROL CENTER (LCC) FOR USE BY CENTER AND HEADQUARTERS SUPPORT PERSONNEL. THIS TECHNICAL MANAGEMENT AREA PROVIDES RAPID ACCESS TO SENIOR TECHNICAL MANAGEMENT SUPPORTING THE SHUTTLE LAUNCH. COMMUNICATIONS WILL BE PROVIDED TO KEEP PERSONNEL UPDATED ON CURRENT MISSION STATUS. SPECIFIC COMMUNICATIONS REQUIREMENTS WILL BE DOCUMENTED IN THE COMMUNICATIONS SECTION.

KSC/PH-L/TED MOSTELLER/321 861-9307

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z2801 Z8134

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z2801 Z8134

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3010 - REAL TIME FLIGHT CONTROL/SUPPORT CENTERS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 220720
ITEM NUMBER: K1HKTY

RESPONSE TRACKING: Z2801 Z8134

SUPPLIER: NASA HQ AGENCY: NASA/HQ (NASA HEADQUARTERS (WASHINGTON))

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z2801 Z8134

[PRD] DATABASE RECORD: 226671 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/09/97
INITIAL DATE: 03/04/91
ITEM NUMBER: Y3HKTY DATE LAST CHANGED: 01/25/07
SECTION: 3010 TIME LAST CHANGED: 12:44:56

REQUESTER: NASA HQ
SUBREQUESTER: KSC/MK-SIO M OSR1 OSR3
TEST CODE: INFO KSC STSALL
TRACKING NO. L3702 L4729 L8103 L8108 R109-63
R26247 R2802

1. DESCRIPTION: KSC LCC OSR

THE FOLLOWING SEAT ASSIGNMENTS ARE TO BE UTILIZED IN CONFIGURING COMMUNICATION AND DATA DISPLAY CAPABILITIES IN THE LCC OSR1/3. REFER TO COMMUNICATION SECTION FOR SPECIFIC REQUIREMENTS.
LAUNCH INTEGRATION CONTACT AT KSC: RANDALL L. SEGERT/MK-SIO/321 867-8250

OSR1/3 SEAT ASSIGNMENTS:

A1	DIRECTOR SHUTTLE PROCESSING
A2	APM GROUND OPERATIONS, USA
A3	USA DEPUTY PROGRAM MANAGER
A4	MANAGER, LAUNCH INTEGRATION
A5	WEATHER COORDINATOR
A6	DIRECTOR, FLIGHT CREW OPERATIONS
A7	MANAGER, SPACE SHUTTLE PROJECTS OFFICE, MSFC
A8	MANAGER, SS SR & QA
A9	USA ORBITER PROJECT
A10	MANAGER, VEHICLE ENGINEERING
A11	DDMS
A12	MANAGER, SSME PROJECT
A13	ROCKETDYNE

CONTINUED

[PRD] DATABASE RECORD: 226671
ITEM NUMBER: Y3HKTY

A14 MANAGER, REUSABLE SOLID ROCKET MOTOR PROJECT
A15 THIOKOL CORPORATION
A16 MANAGER, SOLID ROCKET BOOSTER PROJECT
A17 USA BOOSTER PROJECT (USA SRB)
A18 MANAGER, EXTERNAL TANK PROJECT
A19 LOCKHEED-MARTIN MANNED SPACE SYSTEMS

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z2801 Z8134

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 KICS-105 PH-B

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z2801 Z8127 Z8134

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
SUBSUPPLIER: Z2801 Z8134

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z2801 Z8134

SUPPLIER: NASA HQ AGENCY: NASA HQ. ( )

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z2801 Z8134

[PRD] DATABASE RECORD: 239294 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/09/97
INITIAL DATE: 04/24/89
ITEM NUMBER: Y4HKTY DATE LAST CHANGED: 01/25/07
SECTION: 3010 TIME LAST CHANGED: 12:45:56

REQUESTER: NASA HQ
SUBREQUESTER: KSC/MK-SIO M OMR1 OMR3
TEST CODE: INFO KSC STSALL

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3010 - REAL TIME FLIGHT CONTROL/SUPPORT CENTERS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 239294
ITEM NUMBER: Y4HKTY

TRACKING NO. KING2001 L4729 L8103 L8108 R109-63
R26247 R26284 R2802

1. DESCRIPTION: KSC LCC OMR

THE FOLLOWING SEAT ASSIGNMENTS ARE TO BE UTILIZED IN CONFIGURING COMMUNICATION AND DATA DISPLAY CAPABILITIES IN THE LCC OMR1/3. REFER TO COMMUNICATION SECTION FOR SPECIFIC REQUIREMENTS.
LAUNCH INTEGRATION CONTACT AT KSC: RANDALL L. SEGERT/MK-SIO/321 867-825

OMR1/3 SEAT ASSIGNMENTS:

A1	DEPUTY AA/OSF
A2	MANAGER, SPACE SHUTTLE PROGRAM
A3	ASSOC ADMINISTRATOR, OSF
A4	DIRECTOR, JSC
A5	DIRECTOR, KSC
A6	VACANT
A7	DIRECTOR, MSFC
A8	DIRECTOR, SSC
A9	DEPUTY AA FOR SPACE OPERATIONS
A10	PROGRAM MANAGER, USA
A11	ASSOC ADMINISTRATOR, S&MA
A12	BOEING, ISS
A13	MANAGER, SPACE STATION PROGRAM
A14	DEPUTY AA FOR SPACE DEVELOPMENT
A15	DEPUTY DIRECTOR, JSC
A16	DIRECTOR, SPACEPORT SERVICES
A17	NASA CHIEF MEDICAL OFFICER
A18	DIRECTOR, SPACE & LIFE SCIENCES, JSC
A19	DIRECTOR, KSC PUBLIC AFFAIRS
A20	ASSOC ADMINISTRATOR, PUBLIC AFFAIRS

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z2801 Z8134

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3010 - REAL TIME FLIGHT CONTROL/SUPPORT CENTERS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 239294
ITEM NUMBER: Y4HKTY

SUBSUPPLIER: I-IT-D2 KICS-105 PH-B

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z2801 Z8127 Z8134

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/286 483-0572

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z2801 Z8134

SUPPLIER: NASA HQ AGENCY: NASA/HQ (NASA HEADQUARTERS (WASHINGTON))

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z2801 Z8134

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3020 - REAL TIME DISPLAYS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 13716 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/30/00
INITIAL DATE: 01/05/88
ITEM NUMBER: K1.1DEGHKTXYZ DATE LAST CHANGED: 05/30/07
SECTION: 3020 TIME LAST CHANGED: 10:33:02

REQUESTER: KSC
SUBREQUESTER: ESA FR1/2/3/4 I-PH-B JSC/B-NS
OMR1/3/4 OSR1/3/4
TEST CODE: EAFB INFO KSC STSALL

TRACKING NO. A106-1 DB98 KING2001 L04-2-1 L6013
L8108 R0402-1 R109-42 R26247 R2655
R2802 R2890
PRIORITY: REQUIRED
RATIONALE: INFORMATION

1. DESCRIPTION: LC-39 FR 2, 3 & 4 OIS-D CHANNELIZATION MATRIX

OIS-CHANNEL-TITLE
111 SUP TEST MGR
112 CALIBRATION
113 N-A
114 JBOSC TC
115 CT OPS
116 STRUCTURES
117 OIS CONTROL
118 QUALITY
121 CCS INTG
122 CCS PNEU HVAC
123 CCS FIREX/IND WTR
124 CCS HVAC
125 CCS ELECT PWR
126 S/W ENG S/W C/O CCMS CCC
127 CCMS MASTER CONS
128 CCMS MAINT & TESTING
131 CR COORD & B/U
132 OTC
133 PAYLOAD MGT 3
134 PTC/AFT1
135 LRD
136 TBC
137 ET/SRB OPS (BTC FOR MSN B)

CONTINUED

[PRD] DATABASE RECORD: 13716
ITEM NUMBER: K1.1DEGHKTXYZ

138 OTV CONTROL
141 G&N
142 MECH & ARMS
143 ECLSS-1
144 INTEGRATED TEST/AFT2
145 ORB INST
146 SSME SSMEC
147 HYGL FUEL-1
148 ESMS/PMS CAL OPS
151 EPDC
152 DPS
153 FUEL CELLS
154 INTEG TEST/AFT3
155 ORBITER COMM
156 LO2
157 HYGL OXID-1
158 LPS ESMS/PMS MAINT
161 PE-1
162 SOFTWARE
163 KSC/JSC BIOMED
164 PAYLOAD-1/PPD
165 P/L ELEC CPLE
166 LH2
167 OIS (SEE NOTE)
168 MPS
171 FLIGHT CONT
172 ECS-1
173 NAV AIDS
174 PAYLOAD-2/AFT5
175 R/S & SRB INST
176 ET ELECT
177 HGDS
178 PHOTO/TIMING VAL/OPS MAIN
181 N-A
182 HYD/ORB
183 N-A
184 PAYLOAD-3/AFT6
185 N-A
186 ET PNEU

CONTINUED

[PRD] DATABASE RECORD: 13716
ITEM NUMBER: K1.1DEGHKTXYZ

187 HYD/SRB
188 PAD GSE ELECT
211 ORBITER UHF
212 A/G #1
213 A/G #2
214 IC-A
215 IC-B
216 JSC/B-NS COORD (N/A MSN B)
217 GSFC GCN-1 (MON)(N/A MSN B)
218 GSFC GCN-2 (MON)(N/A MSN B)
219 GCN-3 (MON)
221 SAFETY
222 ET ICE
223 ASSIGNED BY PH-L/NTD
224 ASSIGNED BY PH-L/NTD
225 ASSIGNED BY PH-L/NTD
226 ASSIGNED BY PH-L/NTD
227 ASSIGNED BY PH-L/NTD
228 ASSIGNED BY PH-L/NTD
229 ASSIGNED BY PH-L/NTD
230 ASSIGNED BY PH-L/NTD
231 WX & TRBL (ASSIGNED BY TD/NTD MSN B
232 PH-L/NTD
233 QUALITY/AFT7
234 PAYLOAD 4/AFT8
235 MSN AUDIO (MON)
236 CIG
237 N-A
238 RPS OPS/MAINT
241 SATELLITE TV/WEATHER
242 ECS-2
243 ECLSS-2
244 TRBL SHOOTING/AFT9
245 ESA
246 SCO/FORWARD SHOP COORD
247 HYGL FUEL-2
248 N-A
251 EPDC B/U
252 ORB INST B/U

CONTINUED

[PRD] DATABASE RECORD: 13716
ITEM NUMBER: K1.1DEGHKTXYZ

253 ECLSS-3 COMMON
254 PAYLOAD-4/PL4
255 N-A
256 N-A
257 HYGL OXID-2
258 CDS OPS/MAINT
261 CRYO COORD
262 PE B/U
263 MSFC COORD (N/A MSN B)
264 PAYLOAD-5/PL5
265 N-A
266 S&MA
267 N-A
268 VIDEO MAINT
288 INCS
322 ETL ICE

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 05/30/00
RESPONSE TRACKING: Z2801 Z8134

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 05/30/00
RESPONSE TRACKING: Z2801 Z8134

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 05/30/00
RESPONSE:

RESPONSE TRACKING: Z2801 Z8134

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)

CONTINUED

[PRD] DATABASE RECORD: 13716
ITEM NUMBER: K1.1DEGHKTXYZ

RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 05/30/00
RESPONSE TRACKING: Z2801 Z8134

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 KICS-105

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 05/30/00
RESPONSE TRACKING: Z2801 Z8134

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/286 483-0572

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 05/30/00
RESPONSE TRACKING: Z2801 Z8134

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 05/30/00
RESPONSE TRACKING: Z2801 Z8134

SUPPLIER: NASA HQ AGENCY: NASA/HQ (NASA HEADQUARTERS (WASHINGTON))

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 05/30/00
RESPONSE TRACKING: Z2801 Z8134

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 05/30/00
RESPONSE TRACKING: Z2801 Z8134

[PRD] DATABASE RECORD: 24257 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/06/05
INITIAL DATE: 12/07/90
ITEM NUMBER: K1.1.1K DATE LAST CHANGED: 01/04/07

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3020 - REAL TIME DISPLAYS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 24257
ITEM NUMBER: K1.1.1K

SECTION: 3020 TIME LAST CHANGED: 11:18:06

REQUESTER: KSC
SUBREQUESTER: I-PH-B JSC KSC/MK-SIO MSFC
NASA HQ OMR1/3/4 OSR1/3/4
TEST CODE: MMT SIM S5022.200 STSALL

ASSOCIATED DOC: 20007S 20014S 20017S 20037S
25022S
TRACKING NO. A106-1 COMREV05 DB98 KING2001 L04-2-1
L3916 L4933 L5024 L5705 L5803
R0402-1 R0505-1 R109-42 R3903 R3909
R3916 R3927 R4421
PRIORITY: MANDATORY
RATIONALE: CONFIGURATION OF FIRING ROOM CONSOLES

1. DESCRIPTION: OSR1/3, OIS-D COMM, CONSOLE CONFIGURATION

CONSOLE POSITIONS A1 THRU A19

	KSC L&L	MSFC SPR	DDS OPS GRD	DSS OPS SCS	WCC OPS DOM	FCO DOM	USA SFA DOM	SRM&QA QAE	LSOC OPS	ORB IDR	BSM SYS	SSME DYN	RKT MGR NOL	THIOKOL	SRB	USBI	ET	MMC
CIRCUIT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
6001 FLT DIR	M	M	T	T	T	T	M	M	M	T	M	M	M	M	M	M	M	M	M
6002 SSPO	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
6003 OPO	T	T	T	T	T	T	M	T	T	T	T	M	M	M	M	M	M	M	M
6004 STF ENGR	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
6006 SRM&QA	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
6011 LFP-1	M	M	M	T	T	M	M	M	M	M	M	M	M	M	M	M	M	M	M
6013 IMAGERY INTEG	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3020 - REAL TIME DISPLAYS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 24257
ITEM NUMBER: K1.1.1K

6014	FSW MGMT	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
6015	USA INTEG	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
6016	SAFE OPS	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
6017	RADAR SYS	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
6018	MER COORD	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
6235	PRESS CONF	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
6311/331	ORB UHF				M	M	M												
6317	GCN-1	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
6318	GCN-2/3	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
6501	ET HOSC	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
6502	SRB HOSC	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
6503	SSME HOSC	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
6504	MPS HOSC	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
6505	SRM HOSC	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
6600	PROG MGR										T								
9031	CNV CMD	M	M	M	T	T	M	M	M	M	M	M	M	M	M	M	M	M	M
9105	SAFETY	T			T	T													
9205	SAF/SEC	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
9900	KSC WX VHF	M	M	M	T	T	T	M	M	M	M	M	M	M	M	M	M	M	M
9901	SRB RET	M	M	M	M	M		M	M	M	M	M	M	M	M	M	M	M	M
9908	TAL AC ORB	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
111	TSM	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
117	OIS CONT	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
127	CCMS CONS	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
132	OTC	T	M	M	T	T	M	M	M	T	T	M	M	M	M	M	M	M	M
133	PTD/AFTD	T	M	M	T	T	M	T	T	T	T	M	M	M	M	M	M	M	M
134	PTC/AFT 1	T	M	M	T	T	M	T	T	T	T	M	M	M	M	M	M	M	M
135	LRD	T	T	T	T	T	T	M	M	T	T	T	M	T	T	T	T	T	T
136	TBC	T	M	M	T	T	M	M	M	T	T	M	M	M	M	M	M	M	M
138	OTV CONT	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
141	G&N	M	M	M	T	T	M	M	M	M	T	M	M	M	M	M	M	M	M
142	MECH&ARMS	M	M	M	T	T	M	M	M	M	T	M	M	M	M	M	M	M	M
143	ECLSS-1	M	M	M	T	T	M	M	M	M	T	T	M	M	M	M	M	M	M
144	INT AFT-2	M	M	M	T	T	M	M	M	M	M	T	M	M	M	M	M	M	M
145	ORB INST	M	M	M	T	T	M	M	M	M	T	T	M	M	M	M	M	M	M
146	SSME/SSMEC	M	M	M	T	T	M	M	M	M	T	T	M	M	M	M	M	M	M
147	HYGL FUEL1	M	M	M	T	T	M	M	M	M	M	M	M	M	M	M	M	M	M
151	EPDC	M	M	M	T	T	M	M	M	M	T	M	M	M	M	M	M	M	M

CONTINUED

[PRD] DATABASE RECORD: 24257
ITEM NUMBER: K1.1.1K

152	DPS	M	M	M	T	T	M	M	M	M	T	M	M	M	M	M	M	M	M
153	FUEL CLS	M	M	M	T	T	M	M	M	M	T	M	M	M	M	M	M	M	M
154	INT AFT-3	M	M	M	T	T	M	M	M	M	M	M	M	M	M	M	M	M	M
155	ORB COMM	M	M	M	T	T	M	M	M	M	T	M	M	M	M	M	M	M	M
156	LO2	T	T	M	T	T	M	M	M	T	T	M	M	M	M	M	M	M	M
157	HYGL OX-1	M	M	M	T	T	M	M	M	M	M	M	M	M	M	M	M	M	M
161	PE-1	T	T	T	T	T	T	M	M	T	T	T	T	T	T	T	T	T	T
163	BIOMED	M	M	M	T	T	M	M	M	M	T	M	M	M	M	M	M	M	M
164	PL-1/AFT-4	M	M	M	T	T	M	M	M	M	M	M	M	M	M	M	M	M	M
166	LH2	T	M	M	T	T	M	M	M	T	T	M	M	M	M	M	M	M	M
168	MPS	M	M	M	T	T	M	M	M	M	T	M	M	M	M	M	M	M	M
171	FLT CONT	M	M	M	T	T	M	M	M	M	T	M	M	M	M	M	M	M	M
172	ECS-1	M	M	M	T	T	M	M	M	M	T	M	M	M	M	M	M	M	M
173	NAV AIDS	M	M	M	T	T	M	M	M	M	T	M	M	M	M	M	M	M	M
174	PL-2/AFT-5	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
175	R/S&SRB IN	M	M	M	T	T	M	M	M	M	T	M	M	M	M	M	M	M	M
176	ET ELECT	M	M	M	T	T	M	M	M	M	M	M	M	M	M	M	M	M	M
177	HGDS	M	M	M	T	T	M	M	M	M	T	M	M	M	M	M	M	M	M
182	HYD/ORB	M	M	M	T	T	M	M	M	M	T	M	M	M	M	M	M	M	M
184	PL-3/AFT-6	M	M	M	T	T	M	M	M	M	M	M	M	M	M	M	M	M	M
186	ET PNEU	M	M	M	T	T	M	M	M	M	M	M	M	M	M	M	M	M	M
187	HYD/SRB	M	M	M	T	T	M	M	M	M	M	M	M	M	M	M	M	M	M
211	ORB UHF	M	M	M	T	T	M	M	M	M	T	M	M	M	M	M	M	M	M
212	A/G-1	M	M	M	T	T	M	M	M	M	T	M	M	M	M	M	M	M	M
213	A/G-2	M	M	M	T	T	M	M	M	M	T	M	M	M	M	M	M	M	M
214	IC-A	M	M	M	T	T	M	M	M	M	M	M	M	M	M	M	M	M	M
215	IC-B	M	M	M	T	T	M	M	M	M	M	M	M	M	M	M	M	M	M
216	JSC/B-NS	T	T	T	T	T	T	M	M	T	T	T	T	T	T	T	T	T	T
221	SAFETY	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
222	ET ICE	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
231	WX & TRBL	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
232	PH-M/NTD	T	M	M	T	T	M	M	M	T	M	M	M	M	M	M	M	M	M
233	QAL AFT-7	M	M	M	T	T	M	M	M	M	T	M	M	M	M	M	M	M	M
234	PL-4/AFT-8	M	M	M	T	T	M	M	M	M	M	M	M	M	M	M	M	M	M
235	MSN AUD PR	M	M	M	T	T	M	M	M	M	M	M	M	M	M	M	M	M	M
244	TRBL AFT-9	M	M	M	T	T	M	M	M	M	M	M	M	M	M	M	M	M	M
245	ESA	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
254	PL-5/AFT10	M	M	M	T	T	M	M	M	M	M	M	M	M	M	M	M	M	M
261	PE-2/ESA	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T

CONTINUED

[PRD] DATABASE RECORD: 24257
ITEM NUMBER: K1.1.1K

263	MSFC COORD	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
264	PL-5/AFT11	M	M	M	T	T	M	M	M	M	M	M	M	M	M	M	M	M	M

POSITIONS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
OIS-D UNIT	51	51	51	51	51	51	51	51	51	51	52	52	52	52	52	52	52	52	52

OIS CHANNELS TO BE FROM APPLICABLE CONTROL ROOM.

PHONE SERVICE: KSC 867/861 PBX W/ CAPABILITY IS REQUIRED.

DATA DISPLAY: REQUIRE CAPABILITY IN THE AREA TO VIEW LPS DATA DISPLAYS.

NOTE 1: ALL CONSOLES IN THE APPLICABLE OSR1/3 ARE TO BE UP FOR THE TESTS SHOWN IN THE TEST CODE BLOCK. OTHER REQUIREMENTS FOR THE OSR WILL BE REQUESTED ON A TEST BY TEST BASIS.

NOTE 2: ANY CHANGES TO THIS REQUIREMENT MUST BE APPROVED BY NASA HQ-MK CONTACT IS RANDALL SEGERT/KSC-MK-SIO/321 867-8250.

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/06/05
RESPONSE TRACKING: Z3921 Z3930 Z3953 Z4422 Z4934
Z5041 Z5705 Z5816

[PRD] DATABASE RECORD: 24268
DOCUMENT ID: LLS
ITEM NUMBER: K1.1.2K
SECTION: 3020

REQUIREMENT STATUS: APPROVED
APPROVAL DATE: 05/06/05
INITIAL DATE: 12/07/90
DATE LAST CHANGED: 12/21/06
TIME LAST CHANGED: 09:42:44

REQUESTER: KSC
SUBREQUESTER: DDMS I-PH-B JSC KSC/MK-SIO

CONTINUED

[PRD] DATABASE RECORD: 24268
ITEM NUMBER: K1.1.2K

TEST CODE:	MSFC DFRC STSALL	NASA HQ MMT SIM	OSR1/3/4 S0026.200	S0026.300
ASSOCIATED DOC:	20007S 20037S	20014S	20017S	20026S
TRACKING NO.	A106-1 L3916 R109-42	COMREV05 L4907 R3903	DB98 L5803 R3909	KING2001 R0402-1 R3927	L04-2-1 R0505-1 R4421
PRIORITY:	MANDATORY				
RATIONALE:	CONFIGURATION OF FIRING ROOM CONSOLES.				

1. DESCRIPTION: OMR1/3, OIS-D COMM, CONSOLE CONFIGURATION

CONSOLE POSITIONS A1 THRU A20

DESP ARAO/OSF	SAE P/AOD RSF GMR	ALE AR DSC ENT ERD IR	DIE RRC MSS SFC	DIE RPS AGC ERS OPS	USA PAR OSG PAM CGR	S&M AMA	BOE IGS IS IS	NAS AIS AIS	NAS ASP CPA CEE EDV LSE RVC	DIR SPA CEP POR TES	NAS ASC HIE CEE FDE OFC RCI	DIS PAC AIL MIF	KCP AOC EL	NAS HQS PAE					

CIRCUITS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
6001 FLT DIR	M	M	T	M	T	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
6002 SSPO	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	M	M

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3020 - REAL TIME DISPLAYS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 24268
ITEM NUMBER: K1.1.2K

6003	OPO	M	M	T	T	T	T	T	T			T	T	M	M	M	M	M	M			
6004	STAFF ENGR	M	M	T	M	M	M	M	M			M		M	M	M	M	M	M			
6006	SRM & QA	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T			
6011	LFP-1	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	
6013	IMAGE INTEG	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T		
6014	FSW MGMT	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T		
6015	USA INTEG	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T		
6016	SAFE OPS	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T		
6017	RADAR SYS	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T		
6018	MER COORD	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T		
6101	MSN AUDIO	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	
6104																				T	T	
6105																				T	T	
6235	PRESS CONF	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M			
6317	GCN-1	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	
6318	GCN-2	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	
6401	DOD PATCH-1			M		M				T	T											
6402	DOD PATCH-2			M		M				T	T											
6403	DDMS COORD			M		M				T	T											
6501	ET HOSC	M	M	M	M	M	T	M	M			M	M	M	M	M	M	M	M			
6502	SRB HOSC	M	M	M	M	M	T	M	M			M	M	M	M	M	M	M	M			
6503	SSME HOSC	M	M	M	M	M	T	M	M			M	M	M	M	M	M	M	M			
6504	MPS HOSC	M	M	M	M	M	T	M	M			M	M	M	M	M	M	M	M			
6505	SRM HOSC	M	M	M	M	M	T	M	M			M	M	M	M	M	M	M	M			
6600	PROG MGR	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T			
6601	P/L TK-1											T	T									
6602	P/L TK-2											T	T									
6800	SFOC MGMT.									M												
9031	CONV CMDR	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M			
9205	SAF/SEC	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M			
9900	KSC WX VHF	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M			
9901	SRB RETVL	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M			
9908	TAL ACFT ORB	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M			
111	SUP TEST MGR	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
117	OIS CONTROL	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
127	CCMS CONS	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	M	M	
132	OTC	M	M	T	M	T	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	
133	PTD/AFTD	M	M	T	M	T	M	M	M	M	M	M	M	T	T	M	M	M	M	M	M	

CONTINUED

[PRD] DATABASE RECORD: 24268
ITEM NUMBER: K1.1.2K

134	PTC/AFT-1	M	M	T	M	T	M	M	M	M	M	T	T	M	M	M	M	M	M	M
135	LRD	M	M	T	M	T	T	M	M	M	M	M	M	M	M	M	M	M	M	M
136	TBC	M	M	T	M	T	M	M	M	M	M	M	M	M	M	M	M	M	M	M
138	OTV CONTROL	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
141	G & N	M	M	M	M	T	M	M	M	M	M	M	M	M	M	M	M	M	M	M
142	MECH & ARMS	M	M	M	M	T	M	M	M	M	M	M	M	M	M	M	M	M	M	M
143	ECLSS-1	M	M	M	M	T	M	M	M	M	M	M	M	M	M	M	M	M	M	M
144	INTG AFT-2	M	M	M	M	T	M	M	M	M	M	M	M	M	M	M	M	M	M	M
145	ORB INST	M	M	M	M	T	M	M	M	M	M	M	M	M	M	M	M	M	M	M
146	SSME/SSMEC	M	M	M	M	T	M	M	M	M	M	M	M	M	M	M	M	M	M	M
147	HYGL FUEL-1	M	M	M	M	T	M	M	M	M	M	M	M	M	M	M	M	M	M	M
151	EPDC	M	M	M	M	T	M	M	M	M	M	M	M	M	M	M	M	M	M	M
152	DPS	M	M	M	M	T	M	M	M	M	M	M	M	M	M	M	M	M	M	M
153	FUEL CELLS	M	M	M	M	T	M	M	M	M	M	M	M	M	M	M	M	M	M	M
154	INTG AFT-3	M	M	M	M	T	M	M	M	M	M	M	M	M	M	M	M	M	M	M
155	ORB COMM	M	M	M	M	T	M	M	M	M	M	M	M	M	M	M	M	M	M	M
156	LO2	M	M	T	M	T	M	M	M	M	M	M	M	M	M	M	M	M	M	M
157	HYGL OXID-1	M	M	M	M	T	M	M	M	M	M	M	M	M	M	M	M	M	M	M
161	PE-1	M	M	T	M	T	T	M	M	M	M	M	M	M	M	M	M	M	M	M
163	BIOMED	M	M	M	M	T	M	M	M	M	M	M	M	M	M	M	M	M	M	M
164	PL-1/AFT-4	M	M	M	M	T	M	M	M	M	M	M	M	M	M	M	M	M	M	M
166	LH2	M	M	T	M	T	M	M	M	M	M	M	M	M	M	M	M	M	M	M
168	MPS	M	M	M	M	T	M	M	M	M	M	M	M	M	M	M	M	M	M	M
171	FLT CONTROL	M	M	M	M	T	M	M	M	M	M	M	M	M	M	M	M	M	M	M
172	ECS-1	M	M	M	M	T	M	M	M	M	M	M	M	M	M	M	M	M	M	M
173	NAV AIDS	M	M	M	M	T	M	M	M	M	M	M	M	M	M	M	M	M	M	M
174	PL-2/AFT-5	M	M	T	M	T	T	M	M	M	M	M	T	T	M	M	M	M	M	M
175	RS&SRB INST	M	M	M	M	T	M	M	M	M	M	M	M	M	M	M	M	M	M	M
176	ET ELECT	M	M	M	M	T	M	M	M	M	M	M	M	M	M	M	M	M	M	M
177	HGDS	M	M	M	M	T	M	M	M	M	M	M	M	M	M	M	M	M	M	M
182	HYD/ORB	M	M	M	M	T	M	M	M	M	M	M	M	M	M	M	M	M	M	M
184	PL-3/AFT-6	M	M	M	M	T	M	M	M	M	M	M	M	M	M	M	M	M	M	M
186	ET PNEU	M	M	M	M	T	M	M	M	M	M	M	M	M	M	M	M	M	M	M
187	HYD/SRB	M	M	M	M	T	M	M	M	M	M	M	M	M	M	M	M	M	M	M
211	ORB UHF	M	M	M	M	T	M	M	M	M	M	M	M	M	M	M	M	M	M	M
212	A/G-1	M	M	M	M	T	M	M	M	M	M	M	M	M	M	M	M	M	M	M
213	A/G-2	M	M	M	M	T	M	M	M	M	M	M	M	M	M	M	M	M	M	M
214	IC-A	M	M	M	M	T	M	M	M	M	M	M	M	M	M	M	M	M	M	M
215	IC-B	M	M	M	M	T	M	M	M	M	M	M	M	M	M	M	M	M	M	M

CONTINUED

[PRD] DATABASE RECORD: 24268
ITEM NUMBER: K1.1.2K

216	JSC/B-NS CD	M	M	T	M	T	T	M	M	M	M	M	M	M	M	M	M	M	M
221	SAFETY	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
222	ET ICE	M	M	T	M	T	T	M	M	M	M	M	T	T	M	M	M	M	M
231	WX & TRBL	M	M	T	M	T	T	M	M	M	M	M	T	T	M	M	M	M	M
232	PH-M/NTD	M	M	T	M	T	M	M	M	M	M	M	M	M	M	M	M	M	M
233	QUAL/AFT-7	M	M	M	M	T	M	M	M	M	M	M	M	M	M	M	M	M	M
234	LP-4/AFT-8	M	M	M	M	T	M	M	M	M	M	M	M	M	M	M	M	M	M
244	TRBL/AFT-9	M	M	M	M	T	M	M	M	M	M	M	M	M	M	M	M	M	M
245	ESA	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	M	M
254	PL-5/AFT-10	M	M	M	M	T	M	M	M	M	M	M	M	M	M	M	M	M	M
261	PE-2/ESA	M	M	T	M	T	T	M	M	M	M	M	T	T	M	M	M	M	M
263	MSFC COORD	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	M	M
264	PL-6/AFT-11	M	M	M	M	T	M	M	M	M	M	M	M	M	M	M	M	M	M

POSITIONS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
OIS-D UNIT	52	52	51	52	51	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52

OIS CHANNELS TO BE FROM APPLICABLE CONTROL ROOM.

PHONE SERVICE: KSC 867/861 PBX W/ CAPABILITY IS REQUIRED.

DATA DISPLAY: REQUIRE CAPABILITY IN THE AREA TO VIEW LPS DATA DISPLAYS.

NOTE 1: ALL CONSOLES IN THE APPLICABLE OMR1/3 ARE TO BE UP FOR THE TESTS SHOWN IN THE TEST CODE BLOCK. OTHER REQUIREMENTS FOR THE OMR WILL BE REQUESTED ON A TEST BY TEST BASIS.

NOTE 2: ANY CHANGES TO THIS REQUIREMENT MUST BE APPROVED BY NASA HQ-MK CONTACT IS RANDALL SEGERT/KSC-MK-SIO/321 867-8250.

COMM CONTACT: KSC/MONIQUE MCLAMB/321 867-8540

TECHNICAL CONTACT: DDMS-0/321-494-8581

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/06/05

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3020 - REAL TIME DISPLAYS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 24268
ITEM NUMBER: K1.1.2K

RESPONSE TRACKING: Z3917 Z3930 Z3953 Z4422 Z4904
Z5816

[PRD] DATABASE RECORD: 297234 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/28/89
INITIAL DATE: 06/28/89
ITEM NUMBER: Y35K DATE LAST CHANGED: 06/06/07
SECTION: 3020 TIME LAST CHANGED: 07:56:52

REQUESTER: NASA HQ
SUBREQUESTER: KSC/MK-SIO M OMR1 OMR3
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 R109-42 R2890

1. DESCRIPTION: AUDIO REQUIREMENT PAO-NASA HQ - OMR1/3.

REQUEST ACTION BE TAKEN TO INSTALL AN OIS UNIT IN THE CONSOLE OF MS. L. BAEDER, WASHINGTON, PAO OMR1/3. MS. L. BAEDER REQUIRES SAME AUDIO CHANNELS AS MR. H. HARRIS, PA.

MS. L. BAEDER REQUIRES CAPABILITY TO TRANSMIT AND RECEIVE ON THIS UNIT IN THE EVENT OF CRISES SITUATION TO RESOLVE AND CONTROL QUESTIONS PRESENTED TO PAO PERSONNEL.

SPECIFIC CONSOLE CONFIGURATION IS DOCUMENTED IN THE KPRD.
SEE SECTION 2750, ITEM K5.19K, DBR 010444 & K5.20K, DBR 010445.

TECHNICAL CONTACT: WILLIAM JOHNSON/XA-E1/321 867-2468

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/28/89
RESPONSE TRACKING: Z2871

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3020 - REAL TIME DISPLAYS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 281497 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/28/89
INITIAL DATE: 06/28/89
ITEM NUMBER: E36K DATE LAST CHANGED: 12/07/05
SECTION: 3020 TIME LAST CHANGED: 08:23:18

REQUESTER: ER
SUBREQUESTER: 45 SPW/SEO LCC1 LCC3
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 R109-42 R2719 R2890

1. DESCRIPTION: RANGE SAFETY REP. (RSR) CONS 0124A1/0624A1 - LCC1/3
STA 102-26/107-26

ER RANGE SAFETY REQUIRES ONE RSR POSITION AT THE RSR CONSOLE 0124A1/0624A1 IN THE LCC1/3 RESPECTIVELY TO PARTICIPATE IN THE RANGE SAFETY SYSTEM CHECKOUT DURING LAUNCH COUNTDOWN THROUGH MECO. ONE RSR ASSISTANT POSITION IS REQUIRED ADJACENT TO THE PRIMARY RSR.

1. TELEMETRY DISPLAY
REALTIME S-BAND TELEMETRY OF FLIGHT TERMINATION PARAMETERS DISPLAYED AND RECORDED.

2. COMMUNICATIONS
A. 2-OIS 52 UNITS, ONE EXISTING AND SHARED WITH CBRS, ONE NON-SHARED DUAL LOOP ACCESS.
B. POINT-TO-POINT, CCAFS FCO/SRO TO KSC RSR.
C. TELEPHONE.

3. HOLDFIRE
CAPABILITY TO STOP SEQUENCER AT COMPLEX 39

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/28/89
RESPONSE TRACKING: Z2713 Z2871

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3020 - REAL TIME DISPLAYS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 346742 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/28/89
INITIAL DATE: 06/28/89
ITEM NUMBER: T37K DATE LAST CHANGED: 06/06/07
SECTION: 3020 TIME LAST CHANGED: 07:57:30

REQUESTER: JSC
SUBREQUESTER: FR3 JSC/SD2 M
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 L2733 R109-42 R2890

1. DESCRIPTION: JSC CREW PHYSICIAN'S (BIOMED) CONSOLE - LCC1/3

JSC REQUIRES A CONSOLE POSITION IN THE ACTIVE LCC CR FOR THE JSC CREW PHYSICIAN. THE PHYSICIAN WILL SHARE THIS BIOMED CONSOLE WITH THE EMS COORDINATOR AND THE KSC BIOMEDICAL ENGINEER.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 JJ-3 KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/28/89
RESPONSE TRACKING: Z2753 Z2871

[PRD] DATABASE RECORD: 24313 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/11/05
INITIAL DATE: 04/12/91
ITEM NUMBER: T44.1K DATE LAST CHANGED: 06/06/07
SECTION: 3020 TIME LAST CHANGED: 07:58:17

REQUESTER: JSC
SUBREQUESTER: I-PH-B M
TEST CODE: DFRC FR2 S0026.200 S0026.300
STSALL

ASSOCIATED DOC: 20007S 20014S 20017S 20026S
20037S 20044S
TRACKING NO. A106-1 KING2001 L04-2-1 L3916 L501-1
L501-2 L506-2 L6301 L6304 L6709
L6710 R0402-1 R0505-1 R109-42 R5806
SHAW95

CONTINUED

[PRD] DATABASE RECORD: 24313
ITEM NUMBER: T44.1K

PRIORITY: MANDATORY
RATIONALE: MISSION SUCCESS

1. DESCRIPTION: JSC CONSOLES - LCC2

PR0VIDE CONSOLES WITH OIS-D UNITS CONFIGURED AS FOLLOWS:

REF	FUNCTION	CONS #	STATION #	OIS-D UNIT
1	JSC/B-NS LSS PROP	0215A8	100-6D	52 NOTE 1
2	JSC RES MGR	0232A1	100-31	51
3	JSC/B-NS PROJ MGR	0232A8	100-51	52
4	JSC RES MGR	0232A11	102-51	51
5	JSC/B-NS	0247A4	100-4F	51
6	JSC/B-NS	0247A7	101-6C	51
7	JSC/B-NS LSS MGT	0248A4 TBLE	100-4D	52
8	JSC/B-NS	0256A3	102-70	51
9	JSC/B-NS PROJ ENGR	0256A4	100-14	51 NOTE 2
10	JSC MER/B-NS	0232A7	103-2D	52

NOTE 1: IN ADDITION TO THE 4 JACKS ON THIS UNIT, REQUIRE A 20' EXT. BOX WITH 2 JACKS.
NOTE 2: IN ADDITION TO THE 2 JACKS ON THIS UNIT, REQUIRE CONNECTION CAPABILITY FOR 4 OTHER HEADSETS.
NOTE 3: o TELEPHONE SERVICE W/ CAPABILITY REQUIRED IN THE AREA.
o CONSOLES TO HAVE ACCESS TO TEST AND CHECKOUT DATA VIA KEYBOARD AND CRT.

OIS-D CONFIGURATION FOR THE ABOVE CONSOLES:

REF	CHANNEL	CAP	TEST CODE
1	6001 FLT DIR	* M	7,14
2	6002 SSPO	T	7,14,17,37,44
3	6003 OPO	T	7,14,17,37,44
4	6004 STAFF ENGR	T	7,14,17,37,44
5	6006 SRM & QA COORD	* M	7,14,17,37,44
6	6013 IMAGERY INTEG	T	7
7	6014 FSW MGMT	T	7,14,17,37,44

CONTINUED

[PRD] DATABASE RECORD: 24313
ITEM NUMBER: T44.1K

8	6015 USA INTEG		T	7,14,17,37,44
9	6016 SAFE OPS		T	7,14,17,37,44
10	6017 RADAR SYS		T	7
11	6018 MER COORD		T	7,14,17,37,44
12	6501 ET CONF	*	M	7,14,17,37,44
13	6502 SRB CONF	*	M	7,14,17,37,44
14	6503 SSME CONF	*	M	7,14,17,37,44
15	6504 MPS CONF	*	M	7,14,17,37,44
16	6505 SRM CONF	*	M	7,14,17,37,44
17	6603 PROG MGR	*	M	7,17
18	KSC WX VHF		M	7,28
19	9031 CONV CMDER		M	7
20	117 OIS CONTROL		T	7,14,17,37,44
21	132 OTC		T	7,14,17,37,44
22	133 PTD/AFTD		T	7,17
23	134 PTC/AFT 1		T	7,17
24	135 LRD		T	7,14,17,37,44
25	136 TANK BOOSTER CONDUCTOR		T	7,14,17,37,44
26	141 G & N		T	7,14,17,37,44
27	142 MECH & ARMS		T	7,14,17,37,44
28	143 ECLSS-1		T	7,14,17,37,44
29	145 ORB INST		T	7,14,17,37,44
30	146 SSME/SSMEC		T	7,14,17,37,44
31	147 HYPER FUEL		T	7,14,17,37,44
32	151 EPDC		T	7,14,17,37,44
33	152 DPS		T	7,14,17,37,44
34	153 FUEL CELLS		T	7,14,17,37,44
35	155 ORB COMM		T	7,14,17,37,44
36	156 LO2		T	7,14,17,37,44
37	157 HYPER OX		T	7,14,17,37,44
38	161 PE-1		T	7,14,17,37,44
39	163 KSC/JSC BIOMED		T	7,14,17,37,44
40	166 LH2		T	7,14,17,37,44
41	168 MPS		T	7,14,17,37,44
42	171 FLT CONT		T	7,14,17,37,44
43	172 ECS-1		T	7,14,17,37,44
44	173 NAV AIDS		T	7,14,17,37,44
45	177 HGDS		T	7,14,17,37,44
46	182 HYD/ORB		T	7,14,17,37,44

CONTINUED

[PRD] DATABASE RECORD: 24313
ITEM NUMBER: T44.1K

47	211	ORB UHF	T	7,14,17,37,44
48	212	A/G-1 (S-BAND-1)	T	7,14,17,37,44
49	213	A/G-2 (S-BAND-2)	T	7,14,17,37,44
50	216	JSC/B-NS COORD	T	7,14,17,37,44
51	222	ET/ICE	T	7,14,17,37,44
52	223	SEE NOTE 1	T	7,14,17,37,44
53	224	SEE NOTE 1	T	7,14,17,37,44
54	225	SEE NOTE 1	T	7,14,17,37,44
55	226	SEE NOTE 1	T	7,14,17,37,44
56	227	SEE NOTE 1	T	7,14,17,37,44
57	228	SEE NOTE 1	T	7,14,17,37,44
58	231	WX & TROUBLE	T	7,14,17,37,44
59	232	PH-M/NTD/LTD	M	7,14,17,37,44
60	233	RQMQA	T	7,14,17,37,44
61	235	MISSION AUDIO	M	7,14,17,37,44
62	245	ESA	T	7,14,17,37,44
63	261	PE-2/ESA	T	7,14,17,37,44
64	263	MSFC COORD	T	7,14,17,37,44

* THESE CHANNELS TO HAVE TALK (T) CAPABILITY ON CONSOLES 0232A1 AND 0232A11 IN THE KSC LCC2, OTHER CONSOLES TO HAVE MONITOR ONLY.

NOTE 1: CHANNELS TO BE ASSIGNED IN REAL TIME BY PH-M/NTD.

NOTE 2: OIS CHANNELS TO BE FROM APPLICABLE CONTROL ROOM.

TECH CONTACT: JON COWART/JSC RES OFF/321 861-3040
JERRY SHEEHAN/B-NS/KSC/321 861-4510

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/11/05
RESPONSE TRACKING: Z3953 Z5806 Z6707 Z6928

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3020 - REAL TIME DISPLAYS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 24286 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/21/02
INITIAL DATE: 12/10/90
ITEM NUMBER: H46.1K DATE LAST CHANGED: 11/16/05
SECTION: 3020 TIME LAST CHANGED: 09:41:40

REQUESTER: MSFC
SUBREQUESTER: MS074 SK
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20008S 20009S 20014S
20017S 20037S 20044S 20056S
25407B
TRACKING NO. A106-1 COMREV05 KING2001 L04-2-1 L3916
L4812 R0402-1 R109-42 R3905 R9904
SHAW95

1. DESCRIPTION: MSFC CONSOLES - FR2

PROVIDE CONSOLES WITH OIS-D CONFIGURED AS SHOWN:

REF	FUNCTION	CONS #	STA #	OIS-D UNIT	NUMBER OF HEADSETS
1	SRB LSS	0204A3	101-31	52	4
2	MARTIN LSS	0215A2	101-4D	52	4
3	MMC BACK UNITS	0215A8	102-6C	52	4
4	MMC BACK UNITS	0215A8	100-6D	52	4
5	RKT DYNE	0216A1	101-11	52	4
6	MARTIN LSS	0216A3	102-2D	52	4
7	MMC BACK UNITS	0216A4	102-12	52	4
8	MESA MMC	0231A1	100-4E	52	4
9	MESA MMC	0231A1	103-32	52	4
10	SSME	0231A2	101-4E	52	4
11	SRB	0231A3	102-4E	52	4
12	BACK COMM UNITS	0231A8	101-71	52	4
13	SSME	0231A12	100-72	52	4
14	ICE TEAM	0240 RK-04	101-34	52	4

NOTE 1: CONSOLES ARE TO BE UP FULLTIME EXCEPT FOR SCHEDULED MAINT.

NOTE 2: o TELEPHONE SERVICE W/ CAPABILITY REQUIRED IN THE AREA.
o CONSOLES TO HAVE ACCESS TO TEST AND CHECKOUT DATA VIA KEYBOARD AND CRT.

CONTINUED

[PRD] DATABASE RECORD: 24286
ITEM NUMBER: H46.1K

OIS-D CHANNEL CONFIGURATION FOR THE ABOVE CONSOLES:

REF	OIS CHANNEL	CAP	TEST CODE
1	6001 FLT DIR	M	7,14
2	6002 SSPO	T	7,14,17,37
3	6003 OPO	T (CONS 216A4)	7,14,17,37
4	6004 STAFF ENGR	T (WHEN USED)	7,14,17,37
5	6006 SRM & QA	T	7,14,17,37
6	6501 ET HOSC	T	7,8,9,14,17,37,44,56
7	6502 SRB HOSC	T	7,8,9,14,17,37,44
8	6503 SSME HOSC	T	7,8,14,17,37,44
9	6504 MPS HOSC	T	7,8,9,14,17,37,44,56
10	6505 SRM HOSC	T	7,8,14,17,37,44
11	9901 SRB RETREVIAL	M	7,25321
12	117 OIS CONTROL	T	7,8,9,14,17,37,44,56,25321
13	146 SSME-1/SSMEC-1	T	7,9,14,17,37,44
14	161 PE-1	T	7,8,14,17,37,44,56
15	174 IUS COORD	T (WHEN USED)	CARGO
16	187 HYD SRB	T	7,8,9,14,17,44
17	216 JSC/B-NS COORD	T	7,14
18	222 ET ICE	T	7,14,37
19	245 ESA	T	7,8,14,17,37,44
20	261 PE2/ESA	T	7,8,14,17,37,56
21	263 MSFC COORD	T	7,8,9,14,17,37,44

ALL OTHER OIS CHAN'S IN LCC2 M

NOTE 1: OIS CHANNELS TO BE FROM APPLICABLE CONTROL ROOM.

TECH CONTACT: SK/PAT LAMPTON/321 861-4004

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 KICS-105

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3020 - REAL TIME DISPLAYS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 24286
ITEM NUMBER: H46.1K

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/21/02
RESPONSE TRACKING: Z3916 Z3953 Z4817 Z6928 Z9912

[PRD] DATABASE RECORD: 517193 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/30/00
INITIAL DATE: 12/03/91
ITEM NUMBER: T66.1K DATE LAST CHANGED: 06/06/07
SECTION: 3020 TIME LAST CHANGED: 07:58:38

REQUESTER: JSC
SUBREQUESTER: ESA
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20014S 20017S 20037S
20044S
TRACKING NO. A106-1 KING2001 L04-2-1 L5803 R0402-1
R109-42 R4206
PRIORITY: MANDATORY
RATIONALE: MISSION SUCCESS

1. DESCRIPTION: JSC CONSOLES - ESA

PROVIDE CONSOLES WITH OIS-D CONFIGURED AS SHOWN:

REF	FUNCTION	CONS #	STA #	OIS-D UNIT	NO HEADSETS
1	MECH	0695A5	104-74	52	
2	PVD	0695A56	106-75	52	

NOTE 1: CONSOLES ARE TO BE UP FULLTIME EXCEPT FOR SCHEDULED MAINTENANCE.

NOTE 2: o TELEPHONE SERVICE W/ CAPABILITY REQUIRED IN THE AREA.
o CONSOLES TO HAVE ACCESS TO TEST AND CHECKOUT DATA VIA KEYBOARD AND CRT.

OIS-D CHANNEL CONFIGURATION FOR THE ABOVE CONSOLES:

REF	OIS CHANNEL	CAP	TEST CODE

CONTINUED

[PRD] DATABASE RECORD: 517193
ITEM NUMBER: T66.1K

1	6002 SSPO	T	7,14,17,37,44
2	6003 OPO	T	7,14,17,37,44
3	6004 STAFF ENGR	T	7,14,17,37,44
4	6235 MSN AUD/PRESS CONF/INTV	M	7
5	6317 GCN-1	M	7,14,17,37,44
6	6318 GCN-2/3	M	7,14,17
7	216 B-NS COORD	T	7,14,17,37,44
8	245 ESA	T	7,14,17,37,44
9	261 PE2/ESA	T	7,14,17,37,44

ALL OTHER OIS CHAN'S IN ESA T

TECH CONTACTS: JON COWART/JSC RES OFF/321 861-3040
JERRY SHEEHAN/B-NS/KSC/321 861-4540

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2-B KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/30/00
RESPONSE TRACKING: Z4209 Z5816

[PRD] DATABASE RECORD: 207371 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/27/95
INITIAL DATE: 07/18/88
ITEM NUMBER: K68E DATE LAST CHANGED: 03/08/06
SECTION: 3020 TIME LAST CHANGED: 07:14:40

REQUESTER: KSC
SUBREQUESTER: TA-E
TEST CODE: CCAFS STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. DB98 KING2001 R26209 SHAW95
PRIORITY: REQUIRED
RATIONALE: INFORMATION FOR MANAGEMENT CONSOLE.

1. DESCRIPTION: NASA AF MANAGEMENT OFFICE (NAMO) REQUIREMENTS
(L-5 HOURS)

CONTINUED

[PRD] DATABASE RECORD: 207371
ITEM NUMBER: K68E

THE FOLLOWING CONSOLE POSITIONS ARE REQUIRED AT THE ROCC (RANGE OPERATIONS CONTROL CENTER) BY THE KSC NASA AF AF MANAGEMENT OFFICE (NAMO) IN SUPPORT OF NASA MANAGEMENT PROJECT, NETWORK AND RANGE SAFETY REPRESENTATIVE FUNCTIONS. COMMUNICATIONS WILL BE REQUIRED TO INCLUDE: POINT-TO-POINT PHONES, SELECTED OIS CHANNELS, NETWORK VOICE CIRCUITS AND SELECTED ER/DOD VOICE CIRCUITS. TV MONITOR CAPABILITY WILL ALSO BE REQUIRED. SPECIFIC COMMUNICATIONS REQUIREMENTS ARE DETAILED IN THE APPROPRIATE PRD COMMUNICATIONS SECTION.

LOCATION: CCAFS - ROCC
1. TWO CONSOLE POSITIONS FOR NASA MANAGEMENT TO BE LOCATED IN THE ROCC.
2. ONE POSITION FOR THE NASA RANGE SAFETY OBSERVER TO BE LOCATED ADJACENT TO THE NASA MANAGEMENT CONSOLES.

POC: WILLIAM HAASE/321 494-9163

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/22/95
RESPONSE TRACKING: Z26152 Z2686 Z6923

[PRD] DATABASE RECORD: 19393 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/21/98
INITIAL DATE: 09/18/89
ITEM NUMBER: K69.1E DATE LAST CHANGED: 02/13/07
SECTION: 3020 TIME LAST CHANGED: 09:09:32

REQUESTER: KSC
SUBREQUESTER: I-PH-B KSC/DYN2 KSC/TA
TEST CODE: CCAFS STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. DB98 KING2001 L3401 L9503 R109-42
SCRUB06
PRIORITY: MANDATORY
RATIONALE: SAFETY ISSUE

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3020 - REAL TIME DISPLAYS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 19393
ITEM NUMBER: K69.1E

1. DESCRIPTION: ENVIRONMENTAL EVALUATION CENTER (EEC) CONSOLES
(L-5 HOURS)

PROVIDE TWO CONSOLES IN ROCC FOR THE NASA ENVIRONMENTAL PERSONNEL CONFIGURED AS FOLLOWS:

CIRCUIT TITLE	CAP
OIS-131	T
OIS-138	T
OIS-217 (GCN-1)	M
OIS-231	T
OIS-232	M
RADIO NET 'S'	T
RADIO NET 'Y'	T
WX BRIEFING NET	M

TECH CONTACTS: BURT SUMMERFIELD/TA/321 867-4598
CARLTON HALL/DYN-2/321 476-4101

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 10/26/98
RESPONSE:
WILCO ALL EXCEPT OIS-321 WILL BE MONITOR ONLY (REF. LLS2750), K49.2E, DBR 19842) AND PER TELECON WITH JJ-3-B AND DYNAMAC 10/22/98; OIS-217 (GCN-1) NOWLCO INWORK DUE TO CONFLICT WITH DAILY COMMUNICATIONS SETUP MANDATED BY 45 SW/SESL. IN-COURT CHANGE TO MEET GCN-1 REQUIREMENT MAY BE POSSIBLE. TBD WITH 45 SW/SESL RESOLUTION/DIRECTION.

RESPONSE TRACKING: Z3448 Z9511

[PRD] DATABASE RECORD: 250891 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/06/97
INITIAL DATE: 12/08/88
ITEM NUMBER: T70E DATE LAST CHANGED: 06/06/07

CONTINUED

[PRD] DATABASE RECORD: 250891
ITEM NUMBER: T70E

SECTION: 3020 TIME LAST CHANGED: 07:58:58

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20007S 20027S
TRACKING NO. KING2001 L2733 L5332 L703-3 L8303
R109-42 R2911
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: JSC EMSS COORDINATOR - WHITE SANDS SPACE HARBOR

JSC REQUIRES AN OPERATING POSITION FOR THE JSC EMSS COORDINATOR ON THE WSMR, LOCATED IN KING 1 WITH COMMUNICATIONS CAPABILITY AS DIAGRAMMED IN SECTION 2750 OF THIS PRD.

1. A/G-2 (TALK)
2. TELEPHONE (W/ CAPABILITY)
3. CONVOY COMMANDER VHF (MONITOR)
4. FLIGHT DIRECTOR (MONITOR)
5. 282.8 UHF/AM (TALK)
6. WSSH FIRE/CRASH NET (TALK)

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: WSMR
RESPONDER: BART KLEINFELDT/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/24/97
RESPONSE TRACKING: Z2950 Z8417

[PRD] DATABASE RECORD: 19112 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/15/05
INITIAL DATE: 08/16/89
ITEM NUMBER: K70.2Z DATE LAST CHANGED: 04/03/07
SECTION: 3020 TIME LAST CHANGED: 12:28:31

REQUESTER: KSC
SUBREQUESTER: I-PH-B KSC/PH-L

CONTINUED

[PRD] DATABASE RECORD: 19112
ITEM NUMBER: K70.2Z

TEST CODE: S0027.001 STSALL WSSH

ASSOCIATED DOC: 20027S 25044S
TRACKING NO. COMREV05 DB98 KING2001 L2847 L6524
L907-15 R0501-1 R0504-8 R109-42 R3418
SHAW94
PRIORITY: REQUIRED
RATIONALE: TERITARY LANDING SITE. BECOMES MANDATORY FOR LANDING AT WSSH.

1. DESCRIPTION: WSSH GROUND OPERATIONS MANAGER (WGM) CONSOLE

PROVIDE A CONSOLE IN WOCC WITH 10 CHANNEL CAPABILITY.

VOICE COMMUNICATIONS TERMINATION REQUIREMENTS WILL BE IN ACCORDANCE WITH THE 2760 COMMUNICATIONS SECTION.

TECHNICAL CONTACT: KSC/PH-L/LOU GARCIA/321 861-6196
KSC/USK-426/MIKE KUTA/321 861-3890
WSTF/ZIGGY ZAPEN/505 524-5556

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 04/15/05
RESPONSE:
SPECIFIC CONSOLE CONFIGURATION IS IDENTIFIED IN WSTF JOB INSTRUCTIONS DOCUMENTATION SUPPORTING WSSH OPERATIONS.

RESPONSE TRACKING: Z0504-5 Z28122 Z3410 Z6587

[PRD] DATABASE RECORD: 19113 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/15/05
INITIAL DATE: 08/16/89
ITEM NUMBER: K70.3Z DATE LAST CHANGED: 04/03/07
SECTION: 3020 TIME LAST CHANGED: 12:28:55

REQUESTER: KSC
SUBREQUESTER: I-PH-B KSC/PH-L
TEST CODE: STSALL WSSH

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3020 - REAL TIME DISPLAYS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 19113
ITEM NUMBER: K70.3Z

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 L2847 L308-02 L6524
L907-15 R0501-1 R0504-8 R109-42 R3418
R5811 SHAW94
PRIORITY: REQUIRED
RATIONALE: TERITARY LANDING SITE. BECOMES MANDATORY FOR LANDING AT WSSH.
1. DESCRIPTION: WSSH AIR FIELD SUPPORT (WASC) COORDINATION CONSOLE

PROVIDE A CONSOLE IN WOCC WITH 10 CHANNEL CAPABILITY.

VOICE COMMUNICATIONS TERMINATION REQUIREMENTS WILL BE IN ACCORDANCE WITH THE 2750 COMMUNICATIONS SECTION.

TECHNICAL CONTACT: KSC/PH-L/LOU GARCIA/321 861-6196
KSC/USK-426/MIKE KUTA/321 861-3980
WSTF/ZIGGY ZAPEN/505 524-5556

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 04/15/05
RESPONSE: SPECIFIC CONSOLE CONFIGURATION IS IDENTIFIED IN WSTF JOB INSTRUCTION DOCUMENTATION SUPPORTING WSSH OPERATIONS.

RESPONSE TRACKING: Z0504-5 Z28122 Z3410 Z5812 Z6587

[PRD] DATABASE RECORD: 19114 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/21/05
INITIAL DATE: 02/21/05
ITEM NUMBER: T70.4Z DATE LAST CHANGED: 04/03/07
SECTION: 3020 TIME LAST CHANGED: 12:29:21

REQUESTER: JSC
SUBREQUESTER: I-PH-B KSC/PH-L
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. COMREV05 KING2001 L2847 L308-02 L907-15

CONTINUED

[PRD] DATABASE RECORD: 19114
ITEM NUMBER: T70.4Z

R0501-1A R3418 R5811

1. DESCRIPTION: TEST PROJECT ENGINEER CONSOLE

RESPONSIBLE AGENCY: WSTF

PROVIDE TEST PROJECT ENGINEER CONSOLE IN THE WOCC WITH TEN CHANNEL CAPABILITY.

TEST PROJECT ENGINEER (TPE) CONSOLE CONFIGURATION PER CURRENT WSTF JOB INSTRUCTIONS (WJI).

TECHNICAL CONTACT: KSC/PH-L/LOU GARCIA/321 861-6196
WSTF/ZIGGY ZAPEN/505 524-5556

* NOTE: CIRCUITS TO CONSOLE ARE TO BE CONFIGURED POST LANDING.

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/21/05
RESPONSE TRACKING: Z28122 Z3410

[PRD] DATABASE RECORD: 19115 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/13/05
INITIAL DATE: 08/16/89
ITEM NUMBER: K70.5Z DATE LAST CHANGED: 04/03/07
SECTION: 3020 TIME LAST CHANGED: 12:29:52

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. COMREV05 DB98 KING2001 L2847 L308-02
L6524 L907-15 R0501-1 R0504-8 R3418
R5811 SHAW94

CONTINUED

[PRD] DATABASE RECORD: 19115
ITEM NUMBER: K70.5Z

PRIORITY: REQUIRED
RATIONALE: TERITARY LANDING SITE. BECOMES MANDATORY FOR LANDING AT WSSH.

1. DESCRIPTION: ORBITER TEST CONDUCTOR (OTC) CONSOLE

PROVIDE A CONSOLE IN WOCC WITH 10 CHANNEL CAPABILITY

VOICE COMMUNICATIONS TERMINATION REQUIREMENTS WILL BE IN ACCORDANCE WITH THE 2750 COMMUNICATIONS SECTION.

TECHNICAL CONTACT: KSC/PH-L/LOU GARCIA/321 861-6196
KSC/USK-426/MIKE KUTA/321 861-3890
WSTF/ZIGGY ZAPEN/505 524-5556

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 04/13/05
RESPONSE:
SPECIFIC CONSOLE CONFIGURATION IS IDENTIFIED IN WSTF JOB INSTRUCTIONS DOCUMENTATION SUPPORTING WSSH OPERATIONS.

RESPONSE TRACKING: Z0504-5 Z28122 Z3410 Z5812 Z6587

[PRD] DATABASE RECORD: 19118 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/13/05
INITIAL DATE: 08/16/89
ITEM NUMBER: K70.6Z DATE LAST CHANGED: 04/03/07
SECTION: 3020 TIME LAST CHANGED: 12:30:14

REQUESTER: KSC
SUBREQUESTER: I-PH-B KSC/PH-L
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. COMREV05 DB98 KING2001 L2847 L308-02
L907-15 R0501-1 R0504-8 R109-42 R3418
R5811
PRIORITY: REQUIRED

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3020 - REAL TIME DISPLAYS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 19118
ITEM NUMBER: K70.6Z

RATIONALE: TERITARY LANDING SITE. BECOMES MANDATORY FOR LANDING AT WSSH.

1. DESCRIPTION: ORBITER ENGINEER CONSOLE

PROVIDE A CONSOLE IN WOCC WITH A 10 CHANNEL CAPABILITY

A. VOICE COMMUNICATIONS TERMINATION REQUIREMENTS WILL BE IN ACCORDANCE WITH THE 2750 COMMUNICATIONS SECTION.

TECHNICAL CONTACT: KSC/PH-L/LOU GARCIA/321 861-6196
KSC/USK-426/MIKE KUTA/321 861-3890
WSTF/ZIGGY ZAPEN/505 524-5556

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 04/13/05
RESPONSE:
SPECIFIC CONSOLE CONFIGURATION IS IDENTIFIED IN WSTF JOB INSTRUCTION DOCUMENTATION SUPPORTING WSSH OPERATIONS.

RESPONSE TRACKING: Z0504-5 Z28122 Z3410 Z5812

[PRD] DATABASE RECORD: 318650 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/16/88
INITIAL DATE: 06/16/88
ITEM NUMBER: K72X DATE LAST CHANGED: 03/20/07
SECTION: 3020 TIME LAST CHANGED: 13:49:06

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L
TEST CODE: EAFB S0026.200 S0026.300 S5022.200
STSALL

ASSOCIATED DOC: 20026S 25022S
TRACKING NO. COMREV05 DB98 KING2001 R109-42 R26200
PRIORITY: MANDATORY
RATIONALE: MISSION CRITICAL

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3020 - REAL TIME DISPLAYS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 318650
ITEM NUMBER: K72X

1. DESCRIPTION: KSC GROUND OPERATIONS MANAGER - DFRC

PROVIDE A CONSOLE AND THE FOLLOWING COMMUNICATIONS IN THE DFRC CONTROL ROOM (BLDG. 4800) FOR THE KSC GROUND OPERATIONS MANAGER. REQUIRED PRIOR TO LAUNCH AND UNTIL ORBITER ARRIVAL AT THE MDD APPROXIMATELY 3 TO 8 HOURS AFTER LANDING.

A. TALK-MONITOR

1. FLIGHT DIRECTOR
2. ORBITER UHF (LONGLINE AIR-GROUND 2; MONITOR-ONLY UNTIL WHEELS STOP)
3. LRD (CX39 OIS-RF CHANNEL 135)
4. CONVOY CMDR VHF (WITH KEYING)
5. COOLING VHF (WITH KEYING)
6. LANDING FIELD PRIME 1
7. LANDING FIELD PRIME 2
8. PURGE VHF
9. (SPA OIS-Q) SPA ENGR

B. MONITOR-ONLY

1. ORBITER AIR-GROUND 1 OR WEATHER

TECHNICAL CONTACT: KSC/PH-L/DEAN SCHAAF/321 861-9311
KSC/USK-426/MIKE KUTA/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/16/88
RESPONSE TRACKING: Z2695

[PRD] DATABASE RECORD: 323088 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/06/94
INITIAL DATE: 06/16/89
ITEM NUMBER: E73X DATE LAST CHANGED: 05/31/07
SECTION: 3020 TIME LAST CHANGED: 07:54:33

REQUESTER: ER
TEST CODE: EAFB STSALL

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3020 - REAL TIME DISPLAYS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 323088
ITEM NUMBER: E73X

ASSOCIATED DOC: 20026S
TRACKING NO. ERLSR9410 KING2001 R109-42 R26200 R2880
R6569

1. DESCRIPTION: EAFB COORDINATOR - DFRC

PROVIDE A CONSOLE AND THE FOLLOWING COMMUNICATIONS IN THE DFRC CONTROL ROOM (BLDG. 4800) FOR THE EAFB COORDINATOR TO IMPLEMENT THE HSFS OPLAN.

A. TALK-MONITOR

1. LANDING FIELD PRIME 1
2. LANDING FIELD PRIME 2
3. EAFB COORDINATOR
4. VHF/AM (SAR COORDINATION)
5. AFFTC COMMAND POST HOT LINE
6. TELEPHONE (CLASS A BASE EXTENSION)
7. TELEPHONE (ADMINISTRATIVE)
8. TELEPHONE (DFRC CONTROL RM. CONFERENCE)
9. UHF/AM (SAR OPERATIONS)
10. HSFS COORD

B. MONITOR-ONLY

1. A/G-1 OR WEATHER
2. A/G-2
3. FLT DIRECTOR

DFRC/GEORGE GRIMSHAW/661 276-3425

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/08/94
RESPONSE TRACKING: Z2695 Z2866 Z6558

[PRD] DATABASE RECORD: 200712 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/01/89
INITIAL DATE: 08/01/89
ITEM NUMBER: K74X DATE LAST CHANGED: 03/20/07
SECTION: 3020 TIME LAST CHANGED: 13:50:24

REQUESTER: KSC

CONTINUED

[PRD] DATABASE RECORD: 200712
ITEM NUMBER: K74X

SUBREQUESTER: KSC/PH-L
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. COMREV05 DB98 KING2001 L2850 R109-42
R26200
PRIORITY: REQUIRED
RATIONALE: ALTERNATE SOURCE.

1. DESCRIPTION: ALT KSC GROUND OPERATIONS MANAGER - DFRC

PROVIDE A CONSOLE ADJACENT TO THE GOM CONSOLE IN THE DFRC CONTROL ROOM (BLDG. 4800) FOR THE ALTERNATE GROUND OPERATIONS MANAGER. REQUIRED PRIOR TO LAUNCH AND UNTIL ORBITER ARRIVAL AT THE MDD APPROXIMATELY 3 TO 8 HOURS AFTER LANDING.

CONFIGURE THE UNIT AS FOLLOWS:

	TITLE	CIRCUIT NO.
1.	CONVOY CDR NET *	95
2.	COOLING NET *	96
3.	PURGE NET *	97
4.	LRD/SPA 1	98
5.	FLIGHT DIRECTOR	83
6.	A/G 2 (ORB UHF)	82
7.	A/G 1 OR WEATHER (M)	81
8.	LANDING FIELD PRIME 1	84
9.	LANDING FIELD PRIME 2	85
10.	ORBITER CONDUCTOR	111

* WITH KEYING CAPABILITY

TECHNICAL CONTACT: KSC/PH-L/DEAN SCHAAF/321 861-9311
KSC/USK-426/MIKE KUTA/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3020 - REAL TIME DISPLAYS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 200712
ITEM NUMBER: K74X

RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/01/89
RESPONSE TRACKING: Z2695 Z28125

[PRD] DATABASE RECORD: 214854 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/26/88
INITIAL DATE: 10/26/88
ITEM NUMBER: T75X DATE LAST CHANGED: 03/20/07
SECTION: 3020 TIME LAST CHANGED: 13:51:06

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20007S 20026S
TRACKING NO. KING2001 L2733 R109-42
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: EMSS COORDINATOR DFRC

JSC REQUIRES AN OPERATING POSITION FOR THE DFRC EMSS COORDINATOR IN THE DRYDEN CONTROL ROOM WITH COMMUNICATIONS CAPABILITY AS DETAILED IN THE 2760 SECTION OF THIS DOCUMENT:

1. A/G-1 OR WEATHER (MONITOR)
2. A/G-2 (TALK)
3. LANDING FIELD PRIME-1 (TALK)
4. LANDING FIELD PRIME-2 (TALK)
5. SURGEON (TALK)
6. TELEPHONE (W/ CAPABILITY)
7. CONVOY COMMANDER VHF (MONITOR)
8. FLIGHT DIRECTOR (MONITOR)
9. 282.8 UHF/AM
10. EDWARDS MEDICAL NET (TALK)

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3020 - REAL TIME DISPLAYS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 214854
ITEM NUMBER: T75X

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/26/88
RESPONSE TRACKING: Z2753

[PRD] DATABASE RECORD: 16161 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/29/88
INITIAL DATE: 07/29/88
ITEM NUMBER: D76X DATE LAST CHANGED: 03/20/07
SECTION: 3020 TIME LAST CHANGED: 13:51:38

REQUESTER: HSFS
SUBREQUESTER: DDMS
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20007S 20026S
TRACKING NO. KING2001

1. DESCRIPTION: DDMS REPRESENTATIVE - DFRC

DDMS REQUIRES AN OPERATING POSITION FOR THE DDMS REPRESENTATIVE IN THE DRYDEN CONTROL ROOM WITH COMMUNICATIONS CAPABILITY AS DETAILED:

	TITLE	CAP
1.	CONVOY COMMANDER VHF NET	M
2.	EDWARDS COMMANDER	T
3.	DOD COORD	T
4.	AIR TO GROUND #1	M
5.	AIR TO GROUND #2	M
6.	LANDING FIELD PRIME #1	M
7.	LANDING FIELD PRIME #2	M
8.	FIRE/CRASH/RESCUE	M

NOTE: 1. DUE TO LIMITED CONTROL ROOM OPERATIONAL EQUIPMENT DDMS WILL ACCEPT MONITOR ONLY CAPABILITY DURING ROUTINE LANDINGS. IN THE EVENT OF CONTINGENCY HOWEVER, CONSOLE SPACE AND TRANSMIT CAPABILITY ARE REQUIRED.

2. THESE CIRCUITS WILL NOT BE CO-DOCUMENTED IN THE 2750 SECTION.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3020 - REAL TIME DISPLAYS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 16161
ITEM NUMBER: D76X

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/31/88

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3100 - PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 227597 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/01/99
INITIAL DATE: 08/15/88
ITEM NUMBER: HT1.1EKXZ DATE LAST CHANGED: 03/20/07
SECTION: 3100 TIME LAST CHANGED: 13:52:11

REQUESTER: MSFC JSC
SUBREQUESTER: JSC/KX JSC/MV
TEST CODE: EAFB KSC STSALL WSSH

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
TRACKING NO. A3902 KING2001 L10302 L104-13 L104-7
L2640 L4009 L611-2 L806-1 L901-2
R109-81 R26212 R26244 R2641 R2648
R8101 R9310
PRIORITY: REQUIRED
RATIONALE: REQUIRED FOR POST-FLIGHT ASSESSMENT OF SHUTTLE PROPULSION ELEMENTS.

1. DESCRIPTION: GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS

ALL ENGINEERING SEQUENTIAL CAMERAS SHOULD PROVIDE CODED RANGE TIMING ON THE FILM. PROVIDE TIMING ON DOC FILM CAMERAS WHERE PRACTICAL.

NOTE: DOD WILL SUPPORT WITH EXISTING CAPABILITIES AT ALL RANGES.

PRIME REQUESTER: MSFC/TD53/TOM RIECKHOFF/256 544-7677

TECH CONTACTS: MSFC/TD53/TOM RIECKHOFF/256 544-7677
JSC/SN3/GREGORY BYRNE/281 483-0500

COORDINATION: JSC/SN3/JON DISLER/281 483-5182

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB ER WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/01/99
RESPONSE TRACKING: Z26133 Z26199 Z2719 Z4012

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-C KICS-700

CONTINUED

[PRD] DATABASE RECORD: 227597
ITEM NUMBER: HT1.1EKXZ

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 12/01/99
RESPONSE: KSC/ER TIMING WILL BE PROVIDED WHERE AVAILABLE.

RESPONSE TRACKING: Z26151 Z26219 Z4349 Z5017

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: XA1
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/01/99
RESPONSE TRACKING: Z26178 Z4012

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 12/01/99
RESPONSE: WSTF WILL PROVIDE ON BEST EFFORT BASIS.

RESPONSE TRACKING: Z26200 Z4012 Z6113 Z7508

[PRD] DATABASE RECORD: 227763 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/27/02
INITIAL DATE: 02/16/90
ITEM NUMBER: H2.1K DATE LAST CHANGED: 12/08/06
SECTION: 3100 TIME LAST CHANGED: 07:14:48

REQUESTER: MSFC
SUBREQUESTER: SRR ML004-90
TEST CODE: STSALL

ASSOCIATED DOC: 20004S
TRACKING NO. A3902 KING2001 L104-7 L105-2 L6906
R109-81 R3104
PRIORITY: REQUIRED
RATIONALE: REQUIRED FOR POST-FLIGHT ASSESSMENT OF SHUTTLE PROPULSION.

1. DESCRIPTION: DOCUMENTARY STILL PHOTOGRAPHY

MSFC REQUIRES UPON REQUEST DOCUMENTARY STILL COVERAGE OF STACKING

CONTINUED

[PRD] DATABASE RECORD: 227763
ITEM NUMBER: H2.1K

AND MATING OF SRB, ET AND ORBITER IN VAB.

PRIME REQUESTER: MICHOUD/LMC/JIM FEELEY/504 257-3062

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-C KICS-700

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/27/02
RESPONSE TRACKING: Z2657 Z3105

[PRD] DATABASE RECORD: 228410 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/27/02
INITIAL DATE: 03/02/90
ITEM NUMBER: H3K DATE LAST CHANGED: 12/08/06
SECTION: 3100 TIME LAST CHANGED: 07:17:20

REQUESTER: MSFC
TEST CODE: INFO STSALL
TRACKING NO. KING2001 L3104 L8108 R109-81
PRIORITY: REQUIRED
RATIONALE: REQUIRED FOR POST-FLIGHT ASSESSMENT OF SHUTTLE PROPULSION ELEMENTS.

1. DESCRIPTION: CAMERA LOCATIONS AND FRAME RATES, WHEN STATED, ARE PROVIDED AS A GUIDE ONLY. ACTUAL LOCATIONS SHOULD BE DETERMINED BY TESTS AT LAUNCH AND TEST SITES TO ASSURE THAT THE DESIRED COVERAGE WILL BE OBTAINED, AND THIS INFORMATION SHOULD BE COMPILED AND RECORDED IN A PHOTOGRAPHIC ACQUISTION AND DISTRIBUTION DOCUMENT (PADD)

TECH CONTACT: MSFC/TD53/TOM RIECKHOFF/256 544-7677

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-C KICS-700 NE-M7

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 02/27/02
RESPONSE TRACKING: Z3128 Z8134

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3100 - PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 317625 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/27/02
INITIAL DATE: 08/15/88
ITEM NUMBER: KT7X DATE LAST CHANGED: 03/20/07
SECTION: 3100 TIME LAST CHANGED: 13:52:41

REQUESTER: KSC JSC
SUBREQUESTER: KSC/PH-L
TEST CODE: EAFB S0027.001 STSALL

ASSOCIATED DOC: 20026S 20027S
TRACKING NO. A3902 DB98 KING2001 L104-7 L2640
R109-81 SCRUB06
PRIORITY: REQUIRED
RATIONALE: DOCUMENTARY PHOTOS

1. DESCRIPTION: PHOTOGRAPHIC - DOCUMENTARY

PROVIDE ENGINEERING DOCUMENTARY STILL PHOTO COVERAGE OF ORBITER GROUND TURNAROUND & GSE OPS AT DFRC. GROUND TURNAROUND SUPPORT WILL BE SCHEDULED FOR ON-CALL FIRST SHIFT, 7 DAYS PER WEEK, PLUS 10% OVERTIME. DIGITAL CAMERA USE BY KSC TURNAROUND OPERATIONS PERSONEL WILL ALSO BE USED.

TECH CONTACT: KSC/DEAN SCHAAF/PH-L/321 861-9311
KSC/MIKE KUTA/USK-426/321 861-3890

DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	DUPE NEG	1	ASAP	JSC
2	ORIG	1	ASAP	KSC
3	PRINT ENG (EP)	1	ASAP	ORIGINATOR

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: XA1
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/27/02
RESPONSE TRACKING: Z26178

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3100 - PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 317625
ITEM NUMBER: KT7X

[PRD] DATABASE RECORD: 322069 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/25/90
INITIAL DATE: 04/25/90
ITEM NUMBER: TY14K DATE LAST CHANGED: 02/16/07
SECTION: 3100 TIME LAST CHANGED: 10:00:07

REQUESTER: JSC NASA HQ
SUBREQUESTER: JSC/AP3
TEST CODE: STSALL
TRACKING NO. KING2001 L004-11 L3506 L906-8 R109-81
R2886

1. DESCRIPTION: PHOTOGRAPHIC - DOCUMENTARY

JSC REQUIRES DOCUMENTARY MOTION-PICTURE AND STILL COVERAGE
PHOTOGRAPHIC SUPPORT OF THE FOLLOWING SUGGESTED ACTIVITIES:

PRELAUNCH:
TRANSPORT FROM VAB TO PAD
COVERAGE FROM SEVERAL ANGLES OF VEHICLE ON PAD. "BEAUTY SHOTS"
WITH DIFFERENT LIGHTING SUCH AS SUNSET
COVERAGE OF ASTRONAUTS DURING EMERGENCY EGRESS TRAINING
GENERAL COVERAGE REPRESENTATIVE OF ANY ASTRONAUT TRAINING AT KSC
PRIOR TO MISSION

TERMINAL COUNTDOWN DEMONSTRATION TEST (TCDT)
CREW ENTERING ELEVATOR ON WAY TO WHITE ROOM DURING TCDT
LAUNCH (MISSION COVERAGE)

CREW BREAKFAST-NON-INTERFERENCE
CREW LEAVING O&C BUILDING, ENTERING VAN WHITE ROOM CAMERA
(MAY BE REMOTE) OF CREW INGRESS INTO SPACECRAFT AND HATCH CLOSING
T-90 MINUTES THROUGH LAUNCH. COVERAGE OF LCC ACTIVITIES. SHOULD
INCLUDE COVERAGE OF VIP'S IN LCC AT TIME OF LIFT-OFF
SYNC SOUND COVERAGE OF ANY NATIONALLY KNOWN VIP MAKING
CONGRATULATORY SPEECH IN LCC FOLLOWING LAUNCH
T-60 MINUTES THROUGH LAUNCH. COVERAGE OF VIP STANDS
LAUNCH AND TRACK PHOTOGRAPHY. JSC REQUIREMENTS SHOULD NOT BE
LIMITED TO PAO DEDICATED CAMERAS BUT SHOULD ALSO INCLUDE 35-MM

CONTINUED

[PRD] DATABASE RECORD: 322069
ITEM NUMBER: TY14K

AND 70-MM TRACKING CAMERAS, ETC. DOWN-RANGE TRACKING CAMERAS SUCH AS IGOR WOULD BE PARTICULARLY SIGNIFICANT. ENGINEERING COVERAGE ON MLP/FSS AND ENGINE NOZZLES AT TIME OF IGNITION IS OF EXTREME VALUE FOR DOCUMENTARY PURPOSES. AIRBORNE HELICOPTER SHOTS ARE SUGGESTED IF HELO IS AVAILABLE

PRIME REQUESTER: JSC/AP2/BILLIE DEASON/281 483-8646
TECH CONTACT: KSC/XA-E1/WILLIAM JOHNSON/321 867-2468

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-C KICS-700

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/14/90
RESPONSE TRACKING: Z2869 Z3577

[PRD] DATABASE RECORD: 353568 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/01/99
INITIAL DATE: 04/16/91
ITEM NUMBER: T15EX DATE LAST CHANGED: 03/20/07
SECTION: 3100 TIME LAST CHANGED: 13:53:06

REQUESTER: JSC
SUBREQUESTER: JSC/KX JSC/MV
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. KING2001 L004-11 L005-14 L10302 L104-7
L204-10 L2640 L3506 L3545 L3961
L611-2 L806-1 L901-2 L911-2 R109-81
R26212 R5001 R8101 R9310

1. DESCRIPTION: TIME CORRELATED PHOTOGRAPHY - EAFB

THE PRIMARY GROUND BASED SPACE POSITION AND VELOCITY DATA TO BE USED FOR ORBITER PERFORMANCE EVALUATION FOR THE PROGRAM SHALL BE THE AFFTC PROVIDED CINETHEODOLITE DATA. THE AFFTC WILL PROVIDE TIME AND WEATHER CORRELATED DATA AS FOLLOWS:

1. ALL ORBITER LANDINGS REQUIRE COVERAGE FROM ACQUISITION THROUGH

CONTINUED

[PRD] DATABASE RECORD: 353568
ITEM NUMBER: T15EX

ROLLOUT. DATA FROM ACQUISITION TO 2,500 FT. ALTITUDE TO BE AT FIVE FRAMES/SECOND; FROM 2,500 FT. TO END OF ROLLOUT AT MAXIMUM FRAMES/SECOND (TIME FROM 2,500 FT. TO END OF ROLLOUT IS APPROXMATELY ONE MINUTE).

2. A. ALL DATA TRANSFORMED TO END OF RUNWAY COORDINATES WITH Z BEING 0 AT GROUND LEVEL.
   B. ALL DATA IS TO BE PROVIDED ON COMPUTER COMPATIBLE TAPE.
   C. FILM SHALL BE RETAINED AT JSC FOR EACH SHUTTLE FLIGHT

3. EXPECTED ACCURACY OF DATA IS AS FOLLOWS:
   A. AT 50,000 FT. RANGE - + OR - 30 FT. POSITION.
   B. AT 5,000 FT. TO 0 FT. - + OR - 5 FT. POSITION
   + OR - 2 1/2 FT/SEC VELOCITY
   C. ROLLOUT - + OR - 2 FT. POSITION.

PRIME REQUESTER: JSC/MV/KENNETH BROWN/281 483-3891

TECH CONTACT: JSC/SX/GREGORY BYRNE/281 483-0500

COORDINATION: JSC/SN3/JON DISLER/281 483-5182

DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	TABULAR PRINTOUT OF CINETHEODOLITE DATA FROM LDNG-2 SEC TO WHEEL STOP.	1	7 WD	JSC/MV/KENNETH BROWN/281 483-3891

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/01/99
RESPONSE TRACKING: Z26178 Z2719 Z3546 Z3564 Z39105

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3100 - PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 353568
ITEM NUMBER: T15EX

Z5013 Z8214

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FI
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/01/99
RESPONSE TRACKING: Z3813 Z39105 Z5001 Z8303

[PRD] DATABASE RECORD: 191555 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/06/97
INITIAL DATE: 03/02/90
ITEM NUMBER: HY18K DATE LAST CHANGED: 12/12/06
SECTION: 3100 TIME LAST CHANGED: 10:12:30

REQUESTER: MSFC NASA HQ
SUBREQUESTER: MSFC
TEST CODE: INFO STSALL
TRACKING NO. KING2001 L3104 L6906 L8108 L8407
R109-81
PRIORITY: REQUIRED
RATIONALE: NECESSARY TO MAINTAIN NEGATIVES AT MSFC TO ENABLE MEDIA RELATIONS DEPT TO MEET NEWS MEDIA DEADLINES FOR HIGH QUALITY IMAGERY.

1. DESCRIPTION: DOCUMENTARY VIDEOGRAPHY AND STILL PHOTOGRAPHY

MSFC REQUIRES THAT KSC HAVE THE CAPABILITY TO PROVIDE VIDEO AND/OR STILL PHOTOGRAPHIC COVERAGE OF THE FOLLOWING ACTIVITIES. THIS COVERAGE WILL BE ON AN ON-CALL BASIS AND REAL-TIME REEQUESTS WILL BE MADE PRIOR TO THE REFERENCED EVENTS.

PRELAUNCH

* ARRIVAL, OFFLOADING, AND STOWAGE OF THE VARIOUS SEGMENTS AND STAGES OF THE LAUNCH VEHICLE.
* ERECTION AND MATING OF THE VARIOUS SEGMENTS AND STAGES OF THE LAUNCH VEHCILE.
* VIEWS OF THE LAUNCH VEHICLE ON THE LAUNCH COMPLEX.

TERMINAL COUNTDOWN DEMONSTRATION TEST (TCDT)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3100 - PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 191555
ITEM NUMBER: HY18K

* FLIGHT CREW ACTIVITIES DURING TCDT
* WHITE ROOM INGRESS

LAUNCH (MISSION COVERAGE)
* FLIGHT CREW ACTIVITIES JUST PRIOR TO LAUNCH
* WHITE ROOM INGRESS
* STILL COVERAGE OF LIFTOFF AND EARLY FLIGHT
* VIDEO COVERAGE OF LIFTOFF, EARLY FLIGHT AND SRB SEPARATION

LANDING
* ORBITER TOUCHDOWN AND ROLLOUT
* CREW EGRESS
* POST LANDING CREW ACTIVITIES.

TYPICAL PRODUCTS REQUIRED
STILL-8X10 COLOR PRINTS
DUPE NEGATIVES
VIDEO-BETA SP DUBS

PRIME REQUESTER: MSFC/CD70/DOM AMATORE/256 544-6533

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-C KICS-700

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 05/06/97
RESPONSE TRACKING: Z3128 Z8134 Z8419

[PRD] DATABASE RECORD: 318719 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/31/89
INITIAL DATE: 09/18/89
ITEM NUMBER: K31D DATE LAST CHANGED: 05/30/07
SECTION: 3100 TIME LAST CHANGED: 10:33:19

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL
TRACKING NO. A3902 DB98 KING2001 L104-7 L3401
R109-81 SCRUB06
PRIORITY: REQUIRED
RATIONALE: CONTINGENCY PHOT COVERAGE.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3100 - PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 318719
ITEM NUMBER: K31D

1. DESCRIPTION: ORBITER/SCA FERRY LANDING SITES

PROVIDE PHOTOGRAPHIC SERVICES FROM EXISTING RESOURCES ON-CALL IN CASE OF A CONTINGENCY AT ORBITER/SCA DOD FERRY LANDING SITES. STILL AND MOTION BLACK AND WHITE AND COLOR PHOTOGRAPHY OF ANOMALIES, INCLUDING ORBITER EXTERIOR SURFACE CONDITIONS, MAY BE REQUESTED AFTER LANDING AT A FERRY STOP. DETAILED REQUIREMENTS WILL BE REQUESTED VIA WORK ORDER AT THE SITE.

TECH CONTACT: DENNY GAGEN/PH-L/321 861-9301
MIKE KUTA/USK-426/321 861-3890

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/31/89
RESPONSE TRACKING: Z3320

[PRD] DATABASE RECORD: 331647 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/25/90
INITIAL DATE: 04/25/90
ITEM NUMBER: TY42ETX DATE LAST CHANGED: 03/20/07
SECTION: 3100 TIME LAST CHANGED: 13:53:42

REQUESTER: JSC NASA HQ
TEST CODE: EAFB S51C04 STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. A3902 KING2001 L004-11 L104-7 L3506
L906-8 R109-81 R2809 R2886

1. DESCRIPTION: PAO PHOTO REQUIREMENTS - EAFB

THE EAFB REQUIREMENTS IN SECTION 3110 (DOCUMENTARY) OF THE PRD ARE THE MINIMUM SUPPORT REQUIREMENTS FOR SHUTTLE CONTINGENCY LANDINGS AT EDWARDS AFB. HOWEVER, ADDITIONAL SUPPORT MAY BE NECESSARY, AT SOME FUTURE DATE, IN ORDER TO SUPPORT SPECIFIC MISSION LANDING OBJECTIVES FOR A PLANNED EDWARDS LANDING.

PRIME REQUESTER: JSC/AP2/BILLIE DEASON/281 483-8646

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3100 - PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 331647
ITEM NUMBER: TY42ETX

TECH CONTACT: JSC/AP2/BILLIE DEASON/281 483-8646

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: MIKE GAWEL/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/18/90
RESPONSE TRACKING: Z2869 Z3546

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/25/90
RESPONSE TRACKING: Z2869 Z3513

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: XA1
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/27/90
RESPONSE TRACKING: Z2869 Z3813

[PRD] DATABASE RECORD: 9166 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/21/95
INITIAL DATE: 06/30/89
ITEM NUMBER: T43K DATE LAST CHANGED: 12/12/06
SECTION: 3100 TIME LAST CHANGED: 10:17:26

REQUESTER: JSC
SUBREQUESTER: JSC/CA4 JSC/MV ZTM
TEST CODE: PREFLT S61E10 STSALL
TRACKING NO. A3902 KING2001 L104-7 L211-4 L311-1
L507-5 L5318 L6105 L6109 L906-8
R109-81 R2886 SHAW95

1. DESCRIPTION: PHOTO PAYLOAD BAY - CLOSEOUT

PROVIDE ENGINEERING DOCUMENTARY STILL PHOTO COVERAGE OF ORBITER FINAL

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3100 - PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 9166
ITEM NUMBER: T43K

PAYLOAD BAY CLOSEOUT ON A CONTINGENCY BASIS AS REQUESTED BY THE VITT.

PHOTOGRAPHER MUST BE AVAILABLE FROM PRIOR TO PGHM RETRACTION TO PAYLOAD BAY CLOSING FOR FINAL CLOSEOUTS AT THE PAD OR FROM JUST PRIOR TO FINAL PAYLOAD BAY CLEANING UNTIL FINAL CLEANING STARTS AT THE OPF TO TAKE COLOR PHOTOS PER DIRECTION OF RESPONSIBLE VITT ENGINEER.

PRIME REQUESTER: JSC/CA4/TOM KWITKOWSKI/281-244-0828
TECHNICAL CONTACTS: KSC/MDS & F204/KEVIN FLAUTT/321 867-5226
KSC/DAVE MOORE/321 867-2312

DATA DISPOSITION:

PROVIDE 13 CYS OF 48 TO 72 VIEWS TO O&C BLDG, RM 3281, OR CALL 867-2312 FOR PICKUP WITHIN 24 HOURS AFTER PAYLOAD BAY CLOSEOUT FOR PHOTOS TAKEN AT THE PAD. STANDARD TURNAROUND MAY BE USED FOR PHOTOS TAKEN AT THE OPF.

MAILING OF PHOTOS TO BE ARRANGED BY VITT ENGINEER.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2 IT-D2-C KICS-700

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/12/96
RESPONSE: PADD # E113 (PAD) E113A (OPF)

RESPONSE TRACKING: Z2869 Z5403 Z6117 Z7603

[PRD] DATABASE RECORD: 10430 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/25/99
INITIAL DATE: 05/05/88
ITEM NUMBER: HT48EKTXZ DATE LAST CHANGED: 03/20/07
SECTION: 3100 TIME LAST CHANGED: 13:54:18

REQUESTER: MSFC JSC
SUBREQUESTER: JSC/KX JSC/MV STSR60 VALO92004
VALO92006 VALO93001 VALOE
TEST CODE: EAFB STSALL WSSH

ASSOCIATED DOC: 20007S 20014S 20026S 20027S

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3100 - PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 10430
ITEM NUMBER: HT48EKTXZ

	20028S				
TRACKING NO.	A3902	KING2001	L104-7	L2630	L2643
	L611-2	L806-1	L901-2	L905-1	L9602
	L9606	R109-81	R26112	R26163	R26221
	R2628	R2648	R2663	R8101	R9310

PRIORITY: REQUIRED
RATIONALE: REQUIRED FOR POST-FLIGHT ASSESSMENT OF SHUTTLE PROPULSION ELEMENTS.

1. DESCRIPTION: PHOTO-ZERO FRAME IDENTIFICATION

PROVIDE A UNIQUE ZERO FRAME IDENTIFIER ON EACH ROLL OF ORIGINAL FILM (LAUNCH, LANDING, AND UMBILICAL WELL CAMERA) PRIOR TO DUPLICATION OF THE FILM. THE ZERO FRAME IDENTIFICATION MARK (PUNCH) SHOULD BE THE FIRST EASTMAN KODAK EVEN FOOT NUMBER ON THE FILM EDGE AFTER THE LEADER. THE EVEN FOOT NUMBER SHOULD BE LOGGED ON THE FILM IN CASE THE PUNCHED FRAME IS LOST DUE TO DAMAGE. THE SYMBOL SHOULD BE EASILY RECOGNIZABLE BY ANY USER.

PRIME REQUESTER: JSC/SN3/GREGORY BYRNE/281 483-0500
MSFC/TD53/TOM RIECKHOFF/256 544-7677

TECH CONTACT: JSC/SN3/GREGORY BYRNE/281 483-0500
MSFC/TD53/TOM RIECKHOFF/256 544-7677

COORDINATION: JSC/SN3/JON DISLER/281 483-5182

NOTE: 1. "E" SUPPLIER APPLIES TO EAFB/ER/WSMR.
2. DFRC DOES NOT PROCESS MOTION PICTURE FILM, BUT WILL SEND IT TO THE APPROPRIATE CENTERS FOR PROCESSING.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB ER WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/21/99
RESPONSE TRACKING: Z26178 Z26184 Z2660 Z9312 Z9319

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)

CONTINUED

[PRD] DATABASE RECORD: 10430
ITEM NUMBER: HT48EKTXZ

SUBSUPPLIER: IT-D2-C KICS-700

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/25/99
RESPONSE TRACKING: Z26132 Z26151 Z2682 Z9312 Z9609

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/25/99

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FI
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/25/99

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/25/99
RESPONSE:

[PRD] DATABASE RECORD: 10623 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/30/00
INITIAL DATE: 04/25/90
ITEM NUMBER: HT49K DATE LAST CHANGED: 12/12/06
SECTION: 3100 TIME LAST CHANGED: 10:19:28

REQUESTER: MSFC JSC
SUBREQUESTER: JSC/B-NS JSC/KX STSR60
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. A106-1 KING2001 L004-11 L04-2-1 L10302
L105-2 L105-4 L107-3 L2630 L3506
L4010 L4316 L611-2 L6906 L806-1

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3100 - PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 10623
ITEM NUMBER: HT49K

L911-2 R0402-1 R109-81 R2629 R8101
PRIORITY: REQUIRED
RATIONALE: REQUIRED FOR POST-FLIGHT ASSESSMENT OF SHUTTLE PROPULSION ELEMENTS.

1. DESCRIPTION: LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS

PROVIDE A SURVEY LOCATION (PAD A AND B) OF ALL PERIMETER, PAD, AND TRACKING CAMERAS WITH REFERENCE TO THE VEHICLE CENTERLINE AND SHOULD BE PROVIDED FOR LAUNCH LOCATIONS. ALSO INCLUDE THE CAMERA OFFSET RELATIVE TO THE SURVEY MARKER AT THE SITE FOR THE PAD, OTV, PARIMETER, & TRACKING CAMERAS. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERAS CHANGE.

PRIME REQUESTER: JSC/SN3/GREGORY BYRNE/281 483-0500
MSFC/TD53/TOM RIECKHOFF/256 544-7677

TECH CONTACT: JSC/SN3/GREGORY BYRNE/281 483-0500
MSFC/TD53/TOM RIECKHOFF/256 544-7677

DATA DISPOSITION

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	REPORT	1	PRIOR TO NEXT LAUNCH	TOM RIECKOFF/MSFC/TD53 256 544-7677
2	REPORT	1	PRIOR TO NEXT LAUNCH	GREGORY BYRNE/JSC/SN5 281 483-0500
3	REPORT	1	PRIOR TO NEXT LAUNCH	B-NS/HOU/GAIL HARGROVE/HS4-40 281 226-5575 13100 SPACE CENTER BLVD HOUSTON, TX 77059-3556

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-C KICS-700 USK-350

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/30/00

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3100 - PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 10623
ITEM NUMBER: HT49K

RESPONSE TRACKING: Z26132 Z3577 Z3790 Z3811 Z4014
Z4343 Z4814 Z7406

[PRD] DATABASE RECORD: 21810 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/30/00
INITIAL DATE: 04/23/90
ITEM NUMBER: T49.1K DATE LAST CHANGED: 12/12/06
SECTION: 3100 TIME LAST CHANGED: 10:20:07

REQUESTER: JSC
SUBREQUESTER: JSC/B-NS JSC/KX
TEST CODE: STSALL

ASSOCIATED DOC: 20028S
TRACKING NO. A106-1 A3902 KING2001 L004-8 L04-2-1
L103-8 L10302 L104-7 L105-2 L105-4
L201-1 L4010 L4021 L4204 L611-2
L806-1 L911-2 R0402-1 R109-81 R4001
R8101

1. DESCRIPTION: LANDING CAMERA SURVEY DATA - ENGR PHOTO ANALYSIS - KSC

PROVIDE A SURVEY LOCATION OF ALL RUNWAY PERIMETER AND TRACKING CAMERAS WITH REFERENCE TO THE RUNWAY CENTERLINE. ALSO PROVIDE THE CAMERA OFFSET RELATIVE TO THE SURVEY MARKER AT THE RESPECTIVE CAMERA SITE. PROVIDE EXISTING GEODETIC SITE LOCATION INFORMATION PLUS CAMERA OFFSET. THIS IS A ONE-TIME REQUEST EXCEPT FOR REVISIONS DUE TO REPOSITIONING OF CAMERAS.

PRIME REQUESTER: JSC/SN3/GREGORY BYRNE/281 483-0500

TECH CONTACT: JSC/SN3/GREGORY BYRNE/281 483-0500

COORDINATION: JSC/SN3/JON DISLER/281 483-5182

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	REPORT	1	UPON REQUEST	JSC/SN3/GREGORY BYRNE

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3100 - PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 21810
ITEM NUMBER: T49.1K

281 483-0500

2 REPORT 1 UPON REQUEST B-NS/HOU/GAIL HARGROVE/
HS4-40/281 226-5575
13100 SPACE CENTER BLVD.
HOUSTON, TX 77059-3556

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-C KICS-700 USK-350

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/30/00
RESPONSE TRACKING: Z3577 Z4014 Z4026 Z4234 Z4826
Z4920 Z5535 Z5825 Z6005 Z6813
Z7406

[PRD] DATABASE RECORD: 21811 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/30/00
INITIAL DATE: 01/09/91
ITEM NUMBER: T49.2EX DATE LAST CHANGED: 03/20/07
SECTION: 3100 TIME LAST CHANGED: 13:54:57

REQUESTER: JSC
SUBREQUESTER: JSC/B-NS JSC/KX JSC/MV
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. A3902 KING2001 L001-3 L004-8 L04-2-1
L10302 L104-7 L105-2 L105-4 L4010
L4021 L4822 L611-2 L806-1 L901-2
L911-2 R0402-1 R109-81 R4001 R4004
R8101 R9310 Z106-1

1. DESCRIPTION: LANDING CAMERA SURVEY DATA - ENGR PHOTO ANALYSIS
- EAFB

PROVIDE A SURVEY LOCATION OF ALL RUNWAY PERIMETER, CONTRAVES, AND TRACKING CAMERAS FOR ALL RUNWAYS THAT MAY BE USED BY THE SHUTTLE. ALSO PROVIDE THE CAMERA OFFSET RELATIVE TO THE SURVEY MARKER AT THE RESPECTIVE CAMERA SITE. TRANSMIT EXISTING GEODETIC SITE LOCATION

CONTINUED

[PRD] DATABASE RECORD: 21811
ITEM NUMBER: T49.2EX

INFORMATION PLUS CAMERA OFFSET. THIS IS A ONE-TIME REQUEST EXCEPT FOR REVISIONS DUE TO REPOSITIONING OF CAMERAS.

PRIME REQUESTER: JSC/SN3/GREGORY BYRNE/281 483-0500

TECH CONTACTS: JSC/SN3/GREGORY BYRNE/281 483-0500
JSC/C23/LOC/CLYDE SAPP/281 483-5141

COORDINATION: JSC/SN3/JON DISLER/281 483-5182

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	REPORT	1	UPON REQUEST	JSC/SN3/GREGORY BYRNE 281 483-0500
2	REPORT	1	UPON REQUEST	B-NS/HOU/GAIL HARGROVE/HS4-40 281 226-5575 13100 SPACE CENTER BLVD. HOUSTON, TX 77059-3556

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/30/00
RESPONSE TRACKING: Z3586 Z3937 Z4014 Z4026 Z4832

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS XA1
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/30/00
RESPONSE TRACKING: Z3813 Z3945 Z4014 Z4026 Z4826

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3100 - PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD:	10634	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	LLS	APPROVAL DATE:	02/01/07
		INITIAL DATE:	07/12/88
ITEM NUMBER:	HT50EK	DATE LAST CHANGED:	02/13/07
SECTION:	3100	TIME LAST CHANGED:	08:34:56

REQUESTER:	MSFC	JSC	
SUBREQUESTER:	JSC/KX	JSC/MV	MS025
TEST CODE:	EAFB	STSALL	WSSH

ASSOCIATED DOC:	20007S	20026S	20027S	20028S	
TRACKING NO.	A3902	ERLSR9416	KING2001	L10302	L104-7
	L204-10A	L3915	L5315	L611-2	L806-1
	L901-2	L911-2	R0702-2	R109-81	R26163
	R26212	R2629	R2639	R2641	R2648
	R5010	R8101	R9310	SHAW95	
PRIORITY:	REQUIRED				
RATIONALE:	REQUIRED FOR POST-FLIGHT ASSESSMENT OF SHUTTLE PROPULSION ELEMENTS.				

1. DESCRIPTION: TRACKING CAMERA AZIMUTH AND ELEVATION

PROVIDE RECORDING OF CAMERA AZIMUTH AND ELEVATION TO WITHIN +/- 2 DEGREES (SPECIFY ACTUAL DEGREES) FOR ALL TRACKING CAMERAS (INCLUDING CINE THEODOLITES) DURING LAUNCH AND LANDING (DATA FROM LANDING SHOULD BE HOLD FOR REQUEST AS PER GREGORY BYRNE).

PRIME REQUESTER: JSC/SN3/GREGORY BYRNE/281 483-0500
MSFC/TD53/TOM RIECKHOFF/256 544-7677

COORDINATION: JSC/SN3/JON DISLER/281 483-5182
ER/MIKE GAWEL/321 853-8118

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	ELECTRONIC	1	HOLD FOR REQUEST	TOM RIECKHOFF/MSFC/TD53/ 256 544-7677
2	ELECTRONIC	1	T+ 24 HRS	GREGORY BYRNE/JSC/SN3/ 281 483-0500 (FOR LANDING HOLD FOR REQUEST)
3	ELECTRONIC	1	T+ 24 HRS	GREGORY BYRNE/JSC/SN3/ 281 483-0500

CONTINUED

[PRD] DATABASE RECORD: 10634
ITEM NUMBER: HT50EK

(FOR LANDING HOLD FOR REQUEST)

NOTE: AT KSC AZ/EL CAPABILITY WILL BE PROVIDED FROM THE TRACKING TELESCOPES. AZ/EL CAPABILITY FROM THE KINETO TRACKING MOUNTS (KTM'S) WILL NOT BE PROVIDED IN THE NEAR FUTURE, DUE TO THE RANGE STANDARDIZATION EFFORT. THIS CAPABILITY WILL BE LOOKED AT AGAIN EITHER AS A PART OF THE RSA EFFORT OR AS A STANDALONE PROJECT AFTER THE RSA.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB ER WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/01/07
RESPONSE TRACKING: Z26133 Z26163 Z2719 Z2807 Z29105
Z3952 Z5010 Z5321 Z6308 Z6819
Z8131 Z9416

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-C KICS-700

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/13/07
RESPONSE TRACKING: Z26151 Z2682 Z2834 Z3009 Z3828
Z3952 Z5017 Z5321 Z6204 Z8132
Z9416

[PRD] DATABASE RECORD: 12944 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/01/99
INITIAL DATE: 07/12/88
ITEM NUMBER: T51HKTX DATE LAST CHANGED: 03/20/07
SECTION: 3100 TIME LAST CHANGED: 13:55:31

REQUESTER: JSC
SUBREQUESTER: JSC/KX JSC/MV
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20007S 20026S
TRACKING NO. A3902 KING2001 L10302 L104-7 L2640
L408-2 L611-2 L6401 L806-1 L901-2
L911-2 R109-81 R26220 R2706 R2939

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3100 - PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 12944
ITEM NUMBER: T51HKTX

R8101 R9310 SHAW94

1. DESCRIPTION: PHOTOGRAPHIC ENGINEERING (DIGITAL IMAGE TRANSMISSION)

JSC, KSC, MSFC AND DFRC SHOULD MAINTAIN A COMPUTER INTERFACE TO PROVIDE DIGITAL IMAGE TRANSMISSION CAPABILITY TO SUPPORT PROGRAMMATIC REQUIREMENTS. THESE IMAGES WILL BE USED FOR VERIFICATION OF ANALYSIS OR ADDITIONAL ANALYSIS WITH NO TIME OR MISSION CONSTRAINTS.

PRIME REQUESTER: JSC/SN3/GREGORY BYRNE/281 483-0500

TECH CONTACT: JSC/SN3/GREGORY BYRNE/281 483-0500

COORDINATION: JSC/SN3/JON DISLER/281 483-5182

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/01/99
RESPONSE TRACKING: Z26178 Z26189 Z2925 Z6908

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: NE-M7

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/01/99
RESPONSE TRACKING: Z26137 Z26151 Z26178 Z2658 Z2677
Z2959 Z3871 Z4238 Z4728 Z4920
Z5034 Z5108 Z5413 Z5551 Z5819
Z6002 Z6401

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/01/99
RESPONSE TRACKING: Z26116 Z26178 Z2736 Z2925 Z6401
Z9312

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3100 - PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 12944
ITEM NUMBER: T51HKTX

RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/01/99
RESPONSE TRACKING: Z6401

[PRD] DATABASE RECORD: 15880 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/01/99
INITIAL DATE: 01/05/89
ITEM NUMBER: T54EX DATE LAST CHANGED: 03/20/07
SECTION: 3100 TIME LAST CHANGED: 13:56:06

REQUESTER: JSC
SUBREQUESTER: JSC/KX JSC/MV
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. A3902 KING2001 L10302 L104-7 L2640
L611-2 L806-1 L901-2 L911-2 R109-81
R26228 R2941 R8101 R9310

1. DESCRIPTION: PHOTOGRAPHIC COVERAGE PHILOSOPHY FOR PRIMARY/
SECONDARY RUNWAYS AT EAFB

ENGINEERING PHOTOGRAPHY REQUIREMENTS WILL BE IMPLEMENTED BASED ON THE PRIMARY RUNWAY DESIGNATION AT THE EAFB LANDING FACILITY.
IF THE SECONDARY RUNWAY IS SELECTED FOR LANDING, IT WILL BE UNDERSTOOD THAT ONLY AVAILABLE COVERAGE WILL BE PROVIDED BASED ON THE TIME CONSTRAINT TO MOVE PERSONNEL AND CAMERA EQUIPMENT IN A TIMELY MANNER.

PRIME REQUESTER: JSC/MV/KENNETH BROWN/281 483-3891

TECH CONTACT: JSC/SN3/GREGORY BYRNE/281 483-0500

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/01/99
RESPONSE TRACKING: Z2929

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3100 - PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 15880
ITEM NUMBER: T54EX

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: XA1
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/01/99
RESPONSE TRACKING: Z26178 Z2929

[PRD] DATABASE RECORD: 518095 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/01/99
INITIAL DATE: 01/07/92
ITEM NUMBER: HT58EKX DATE LAST CHANGED: 03/20/07
SECTION: 3100 TIME LAST CHANGED: 13:56:39

REQUESTER: MSFC JSC
SUBREQUESTER: JSC/KX JSC/MV
TEST CODE:

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
TRACKING NO. KING2001 L10302 L201-1 L4203 L611-2
L806-1 L911-2 MEMO19 R109-81 R8101
R9310
PRIORITY: REQUIRED
RATIONALE: PHOTOGRAPHIC SUPPORT

1. DESCRIPTION: PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS

DUE TO THE RESTRICTED VISABILITY CONDITIONS FOR NIGHT LAUNCHES AND LANDINGS, IT IS UP TO THE DISCRETION OF THE SUPPORTING ELEMENTS AS TO WHAT PREVIOUSLY COMMITTED CAMERAS WILL SUPPORT THE VARIOUS REQUIREMENTS.

PRIME REQUESTER: JSC/MV/KENNETH BROWN/281 483-3891

TECHNICAL CONTACT: JSC/SN3/GREGORY BYRNE/281 483-5153
MSFC/TD53/TOM RIECKOFF/256 544-7677

COORDINATION: JSC/SN3/JON DISLER/281 483-5182

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3100 - PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 518095
ITEM NUMBER: HT58EKX

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB ER WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/01/99
RESPONSE TRACKING: Z4511

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-C KICS-700

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/01/99
RESPONSE TRACKING: Z4511

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FI
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/01/99
RESPONSE TRACKING: Z4511

[PRD] DATABASE RECORD: 520243 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/17/94
INITIAL DATE: 06/10/92
ITEM NUMBER: D60E DATE LAST CHANGED: 03/12/07
SECTION: 3100 TIME LAST CHANGED: 08:41:42

REQUESTER: HSFS
SUBREQUESTER: DDMS/X
TEST CODE: SPECIAL

ASSOCIATED DOC: MODE8
TRACKING NO. KING2001 L4601 R109-81 R6542

1. DESCRIPTION: PHOTOGRAPHIC SUPPORT - MODE VIII EXERCISE

REQUEST THE FOLLOWING SUPPORT:

A. PROVIDE TECHNICIANS FOR PHOTOGRAPHIC SUPPORT PRIOR TO, DURING AND AFTER THE EXERCISE.

CONTINUED

[PRD] DATABASE RECORD: 520243
ITEM NUMBER: D60E

1. MAY INCLUDE ON-SCENE PHOTO COVERAGE FROM AIRCRAFT, OCEAN-GOING VESSELS, SHIPS, BOATS AND/OR RAFTS.

2. TECHNICIANS CAN EXPECT TO REMAIN OVERNIGHT ABOARD VESSELS DEPENDING ON THE EXERCISE SCENARIO.

3. SUPERVISION OF TECHNICIANS WILL BE DELEGATED TO THE SENIOR DOD REPRESENTATIVE EMBARKED ABOARD THEIR VESSEL.

B. PRODUCTION SERVICES REQUIRED

1. DEVELOP FILM AND PRODUCE PROOFS AND FINISHED PHOTOGRAPHS (UP TO 8X10) AS REQUIRED.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER KICS-700
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 05/17/94
RESPONSE: CLOSE PRE-EXERCISE COORDINATION WITH SUBSUPPLIER
(B. DARLING FTS 321 853-5386) AND REQUESTER
(DDMS-OPS FTS 321 494-5116) IS REQUIRED.

RESPONSE TRACKING: Z4626 Z6534

[PRD] DATABASE RECORD: 543980 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/12/07
INITIAL DATE: 03/10/98
ITEM NUMBER: K61E DATE LAST CHANGED: 03/12/07
SECTION: 3100 TIME LAST CHANGED: 08:42:38

REQUESTER: KSC
SUBREQUESTER: 45 RANS/DOU RTS/CSR
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 R0702-2 R0703-2 R109-81 R9013

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3100 - PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 543980
ITEM NUMBER: K61E

PRIORITY: REQUIRED
RATIONALE: THE RANGE TECHNICAL SERVICES CONTRACTOR (CSR) HAS THE CONTRACTUAL RESPONSIBILITY TO OPERATE AND MAINTAIN THE METRIC AND LONG RANGE TELESCOPE MOUNTS.

1. DESCRIPTION:
PROVIDE LONG-RANGE FIXED AND MOBILE TRACKING INSTRUMENTS AND OPERATORS IN ORDER TO FULFILL DOCUMENTED PHOTOGRAPHIC AND VIDEO DATA REQUIREMENTS. REFERENCE LLS SECTIONS 3100, 3110, AND 3120, ALSO KRK SECTIONS 3100, 3110, AND 3120.

TRACKING DETAILS WILL BE PROVIDED ON A OPERATION-BY OPERATION BASIS, VIA OTHER DOCUMENTATION.

INSTRUMENTS REQUIRED:

LAUNCHES FROM COMPLEX 39-A	LAUNCHES FROM COMPLEX 39-B
DOAMS/PAFB	DOAMS/PAFB
DOAMS/PLAYALINDA	DOAMS/PLAYALINDA
DOAMS/PATRICK	DOAMS/PATRICK
ATOTS/UCS-23	ATOTS/UCS-23
ATOTS/UCS-11	ATOTS/UCS-11
CONTRAVES/LOCC	CONTRAVES/LOCC
CONTRAVES/UCS-17	CONTRAVES/UCS-17
CONTRAVES/UCS-6	CONTRAVES/UCS-6
CONTRAVES/UCS-8	CONTRAVES/UCS-8

TECHNICAL CONTACT: WILLIAM KLEINFELDER/CSR-4150/321 853-6886

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: CSR-4150
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/12/07
RESPONSE TRACKING: Z9013

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3100 - PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 544013 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/01/07
INITIAL DATE: 03/12/98
ITEM NUMBER: K62E DATE LAST CHANGED: 02/01/07
SECTION: 3100 TIME LAST CHANGED: 12:13:18

REQUESTER: KSC
SUBREQUESTER: 45 RANS/DOU KICS-700 RTS/CSR
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20028S
TRACKING NO. DB98 KING2001 R0702-2 R109-81 R9015
PRIORITY: REQUIRED
RATIONALE: THE RANGE TECHNICAL SERVICES (CSR) HAS THE CONTRACTUAL RESPONSIBILITY TO OPERATE AND MAINTAIN THE METRIC AND LONG RANGE TELESCOPE MOUNTS.

1. DESCRIPTION: LONG-RANGE FIXED AND MOBILE OPTICAL TRACKING INSTRUMENTS

PROVIDE LONG-RANGE FIXED AND MOBILE OPTICAL TRACKING INSTRUMENTS AND OPERATORS IN ORDER TO FULFILL DOCUMENTED PHOTOGRAPHIC AND VIDEO DATA REQUIREMENTS. REFERENCE LLS SECTIONS 3100, 3110, AND 3120, ALSO KRK SECTIONS 3100, 3110, AND 3120. (RTLS ONLY)

TRACKING DETAILS WILL BE PROVIDED ON AN OPERATION-BY-OPERATION BASIS, VIA OTHER DOCUMENTATION.

INSTRUMENTS REQUIRED:

LAUNCHES FROM COMPLEX 39-A	LAUNCHES FROM COMPLEX 39-B
DOAMS/PLAYALINDA	DOAMS/PLAYALINDA
DOAMS/PAFB	DOAMS/PAFB
ATOTS/UCS-23	ATOTS/UCS-23
ATOTS/USC-11	ATOTS/UCS-11

TECHNICAL CONTACT: WILLIAM KLEINFELDER/CSR-4150/321 853-6886
PRIME REQUESTER: ROBBIE ROBINSON/KICS-700/321 853-5386

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: CSR-4150

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3100 - PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 544013
ITEM NUMBER: K62E

RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 02/01/07
RESPONSE TRACKING: Z9015

[PRD] DATABASE RECORD: 544014 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/12/07
INITIAL DATE: 03/12/98
ITEM NUMBER: K63E DATE LAST CHANGED: 03/12/07
SECTION: 3100 TIME LAST CHANGED: 08:44:11

REQUESTER: KSC
SUBREQUESTER: 45 RANS/DOU KICS-700 RTS/CSR
TEST CODE: STSALL

ASSOCIATED DOC: 20028S
TRACKING NO. DB98 KING2001 R0703-2 R109-81 R9015
PRIORITY: REQUIRED
RATIONALE: THE RANGE TECHNICAL SERVICES (CSR) HAS THE CONTRACTURAL RESPONSIBILITY TO OPERATE AND MAINTAIN THE METRIC AND LONG RANGE TELESCOPE MOUNTS.

1. DESCRIPTION: LONG-RANGE FIXED AND MOBILE OPTICAL TRACKING INSTRUMENTS

PROVIDE LONG-RANGE FIXED AND MOBILE OPTICAL TRACKING INSTRUMENTS AND OPERATORS IN ORDER TO FULFILL DOCUMENTED PHOTOGRAPHIC AND VIDEO DATA REQUIREMENTS. REFERENCE LLS SECTIONS 3100, 3110, AND 3120, ALSO KRK SECTIONS 3100, 3110 AND 3120. (EOM ONLY)

TRACKING DETAILS WILL BE PROVIDED ON AN OPERATION-BY-OPERATION BASIS, VIA OTHER DOCUMENTATION.

INSTRUMENTS REQUIRED:

DOAMS/PLAYALINDA (DAYTIME ONLY)
DOAMS/PATRICK (DAYTIME ONLY)
ATOTS/UCS-23 (DAYTIME ONLY)
TOTS/UCS-11 (DAYTIME ONLY)
CONTRAVES/UCS-12 (DAY & NIGHT)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3100 - PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 544014
ITEM NUMBER: K63E

TECHNICAL CONTACT: WILLIAM KLEINFELDER/CSR-4150/321 853-6886.
ROBBIE ROBINSON/KICS-700/321 853-5386

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 03/12/07
RESPONSE: WILCO WITH EXCEPTIONS:

1. THE FOLLOWING INSTRUMENTS WILL SUPPORT LANDING:
PATRICK DOAMS
PB DOAMS
UCS-23 ATOTS
UCS-11 ATOTS
UCS-12 CONTRAVES

RESPONSE TRACKING: Z9015

[PRD] DATABASE RECORD: 563473 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/11/02
INITIAL DATE: 07/11/02
ITEM NUMBER: K64K DATE LAST CHANGED: 12/13/06
SECTION: 3100 TIME LAST CHANGED: 09:27:07

REQUESTER: KSC
SUBREQUESTER: KSC/CA4-A
TEST CODE: STSALL
TRACKING NO. R112-1

1. DESCRIPTION: PHOTO BOOKS FOR ASTRONAUTS

PROVIDE PHOTO BOOK FOR EACH ASTRONAUT TO INCLUDE IMAGES FROM PRE-LAUNCH, LAUNCH, AND ON-ORBIT ACTIVITIES. PROVIDE STILL IMAGE CD'S OF IMAGES USED. PROVIDE BOOKS TO ASTRONAUT OFFICE PRIOR TO EOM. PROVIDE ONE ADDITIONAL BOOK FOR OFFICE RECORD. UTILIZE DIGITAL IMAGING OT THE EXTENT FEASIBLE.

POC: LAUREN LUNDE/CA4-A/321 867-2005

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3100 - PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 563473
ITEM NUMBER: K64K

TECHNICAL CONTACT: ROBBIE ROBINSON/KICS-700/321 853-5387

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: KICS-700

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/11/02
RESPONSE: PADD ITEM D128

RESPONSE TRACKING: Z112-1

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 6443 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/15/02
INITIAL DATE: 06/01/83
ITEM NUMBER: KY6K DATE LAST CHANGED: 06/06/07
SECTION: 3110 TIME LAST CHANGED: 08:11:51

REQUESTER: KSC NASA HQ
SUBREQUESTER: XA-E1
TEST CODE: STSALL
TRACKING NO. DB98 KING2001 L103-6 L3562 L3947
L4320 R109-27
PRIORITY: REQUIRED
RATIONALE: THE USE OF TV, FILM, STILL AND DIGITAL PHOTOGRAPHY IS REQUIRED FOR EXTERNAL RELATIONS USE TO FULFILL NASA'S CHARTER TO PROVIDE INFORMATION TO THE PUBLIC IN THE WIDEST FORM POSSIBLE AS DIRECTED BY THE CONGRESSIONAL SPACE ACT OF 1958.

1. DESCRIPTION: STILL COVERAGE LANDING - SLF
LOCATION: BESIDE SLF RUNWAY
CAMERA FORMAT: DIGITAL
F/L: A/R
FPS:
FILM TYPE LOAD: COLOR
INTERVAL:
F/T:
EXP.:
TIMING:
PRIME REQUESTER: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468
TECH CONTACT: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468

REMARKS: STILL COVERAGE OF ORB/SCA LANDING AT SLF AND POST LANDING ACTIVITY HIGHLIGHTS.

DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	ORIG DISC	1	T+24 HRS	KSC/XA-E1
2	SEL DIGITAL IMAGES	1		HQ-PMD

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 6443
ITEM NUMBER: KY6K

SUBSUPPLIER: IT-D2-C KICS-700

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/15/02
RESPONSE TRACKING: Z3988 Z4112 Z4349

[PRD] DATABASE RECORD: 6463 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/15/02
INITIAL DATE: 06/01/83
ITEM NUMBER: KTY27K DATE LAST CHANGED: 06/06/07
SECTION: 3110 TIME LAST CHANGED: 08:12:13

REQUESTER: KSC JSC NASA HQ
SUBREQUESTER: MS033 XA-E1
TEST CODE: STSALL

ASSOCIATED DOC: 25214A
TRACKING NO. DB98 KING2001 L3724 L4320 R109-27
R26106
PRIORITY: REQUIRED
RATIONALE: THE USE OF TV, FILM, STILL AND DIGITAL PHOTOGRAPHY IS REQUIRED FOR EXTERNAL RELATIONS USE TO FULFILL NASA'S CHARTER TO PROVIDE INFORMATION TO THE PUBLIC IN THE WIDEST FORM POSSIBLE AS DIRECTED BY THE CONGRESSIONAL SPACE ACT OF 1958.

1. DESCRIPTION: VEHICLE ON PAD
LOCATION: LC-39 PAD
CAMERA FORMAT: DIGITAL
F/L: A/R
FPS:
FILM TYPE LOAD: COLOR
INTERVAL:
F/T:
EXP.:
TIMING:
PRIME REQUESTER: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468
TECH CONTACT: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468

REMARKS: ALERT VIEWS OF SS VEHICLE ON PAD AFTER ROLLOUT PRIOR TO RSS MOVE.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 6463
ITEM NUMBER: KTY27K

DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	ORIG DISK	1	T+24 HRS	KSC/XA-E1
2	SEL DIGITAL IMAGES	1	7 WD	JSC/AP3
3	SEL DIGITAL IMAGES	1	10 WD	HQ-PMD

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-C KICS-700

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/15/02
RESPONSE TRACKING: Z3725 Z4349

[PRD] DATABASE RECORD: 6465 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/15/02
INITIAL DATE: 03/16/88
ITEM NUMBER: KTY29K DATE LAST CHANGED: 06/06/07
SECTION: 3110 TIME LAST CHANGED: 08:12:32

REQUESTER: KSC JSC NASA HQ
SUBREQUESTER: MS033 XA-E1
TEST CODE: STSALL
TRACKING NO. DB98 KING2001 L103-6 L3724 L3947
L4320 R109-27 R26106
PRIORITY: REQUIRED
RATIONALE: THE USE OF TV, FILM, STILL AND DIGITAL PHOTOGRAPHY IS REQUIRED FOR EXTERNAL RELATIONS USE TO FULFILL NASA'S CHARTER TO PROVIDE INFORMATION TO THE PUBLIC IN THE WIDEST FORM POSSIBLE AS DIRECTED BY THE CONGRESSIONAL SPACE ACT OF 1958.

1. DESCRIPTION: FLT CREW ACTIVITIES
LOCATION: AS REQUIRED
CAMERA FORMAT: DIGITAL
F/L: A/R
FPS:

CONTINUED

[PRD] DATABASE RECORD: 6465
ITEM NUMBER: KTY29K

FILM TYPE LOAD: COLOR
INTERVAL:
F/T:
EXP.:
TIMING:
PRIME REQUESTER: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468
TECH CONTACT: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468

REMARKS: FLIGHT CREW ACTIVITIES AT KSC AS DESIGNATED BY NASA KSC/XA.

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	ORIG DISK	1	T+24 HRS	KSC/XA-E1
2	SEL DIGITAL IMAGES	1	T+36 HRS	JSC/AP3 TO WILLIAM JOHNSON AT KSC 321 867-2468, XA-E1 FOR DELIVERY TO JSC
3	SEL DIGITAL IMAGES	1		HQ-PMD

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-C KICS-700 XA-E1

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/15/02
RESPONSE TRACKING: Z3988 Z4349 ZZ3725

[PRD] DATABASE RECORD: 6467 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/15/02
INITIAL DATE: 03/16/88
ITEM NUMBER: KTY31K DATE LAST CHANGED: 06/06/07
SECTION: 3110 TIME LAST CHANGED: 08:13:06

REQUESTER: KSC JSC NASA HQ
SUBREQUESTER: MS179 XA-E1
TEST CODE: STSALL
TRACKING NO. DB98 KING2001 L3420 L6806 R109-27
R26106 SHAW94
PRIORITY: REQUIRED

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 6467
ITEM NUMBER: KTY31K

RATIONALE: THE USE OF TV, FILM, STILL AND DIGITAL PHOTOGRAPHY IS REQUIRED FOR EXTERNAL RELATIONS USE TO FULFILL NASA'S CHARTER TO PROVIDE INFORMATION TO THE PUBLIC IN THE WIDEST FORM POSSIBLE AS DIRECTED BY THE CONGRESSIONAL SPACE ACT OF 1958.

1. DESCRIPTION: SIGNIFICANT EVENTS
LOCATION: AS REQUIRED
CAMERA FORMAT: DIGITAL
F/L: A/R
FPS:
FILM TYPE LOAD: COLOR
INTERVAL:
F/T:
EXP.:
TIMING:
PRIME REQUESTER: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468
TECH CONTACT: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468

REMARKS: SIGNIFICANT UNSCHEDULED EVENTS AS DESIGNATED BY NASA KSC/XA.

DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	ORIG DISK	1	T+24 HRS	KSC/XA-E1
2	SEL DIGITAL IMAGES	1	7 WD	JSC/AP3
3	SEL DIGITAL IMAGES	1	7 WD	HQ-PMD

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-C KICS-700

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/15/02
RESPONSE TRACKING: Z4349 Z6805

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 6469 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/21/94
INITIAL DATE: 03/16/88
ITEM NUMBER: KTY33K DATE LAST CHANGED: 06/06/07
SECTION: 3110 TIME LAST CHANGED: 08:13:31

REQUESTER: KSC JSC NASA HQ
SUBREQUESTER: MS033 MS179 XA-E1
TEST CODE: STSALL
TRACKING NO. DB98 KING2001 L3721 L4320 L6011
L6806 R109-27 R26103 SHAW94
PRIORITY: REQUIRED
RATIONALE: THE USE OF TV, FILM AND DIGITAL PHOTOGRAPHY IS REQUIRED FOR EXTERNAL RELATIONS USE TO FULFILL NASA'S CHARTER TO PROVIDE INFORMATION TO THE PUBLIC IN THE WIDEST FORM POSSIBLE AS DIRECTED BY THE CONGRESSIONAL SPACE ACT OF 1958.

1. DESCRIPTION: SIGNIFICANT EVENTS
LOCATION: AS REQUIRED
CAMERA FORMAT: VIDEO
F/L: A/R
FPS:
FILM TYPE LOAD: COLOR
INTERVAL:
F/T:
EXP.:
TIMING:
PRIME REQUESTER: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468
TECH CONTACT: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468

REMARKS: SIGNIFICANT UNSCHEDULED EVENTS AS DESIGNATED BY NASA KSC/XA.

DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	BETA-SP	1	5 WD	KSC/XA-E1
2	BETA-SP	1	5 WD	JSC/AP3
3	BETA-SP	1	10 WD	HQ-PMD

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)

CONTINUED

[PRD] DATABASE RECORD: 6469
ITEM NUMBER: KTY33K

SUBSUPPLIER: IT-D2-C KICS-700

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/21/94
RESPONSE TRACKING: Z3720 Z4349 Z6025 Z6805

[PRD] DATABASE RECORD: 6475 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/15/02
INITIAL DATE: 03/16/88
ITEM NUMBER: KT39K DATE LAST CHANGED: 06/06/07
SECTION: 3110 TIME LAST CHANGED: 08:13:56

REQUESTER: KSC JSC
SUBREQUESTER: MS033 XA-E1
TEST CODE: STSALL

ASSOCIATED DOC: 20017S
TRACKING NO. DB98 KING2001 L3724 L4320 L6511
R109-27 R26106 SHAW94
PRIORITY: REQUIRED
RATIONALE: THE USE OF TV, FILM, STILL AND DIGITAL PHOTOGRAPHY IS REQUIRED FOR EXTERNAL RELATIONS USE TO FULFILL NASA'S CHARTER TO PROVIDE INFORMATION TO THE PUBLIC AS DIRECTED BY THE CONGRESSIONAL SPACE ACT OF 1958.

1. DESCRIPTION: FLT CREW ACTIVITIES-TCDT
LOCATION: AS REQUIRED
CAMERA FORMAT: DIGITAL
F/L: A/R
FPS:
FILM TYPE LOAD: COLOR
INTERVAL:
F/T:
EXP.:
TIMING:
PRIME REQUESTER: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468
TECH CONTACT: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468

REMARKS: TCDT, PRETEST/POST-TEST FLIGHT CREW ACTIVITIES AS DESIGNATED BY KSC/XA.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 6475
ITEM NUMBER: KT39K

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	ORIG DISK	1	T+24 HRS	KSC/XA-E1
2	SEL DIGITAL DISK	1	7 WD	JSC/AP3

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-C KICS-700

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/15/02
RESPONSE TRACKING: Z3725 Z4349 Z6571

[PRD] DATABASE RECORD: 6477 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/19/94
INITIAL DATE: 03/16/88
ITEM NUMBER: KT41K DATE LAST CHANGED: 06/06/07
SECTION: 3110 TIME LAST CHANGED: 08:14:22

REQUESTER: KSC JSC
SUBREQUESTER: MS033 XA-E1
TEST CODE: STSALL

ASSOCIATED DOC: 20017S
TRACKING NO. DB98 KING2001 L3724 L4320 L6001
L6520 L6601 L6820 R109-27 R26103
SHAW94
PRIORITY: REQUIRED
RATIONALE: THE USE OF TV, FILM, STILL AND DIGITAL PHOTOGRAPHY IS REQUIRED FOR EXTERNAL RELATIONS USE TO FULFILL NASA'S CHARTER TO PROVIDE INFORMATION TO THE PUBLIC IN THE WIDEST FORM POSSIBLE AS DIRECTED BY THE CONGRESSIONAL SPACE ACT OF 1958.

1. DESCRIPTION: FLT CREW ACTIVITIES - TCDT (PRETEST)
LOCATION: AS REQUIRED
CAMERA FORMAT: VIDEO
F/L: A/R
FPS:

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 6477
ITEM NUMBER: KT41K

FILM TYPE LOAD: COLOR
INTERVAL:
F/T:
EXP.:
TIMING:
PRIME REQUESTER: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468
TECH CONTACT: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468

REMARKS: TCDT, PRETEST FLIGHT CREW ACTIVITIES AS DESIGNATED BY KSC/XA.

DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	BETA-SP	5	60 MIN	KSC/XA-E1
2	BETA-SP	1	4 CD	JSC/AP3
3	BETA-SP	1	4 CD	HQ-PMD
4	SVHS	2	60 MIN	KSC/XA-E1

SUPPLIER: KSC AGENCY: ( )
SUBSUPPLIER: IT-D2-C KICS-700

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/20/94
RESPONSE TRACKING: Z3725 Z4349 Z6015 Z6573 Z6822

[PRD] DATABASE RECORD: 6483 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/15/02
INITIAL DATE: 06/01/83
ITEM NUMBER: KTY47K DATE LAST CHANGED: 06/06/07
SECTION: 3110 TIME LAST CHANGED: 08:14:43

REQUESTER: KSC JSC NASA HQ
SUBREQUESTER: MS033 XA-E1
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. DB98 KING2001 L3724 L4326 R109-27

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 6483
ITEM NUMBER: KTY47K

PRIORITY: REQUIRED
RATIONALE: THE USE OF TV, FILM, STILL AND DIGITAL PHOTOGRAPHY IS REQUIRED FOR EXTERNAL RELATIONS USE TO FULFILL NASA'S CHARTER TO PROVIDE INFORMATION TO THE PUBLIC IN THE WIDEST FORM POSSIBLE AS DIRECTED BY THE CONGRESSIONAL SPACE ACT OF 1958.

1. DESCRIPTION: PRE-MISSION ACTIVITIES
LOCATION: AS REQUIRED
CAMERA FORMAT: DIGITAL
F/L: A/R
FPS:
FILM TYPE LOAD: COLOR
INTERVAL:
F/T:
EXP.:
TIMING:
PRIME REQUESTER: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468
TECH CONTACT: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468

REMARKS: ALERT COVERAGE STARTING AT L-5 DAYS TO COVER ASTRONAUT AND PRE-MISSION ACTIVITIES. COVERAGE TO BE COORDINATED BY KSC/XA-E1 REP.

DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	ORIG DISK	1	T+24 HRS	KSC/XA-E1
2	SEL DIGITAL IMAGES	1	7 WD	JSC/AP3

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-C KICS-700

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/15/02
RESPONSE: PADD # D101

RESPONSE TRACKING: Z3725 Z4354

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 6483
ITEM NUMBER: KTY47K

[PRD] DATABASE RECORD: 6484 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/21/95
INITIAL DATE: 05/23/88
ITEM NUMBER: KTY49K DATE LAST CHANGED: 06/06/07
SECTION: 3110 TIME LAST CHANGED: 08:15:12

REQUESTER: KSC JSC NASA HQ
SUBREQUESTER: MS033 XA-E1
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. DB98 KING2001 L3724 L4326 L6108
L6520 L6711 L6820 R109-27 R26103
R26175 SHAW94
PRIORITY: REQUIRED
RATIONALE: THE USE OF TV, FILM, STILL AND DIGITAL PHOTOGRAPHY IS REQUIRED FOR EXTERNAL RELATIONS USE TO FULFILL NASA'S CHARTER TO PROVIDE INFORMATION TO THE PUBLIC IN THE WIDEST FORM POSSIBLE AS DIRECTED BY THE CONGRESSIONAL SAPCE ACT OF 1958.

1. DESCRIPTION: PRE-MISSION ACTIVITIES
LOCATION: AS REQUIRED
CAMERA FORMAT: VIDEO
F/L: A/R
FPS:
FILM TYPE LOAD: COLOR
INTERVAL:
F/T:
EXP.:
TIMING:
PRIME REQUESTER: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468
TECH CONTACT: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468

REMARKS: ALERT COVERAGE STARTING AT L-5 DAYS THRU LAUNCH TO COVER ASTRONAUT AND PRE-MISSION ACTIVITIES. VIDEO COVERAGE OF ACTIVITIES IN THE LCC FIRING ROOM AT T+10 MIN. COVERAGE TO BE COORDINATED BY KSC/XA-E1 REP.

CONTINUED

[PRD] DATABASE RECORD: 6484
ITEM NUMBER: KTY49K

DATA DISPOSITION: PHOTOGRAPHIC INFORMATION USED BY JSC FOR PAO FILE AND POST FLIGHT MEETING.

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	BETA-SP	5	60 MIN	KSC/XA-E1
2	BETA-SP	1	4 CD	JSC/AP3
3	BETA-SP	1	4 CD	HQ-PMD
4	SVHS	2	60 MIN	KSC/XA-E1

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-C KICS-700

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/21/95
RESPONSE: PADD # D103

RESPONSE TRACKING: Z2682 Z3725 Z4354 Z6115 Z6573
Z6710 Z6822

[PRD] DATABASE RECORD: 6485 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/15/02
INITIAL DATE: 03/16/88
ITEM NUMBER: KTY50K DATE LAST CHANGED: 06/06/07
SECTION: 3110 TIME LAST CHANGED: 08:15:38

REQUESTER: KSC JSC NASA HQ
SUBREQUESTER: MS033 XA-E1
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. DB98 KING2001 L3724 L3947 L4326
R109-27 R26106
PRIORITY: REQUIRED
RATIONALE: THE USE OF TV, FILM, STILL AND DIGITAL PHOTOGRAPHY IS REQUIRED FOR EXTERNAL RELATIONS USE TO FULFILL NASA'S CHARTER TO PROVIDE INFORMATION TO THE PUBLIC IN THE WIDEST FORM POSSIBLE AS DIRECTED BY THE CONGRESSIONAL

CONTINUED

[PRD] DATABASE RECORD: 6485
ITEM NUMBER: KTY50K

SPACE ACT OF 1958.

1. DESCRIPTION: CREW BREAKFAST LAUNCH DAY
LOCATION: AS REQUIRED
CAMERA FORMAT: DIGITAL
F/L: A/R
FPS:
FILM TYPE LOAD: COLOR
INTERVAL:
F/T:
EXP.:
TIMING:
PRIME REQUESTER: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468
TECH CONTACT: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468

REMARKS: CREW BREAKFAST ON MORNINGS OF FLIGHT NON-INTERFERENCE BASIS. ALSO TO COVER CREW DEPARTURE FROM O&C BLDG.

DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	ORIG DISK	1	T+24 HRS	KSC/XA-E1
2	SEL DIGITAL IMAGES	1	T+36 HRS	JSC/AP3 (TO WILLIAM JOHNSON AT KS 321 867-2468 XA-E1) FOR DELIVERY TO JSC

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-C KICS-700

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/15/02
RESPONSE: PADD # D112

RESPONSE TRACKING: Z3725 Z3988 Z4354

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 6486 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/15/02
INITIAL DATE: 03/16/88
ITEM NUMBER: KTY51K DATE LAST CHANGED: 06/06/07
SECTION: 3110 TIME LAST CHANGED: 08:16:05

REQUESTER: KSC JSC NASA HQ
SUBREQUESTER: MS033 XA-E1
TEST CODE: S51C02 STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. DB98 KING2001 L3724 L4326 L6108
L6523 L6711 L6820 R109-27 R26103
R26175 SHAW94
PRIORITY: REQUIRED
RATIONALE: THE USE OF TV, FILM, STILL AND DIGITAL PHOTOGRAPHY IS REQUIRED FOR EXTERNAL RELATIONS USE TO FULFILL NASA'S CHARTER TO PROVIDE INFORMATION TO THE PUBLIC IN THE WIDEST FORM POSSIBLE AS DIRECTED BY THE CONGRESSIONAL SPACE ACT OF 1958.

1. DESCRIPTION: CREW BREAKFAST LAUNCH DAY
LOCATION: AS REQUIRED
CAMERA FORMAT: VIDEO
F/L: A/R
FPS:
FILM TYPE LOAD: COLOR
INTERVAL:
F/T:
EXP.:
TIMING:
PRIME REQUESTER: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468
TECH CONTACT: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468

REMARKS: CREW BREAKFAST ON MORNING OF FLIGHT NON-INTERFERENCE BASIS. ALSO TO COVER DEPARTURE FROM O&C BUILDING.

DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	BETA-SP	5	60 MIN	KSC/XA-E1 (BREAKFAST/SUITING)
2	SVHS	2	60 MIN	KSC/XA-E1 (BREAKFAST/SUITING)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 6486
ITEM NUMBER: KTY51K

3	BETA-SP	1	5 WD	HQ-PMD	(COMPOSITE)
4	BETA-SP	1	4 CD	JSC/AP3	(COMPOSITE)
5	BETA-SP	5	60 MIN	KSC/XA-E1	(FIRING R00M)
6	SVHS	2	60 MIN	KSC/XA-E1	(FIRING ROOM)
7	SVHS	1	60 MIN	KSC/XA-E1	(COMPOSITE)

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-C KICS-700

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/15/02
RESPONSE: PADD # D113

RESPONSE TRACKING: Z2682 Z3725 Z4354 Z6115 Z6583
Z6710 Z6822

[PRD] DATABASE RECORD: 6488 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/15/02
INITIAL DATE: 03/16/88
ITEM NUMBER: KTY53K DATE LAST CHANGED: 06/06/07
SECTION: 3110 TIME LAST CHANGED: 08:16:23

REQUESTER: KSC JSC NASA HQ
SUBREQUESTER: MS033 XA-E1
TEST CODE: S51C05 STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 L3724 L3947 L4317 R109-27
R26106
PRIORITY: REQUIRED
RATIONALE: THE USE OF TV, FILM, STILL AND DIGITAL PHOTOGRAPHY IS REQUIRED FOR EXTERNAL RELATIONS USE TO FULFILL NASA'S CHARTER TO PROVIDE INFORMATION TO THE PUBLIC IN THE WIDEST FORM POSSIBLE AS DIRECTED BY THE CONGRESSIONAL SPACE ACT OF 1958.

1. DESCRIPTION: WHITE ROOM ACTIVITIES + CREW INGRESS
LOCATION: FSS WHITE RM.
CAMERA FORMAT: DIGITAL
F/L: A/R

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 6488
ITEM NUMBER: KTY53K

FPS:
FILM TYPE LOAD: COLOR
F/T:
EXP.:
TIMING:
PRIME REQUESTER: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468
TECH CONTACT: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468

REMARKS: FIXED SEQUENTIAL-STILL COVERAGE OF CREW INGRESS AND WHITE ROOM ACTIVITIES PRIOR TO LAUNCH. REMOTE ACTIVATED ITEM.

DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	ORIG DISC	1	ACCESS+4	KSC/XA-E1
2	ORIG or DIGITAL IMAGES	1	ACCESS +36 HRS	JSC/AP3 (TO WILLIAM JOHNSON AT KSC 321 867-2468 FOR DELIVERY TO JSC)

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-C KICS-700 XA-E1

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/15/02
RESPONSE: PADD # D32

RESPONSE TRACKING: Z3725 Z3988 Z4345

[PRD] DATABASE RECORD: 6490 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/15/02
INITIAL DATE: 03/16/88
ITEM NUMBER: HKT55K DATE LAST CHANGED: 06/06/07
SECTION: 3110 TIME LAST CHANGED: 08:16:42

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/AP3 XA-E1
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. DB98 KING2001 L103-6 L3947 L4326

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 6490
ITEM NUMBER: HKT55K

L504-1 L6601 R109-27 R26106 R7005

PRIORITY: REQUIRED
RATIONALE: THE USE OF TV, FILM, STILL AND DIGITAL PHOTOGRAPHY IS REQUIRED FOR EXTERNAL RELATIONS USE TO FULFILL NASA'S CHARTER TO PROVIDE INFORMATION TO THE PUBLIC IN THE WIDEST FORM POSSIBLE AS DIRECTED BY THE CONGRESSIONAL SPACE ACT OF 1958.

1. DESCRIPTION: IGN & LIFTOFF
LOCATION: OFF-COMPLEX
CAMERA FORMAT: 6X6CM/DIGITAL/35MM
F/L: A/R
FPS:
FILM TYPE LOAD: 2 COLOR
INTERVAL:
F/T:
EXP.:
TIMING:
PRIME REQUESTER: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468
TECH CONTACT: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468
MSFC/CD70/DOM AMATORE/256 544-6533

REMARKS: SEQUENTIAL STILL COVERAGE OF IGNITION & LIFTOFF FROM 2 CAMERA POSITIONS JUST OUTSIDE PERIMETER FENCE. REMOTE STARTS REQ'D TOTAL 3 CAMERAS.

DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	ORIG	1	ACCESS+6 HRS	KSC/XA-E1 FOR SELECTION
2	ORIG NEG	2	ACCESS +24 HRS	JSC/AP3 (WILLIAM JOHNSON AT KS (321 867-2468, XA-E1 FOR DELIVERY TO JSC)
3	ORIG OR DUPE NEG	1	7 WD	MSFC/CD70/DOM AMATORE/ 256 544-6533

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 6490
ITEM NUMBER: HKT55K

SUBSUPPLIER: IT-D2-C KICS-700

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/15/02
RESPONSE: PADD # D75,76,77

RESPONSE TRACKING: Z3988 Z4354 Z6911

[PRD] DATABASE RECORD: 6492 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/15/02
INITIAL DATE: 06/01/83
ITEM NUMBER: HKT57K DATE LAST CHANGED: 06/06/07
SECTION: 3110 TIME LAST CHANGED: 08:17:02

REQUESTER: MSFC KSC JSC
SUBREQUESTER: XA-E1
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. DB98 KING2001 L3947 R109-27 R26106
PRIORITY: REQUIRED
RATIONALE: THE USE OF TV, FILM, STILL AND DIGITAL PHOTOGRAPHY IS REQUIRED FOR EXTERNAL RELATIONS USE TO FULFILL NASA'S CHARTER TO PROVIDE INFORMATION TO THE PUBLIC IN THE WIDEST FORM POSSIBLE AS DIRECTED BY THE CONGRESSIONAL SPACE ACT OF 1958.

1. DESCRIPTION: IGN & LIFTOFF
   LOCATION: OFF-COMPLEX
   CAMERA FORMAT: 35MM OR DIGITAL
   F/L: A/R
   FPS:
   FILM TYPE LOAD: 3 COLOR
   INTERVAL:
   F/T:
   EXP.:
   TIMING:
   PRIME REQUESTER: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468
   TECH CONTACT: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468
   MSFC/CD70/DOM AMATORE/256 544-6533

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 6492
ITEM NUMBER: HKT57K

REMARKS: SEQUENTIAL STILL COVERAGE OF IGNITION AND LIFTOFF FROM 3 CAMERA POSITIONS JUST OUTSIDE PERIMETER FENCE. REMOTE STARTS REQUIRED. TOTAL 3 CAMERAS.

DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	ORIG	1	ACCESS+4 HRS	KSC/XA-E1
2	ORIG or DUPE NEG	1	7 WD	JSC/AP3
3	ORIG or DUPE NEG	1	7 WD	MSFC/CD70/DOM AMATORE 256 544-6533

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-C KICS-700

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/15/02
RESPONSE: PADD # D67, D80, D87

RESPONSE TRACKING: Z3988 Z4354

[PRD] DATABASE RECORD: 6493 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/15/02
INITIAL DATE: 03/16/88
ITEM NUMBER: HKTY58K DATE LAST CHANGED: 06/06/07
SECTION: 3110 TIME LAST CHANGED: 08:17:23

REQUESTER: MSFC KSC JSC
NASA HQ
SUBREQUESTER: XA-E1
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. DB98 KING2001 L3947 L4326 R109-27
R26106
PRIORITY: REQUIRED

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 6493
ITEM NUMBER: HKTY58K

RATIONALE: THE USE OF TV, FILM, STILL AND DIGITAL PHOTOGRAPHY IS REQUIRED FOR EXTERNAL RELATIONS USE TO FULFILL NASA'S CHARTER TO PROVIDE INFORMATION TO THE PUBLIC IN THE WIDEST FORM POSSIBLE AS DIRECTED BY THE CONGRESSIONAL SPACE ACT OF 1958.

1. DESCRIPTION: IGN & LIFTOFF
   LOCATION: LC-39
   CAMERA FORMAT: 6X6CM/DIGITAL/35MM
   F/L: A/R
   FPS:
   FILM TYPE LOAD: 3 COLOR
   INTERVAL:
   F/T:
   EXP.:
   TIMING:
   PRIME REQUESTER: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468
   TECH CONTACT: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468
   MSFC/CD70/DOM AMATORE/256 544-6533

   REMARKS: FIXED SEQUENTIAL-STILL COVERAGE OF
   IGNITION AND LIFTOFF FROM 3 PERIMETER SITES.
   REMOTE STARTS REQUIRED TOTAL 3 CAMERAS.

   DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	ORIG	1	ACCESS+6	KSC/XA-E1
2	ORIG OR DUPE NEG	1	ACCESS+24 HRS	JSC/AP3(TO WILLIAM JOHNSON AT KSC 321 867-2468, XA-E1 FOR DELIVERY TO JSC)
3	ORIG OR DUPE NEG	1	7 WD	MSFC/CD70/DOM AMATORE/ 256 544-6533

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-C KICS-700 XA-E1

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 6493
ITEM NUMBER: HKTY58K

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/15/02
RESPONSE: PADD # D56,57,58

RESPONSE TRACKING: Z3988 Z4354

[PRD] DATABASE RECORD: 6495 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/13/97
INITIAL DATE: 03/16/88
ITEM NUMBER: T60K DATE LAST CHANGED: 06/06/07
SECTION: 3110 TIME LAST CHANGED: 08:17:50

REQUESTER: JSC
SUBREQUESTER: JSC/AP4 MS073 MS179
TEST CODE: S51C02 STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 L4814 L504-1 L6011 L611-2
L6806 L701-3 L8206 L8309 R109-27
R26103 R26175 R7005 R8101 SHAW94

1. DESCRIPTION: IGN & LIFTOFF
LOCATION: LC-39
CAMERA FORMAT: 16MM
F/L: A/R
FPS: 32
FILM TYPE LOAD: 3 COLOR
INTERVAL:
F/T:
EXP.:
TIMING:

PRIME REQUESTERS: CARLOS FONTANOT/JSC/AP3/281 483-2398
TECH CONTACTS: CARLOS FONTANOT/JSC/AP3/281 483-2398

REMARKS: FIXED COVERAGE OF IGNITION AND LIFTOFF FROM 3 PERIMETER SITES, CONTINGENT ON SUN ANGLE, REMOTE STARTS REQUIRED. TOTAL 3 CAMERAS.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 6495
ITEM NUMBER: T60K

DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	BETA-SP	1	4 CD	JSC/AP3 (COMPOSITE)

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-C KICS-700

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/13/97
RESPONSE: PADD # D50,51,52

RESPONSE TRACKING: Z2682 Z4819 Z6025 Z6805 Z6911
Z8129 Z8213 Z8321

[PRD] DATABASE RECORD: 6500 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/15/02
INITIAL DATE: 03/16/88
ITEM NUMBER: KT65K DATE LAST CHANGED: 06/06/07
SECTION: 3110 TIME LAST CHANGED: 08:18:09

REQUESTER: KSC JSC
SUBREQUESTER: JSC/AP3 MS033 XA-E1
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. DB98 KING2001 L103-6 L3724 L3947
L4335 L6601 R109-27 R26106 R7005
PRIORITY: REQUIRED
RATIONALE: THE USE OF TV, FILM, STILL AND DIGITAL PHOTOGRAPHY IS REQUIRED FOR EXTERNAL RELATIONS USE TO FULFILL NASA'S CHARTER TO PROVIDE INFORMATION TO THE PUBLIC IN THE WIDEST FORM POSSIBLE AS DIRECTED BY THE CONGRESSIONAL SPACE ACT OF 1958.

1. DESCRIPTION: IGN & LIFTOFF
LOCATION: FSS 255' LVL.
CAMERA FORMAT: 35MM STILL/DIGITAL

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 6500
ITEM NUMBER: KT65K

F/L: A/R
FPS:
FILM TYPE LOAD: COLOR
INTERVAL:
F/T:
EXP.:
TIMING:
PRIME REQUESTER: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468
TECH CONTACT: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468

REMARKS: SEQUENTIAL-STILL COVERAGE LOOKING DOWN OR UP AT ORBITER DURING IGNITION AND LIFTOFF.
* JSC/AP3 = 1 OR 2 VIEWS ONLY

DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	ORIG	1	ACCESS+4 HRS	KSC/XA-E1
2	SEL ORIG	1	ACCESS+24 HRS	* JSC/AP3 TO WILLIAM JOHNSON AT KSC (321 867-2468, XA-E1 FOR DELIVERY TO JSC)

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-C KICS-700

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/15/02
RESPONSE: PADD # D36

RESPONSE TRACKING: Z3725 Z3988 Z4361 Z7005

[PRD] DATABASE RECORD: 6501 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/15/02
INITIAL DATE: 03/16/88
ITEM NUMBER: KT66K DATE LAST CHANGED: 06/06/07

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 6501
ITEM NUMBER: KT66K

SECTION: 3110 TIME LAST CHANGED: 08:18:30

REQUESTER: KSC JSC
SUBREQUESTER: JSC/AP3 MS179 XA-E1
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. DB98 KING2001 L103-6 L3947 L4335
L504-1 L6601 L6806 R109-27 R26106
R7005 SHAW94
PRIORITY: REQUIRED
RATIONALE: THE USE OF TV, FILM, STILL AND DIGITAL PHOTOGRAPHY IS REQUIRED FOR EXTERNAL RELATIONS USE TO FULFILL NASA'S CHARTER TO PROVIDE INFORMATION TO THE PUBLIC IN THE WIDEST FORM POSSIBLE AS DIRECTED BY THE CONGRESSIONAL SPACE ACT OF 1958.

1. DESCRIPTION: IGN & LIFTOFF
LOCATION: FSS 275' LVL.
CAMERA FORMAT: 35MM/DIGITAL
F/L: A/R
FPS:
FILM TYPE LOAD: COLOR
INTERVAL:
F/T:
EXP.:
TIMING:
PRIME REQUESTER: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468
TECH CONTACT: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468

REMARKS: SEQUENTIAL-STILL COVERAGE LOOKING DOWN AT ENTIRE LAUNCH VEHICLE DURING IGNITION AND LIFTOFF.
* JSC/AP3 = 1 OR 2 VIEWS ONLY

DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	ORIG	1	ACCESS+4 HRS	KSC/XA-E1
2	SEL ORIG	1	ACCESS+24 HRS	* JSC/AP3(TO W. JOHNSON AT KSC

CONTINUED

[PRD] DATABASE RECORD: 6501
ITEM NUMBER: KT66K

(321 867-2468, XA-E1 FOR
DELIVERY TO JSC)

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-C KICS-700 XA-E1

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/15/02
RESPONSE: PADD # D39

RESPONSE TRACKING: Z3988 Z4361 Z6805 Z7005

[PRD] DATABASE RECORD: 6505 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/29/95
INITIAL DATE: 05/23/88
ITEM NUMBER: KT70K DATE LAST CHANGED: 06/06/07
SECTION: 3110 TIME LAST CHANGED: 08:19:01

REQUESTER: KSC JSC
SUBREQUESTER: JSC/AP3 MS033 XA-E1
TEST CODE: S51C02 STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. DB98 KING2001 L3721 L4335 L501-1
L6108 L6520 R109-27 R26103 R26175
R4502 R7005 SHAW94
PRIORITY: REQUIRED
RATIONALE: THE USE OF TV, FILM, STILL AND DIGITAL PHOTOGRAPHY IS REQUIRED FOR EXTERNAL RELATIONS USE TO FULFILL NASA'S CHARTER TO PROVIDE INFORMATION TO THE PUBLIC IN THE WIDEST FORM POSSIBLE AS DIRECTED BY THE CONGRESSIONAL SPACE ACT OF 1958.

1. DESCRIPTION: LONG RANGE TRACKING CAMERAS - LAUNCH
LOCATION: AS REQUIRED
CAMERA FORMAT: VIDEO
F/L: A/R
FPS: A/R

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 6505
ITEM NUMBER: KT70K

FILM TYPE LOAD: COLOR
INTERVAL:
F/T:
EXP.:
TIMING:
PRIME REQUESTER: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468
TECH CONTACT: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468

REMARKS: COVERAGE OF ENTIRE VEHICLE FROM ACQUISITION TO LOV
USING LONG RANGE TRACKING CAMERAS. MASTERS FROM
ENG.-SEQ. ORIGINALS WILL BE PROVIDED.
* JSC/AP3 DOES NOT NEED PADD #D207

DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	BETA-SP	1	4 CD	KSC/XA-E1
2	BETA-SP	1	4 CD	* JSC/AP3

NOTE: SEE DBR 006511 SECT 3110 ITEM HKTY81K FOR "STRING OUT" REQ'MT.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-C KICS-700

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/29/95
RESPONSE: PADD # D206, D207

RESPONSE TRACKING: Z2682 Z3720 Z4361 Z4502 Z6115
Z6573 Z7005

[PRD] DATABASE RECORD: 6507 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/21/94
INITIAL DATE: 05/23/88
ITEM NUMBER: KTY72K DATE LAST CHANGED: 06/06/07
SECTION: 3110 TIME LAST CHANGED: 08:19:28

REQUESTER: KSC JSC NASA HQ
SUBREQUESTER: MS033 MS179 XA-E1

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 6507
ITEM NUMBER: KTY72K

TEST CODE: S51C02 STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. DB98 KING2001 L3721 L4335 L6011
L6108 L6806 R109-27 R26103 R26175
R4502 SHAW94
PRIORITY: REQUIRED
RATIONALE: THE USE OF TV, FILM, STILL AND DIGITAL PHOTOGRAPHY IS REQUIRED FOR EXTERNAL RELATIONS USE TO FULFILL NASA'S CHARTER TO PROVIDE INFORMATION TO THE PUBLIC IN THE WIDEST FORM POSSIBLE AS DIRECTED BY THE CONGRESSIONAL SPACE ACT OF 1958.

1. DESCRIPTION: TRACK - LIFTOFF
LOCATION: VAB ROOF/PAD, EAST SIDE
CAMERA FORMAT: VIDEO
F/L: A/R
FPS:
FILM TYPE LOAD: COLOR
INTERVAL:
F/T:
EXP.:
TIMING:
PRIME REQUESTER: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468
TECH CONTACT: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468

REMARKS: VIDEO TRACKING COVERAGE OF LIFTOFF THRU LOV.

DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	BETA-SP	1	4 CD	KSC/XA-E1
2	BETA-SP	1	4 CD	JSC/AP3

NOTE: SEE DBR 006511 SECT 3110 ITEM HKTY81K FOR "STRING OUT" REQUIREMENT.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

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[PRD] DATABASE RECORD: 6507
ITEM NUMBER: KTY72K

SUBSUPPLIER: IT-D2-C KICS-700

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/21/94
RESPONSE: PADD # D121

RESPONSE TRACKING: Z2682 Z3720 Z4361 Z4502 Z6025
Z6115 Z6805

[PRD] DATABASE RECORD: 6510 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/15/02
INITIAL DATE: 03/16/88
ITEM NUMBER: HK79K DATE LAST CHANGED: 06/06/07
SECTION: 3110 TIME LAST CHANGED: 08:19:46

REQUESTER: MSFC KSC
SUBREQUESTER: XA-E1
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. DB98 KING2001 L4335 L504-1 L6601
R109-27 R26106 R4505 R7005
PRIORITY: REQUIRED
RATIONALE: THE USE OF TV, FILM, STILL AND DIGITAL PHOTOGRAPHY IS REQUIRED FOR EXTERNAL RELATIONS USE TO FULFILL NASA'S CHARTER TO PROVIDE INFORMATION TO THE PUBLIC IN THE WIDEST FORM POSSIBLE AS DIRECTED BY THE CONGRESSIONAL SPACE ACT OF 1958.

1. DESCRIPTION: STILL COVERAGE OF FIRING ROOM
LOCATION: LCC FIRING ROOM
CAMERA FORMAT: STILL OR DIGITAL
F/L: A/R
FPS:
FILM TYPE LOAD: COLOR
INTERVAL:
F/T:
EXP.:
TIMING:
PRIME REQUESTER: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 6510
ITEM NUMBER: HK79K

TECH CONTACT: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468
MSFC/CD70/DOM AMATORE/256 544-6533

REMARKS: STILL COVERAGE OF ACTIVITIES IN LCC FIRING ROOM
AT T+10 MIN.

DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	ORG + PF SHEET	1	T+4 HRS	KSC/XA-E1
2	SEL ORG NEG	1	5 WD	HQ-PMD
3	SEL ORG NEG	1	5 WD	MSFC/CD70/DOM AMATORE/ 256 544-6533

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-C KICS-700

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/15/02
RESPONSE: PADD # D125

RESPONSE TRACKING: Z4361 Z4505 Z7005

[PRD] DATABASE RECORD: 6511 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/15/02
INITIAL DATE: 03/16/88
ITEM NUMBER: HKY81K DATE LAST CHANGED: 06/06/07
SECTION: 3110 TIME LAST CHANGED: 08:20:06

REQUESTER: MSFC KSC NASA HQ
SUBREQUESTER: XA-E1
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. DB98 KING2001 L103-6 L3947 L4335
L504-1 L6108 L6517 L8309 L8310
R109-27 R26103 R4502 R7005
PRIORITY: REQUIRED
RATIONALE: THE USE OF TV. FILM, STILL AND DIGITAL PHOTOGRAPHY IS

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

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[PRD] DATABASE RECORD: 6511
ITEM NUMBER: HKY81K

REQUIRED FOR EXTERNAL RELATIONS USE TO FULFILL NASA'S CHARTER TO PROVIDE INFORMATION TO THE PUBLIC IN THE WIDEST FORM POSSIBLE AS DIRECTED BY THE CONGRESSIONAL SPACE ACT OF 1958.

1. DESCRIPTION: SILENT STRINGOUT OF LAUNCH ITEMS
LOCATION: KSC
CAMERA FORMAT: VIDEO
F/L:
FPS:
FILM TYPE LOAD:
INTERVAL:
F/T:
EXP.:
TIMING:
PRIME REQUESTER: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468
TECH CONTACT: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468
MSFC/CD70/DOM AMATORE/256 544-6533

REMARKS: KSC TO PRODUCE SILENT STRINGOUT OF SELECTED LAUNCH ITEMS, APPROX. SIX MINUTES IN LENGTH (POST LAUNCH ITEM)

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	BETA-SP	2	4 CD	KSC/XA-E1
2	BETA-SP	1	4 CD	HQ-PMD
3	BETA-SP	1	4 CD	MAF/LMC/MARION LANASA/ 504 257-1307

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-C KICS-700

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/15/02

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

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[PRD] DATABASE RECORD: 6511
ITEM NUMBER: HKY81K

RESPONSE: PADD # D126

RESPONSE TRACKING: Z3988 Z4361 Z4502 Z6115 Z6580
Z7005 Z8321 Z8323

[PRD] DATABASE RECORD: 6515 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/10/91
INITIAL DATE: 06/01/83
ITEM NUMBER: HY85KT DATE LAST CHANGED: 06/06/07
SECTION: 3110 TIME LAST CHANGED: 08:20:20

REQUESTER: MSFC NASA HQ
SUBREQUESTER: MS033
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 L103-6 L3548 L3721 L3947
L4335 R109-27
PRIORITY: REQUIRED
RATIONALE: PHOTOGRAPHIC SUPPORT

1. DESCRIPTION: ONBOARD PHOTO
LOCATION: JSC
CAMERA FORMAT: 16MM
F/L:
FPS:
FILM TYPE LOAD: COLOR
INTERVAL:
F/T:
EXP.:
TIMING:
PRIME REQUESTER: KSC/WILLIAM JOHNSON/XA-E1/321 867-2468
TECH CONTACT: JSC/BILLIE DEASON/AP2/281 483-8646
MSFC/CD70/DOM AMATORE/256 544-6533

REMARKS: PROCESS AND RELEASE OF SELECTED ONBOARD MOTION
PICTURE FILM.
PROCESSING AND DISPOSITION

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

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[PRD] DATABASE RECORD: 6515
ITEM NUMBER: HY85KT

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	IPA + RP	1	7 WD	HQ-PMD
2	IPA	1	7 WD	MSFC/CD70/DOM AMATORE/ 256 544-6533

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-C KICS-700

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/14/97
RESPONSE TRACKING: Z8707

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
SUBSUPPLIER: JSC/JL5 Z3720 Z3816
Z3988 Z4361

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/10/91
RESPONSE:

RESPONSE TRACKING: Z3720 Z3816 Z3988 Z4361

[PRD] DATABASE RECORD: 6518 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/15/02
INITIAL DATE: 06/01/83
ITEM NUMBER: HKXY88T DATE LAST CHANGED: 03/20/07
SECTION: 3110 TIME LAST CHANGED: 13:57:16

REQUESTER: MSFC KSC DFRC
NASA HQ
SUBREQUESTER: MS033 XA-E1
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. DB98 KING2001 L103-6 L3548 L3721
L3947 L4335 R109-27
PRIORITY: REQUIRED

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 6518
ITEM NUMBER: HKXY88T

RATIONALE: THE USE OF TV, FILM, STILL AND DIGITAL PHOTOGRAPHY IS REQUIRED FOR EXTERNAL RELATIONS USE TO FULFILL NASA'S CHARTER TO PROVIDE INFORMATION TO THE PUBLIC IN THE WIDEST FORM POSSIBLE AS DIRECTED BY THE CONGRESSIONAL SPACE ACT OF 1958.

1. DESCRIPTION: ONBOARD COVERAGE
   LOCATION: JSC
   CAMERA FORMAT: STILL/DIGITAL
   F/L:
   FPS:
   FILM TYPE LOAD: COLOR
   INTERVAL:
   F/T:
   EXP.:
   TIMING:
   PRIME REQUESTER: KSC/WILLIAM JOHNSON/XA-E1/321 861-2468
   TECH CONTACT: JSC/BILLIE DEASON/AP2/281 483-8646
   MSFC/CD70/DOM AMATORE/256 544-6533

   REMARKS: PROCESS AND RELEASE OF ONBOARD STILL COVERAGE.

   DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	8X10 CL PRINT	2	-	KSC/XA-E1
2	DUPE NEGS	2	-	MSFC/CD70/DOM AMATORE/ 256 544-6533
3	8X10 CL PRINT	2	-	HQ-PMD
4	" "	2	-	DFRC/PAO
5	DUPE NEGS TRANS (PR ONLY)	1	-	KSC/XA-E1

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
SUBSUPPLIER: JSC/JL5
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/15/02
RESPONSE TRACKING: Z3720 Z3816 Z3988 Z4361

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

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[PRD] DATABASE RECORD: 6518
ITEM NUMBER: HKXY88T

[PRD] DATABASE RECORD: 6521 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/15/02
INITIAL DATE: 06/01/83
ITEM NUMBER: KTY92K DATE LAST CHANGED: 06/06/07
SECTION: 3110 TIME LAST CHANGED: 08:20:47

REQUESTER: KSC JSC NASA HQ
SUBREQUESTER: JSC/AP3 MS033 MS179 XA-E1
TEST CODE: STSALL

ASSOCIATED DOC: 20028S
TRACKING NO. DB98 KING2001 L3721 L504-1 L6601
L7906 R109-27 R2809 R7005 SHAW94
PRIORITY: REQUIRED
RATIONALE: THE USE OF TV, FILM, STILL AND DIGITAL PHOTOGRAPHY IS REQUIRED FOR EXTERNAL RELATIONS USE TO FULFILL NASA'S CHARTER TO PROVIDE INFORMATION TO THE PUBLIC IN THE WIDEST FORM POSSIBLE AS DIRECTED BY THE CONGRESSIONAL SPACE ACT OF 1958.

1. DESCRIPTION: FIXED VIEW OF ORB TOUCHDOWN
LOCATION: SLF
CAMERA FORMAT: STILL/DIGITAL
F/L: A/R
FPS:
FILM TYPE LOAD: COLOR
INTERVAL:
F/T:
EXP.:
TIMING:
PRIME REQUESTER: KSC/WILLIAM JOHNSON/XA-E1/321 867-2468
TECH CONTACT: KSC/WILLIAM JOHNSON/XA-E1/321 867-2468

REMARKS: FIXED VIEW OF ORB TOUCHDOWN. CAMERA ADJACENT TO RUNWAY. REMOTE START REQUIRED. RTLS AND EOM.

DATA DISPOSITION:

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

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[PRD] DATABASE RECORD: 6521
ITEM NUMBER: KTY92K

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	ORG	1	3 HRS	KSC/XA-E1 REP
2	ORIG OR DUPE NEG	1	-	JSC/AP3
3	8X10 CL PRINT	2	-	HQ-PMD

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-C KICS-700

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/15/02
RESPONSE: PADD # DL5, DL6, DL7, DL8

RESPONSE TRACKING: Z3720 Z6911

[PRD] DATABASE RECORD: 6522 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/15/02
INITIAL DATE: 06/01/83
ITEM NUMBER: HKT93K DATE LAST CHANGED: 06/06/07
SECTION: 3110 TIME LAST CHANGED: 08:21:08

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/AP3 MS033 XA-E1
TEST CODE: STSALL

ASSOCIATED DOC: 20028S
TRACKING NO. DB98 KING2001 L3721 L504-1 L6601
R109-27 R2809 R7005
PRIORITY: REQUIRED
RATIONALE: THE USE OF TV, FILM, STILL AND DIGITAL PHOTOGRAPHY IS REQUIRED FOR EXTERNAL RELATIONS USE TO FULFILL NASA'S CHARTER TO PROVIDE INFORMATION TO THE PUBLIC IN THE WIDEST FORM POSSIBLE AS DIRECTED BY THE CONGRESSIONAL SPACE ACT OF 1958.

1. DESCRIPTION: FIXED VIEW OF ORB TOUCHDOWN
LOCATION: SLF
CAMERA FORMAT: 70MMDF/35MM/DIGITAL
F/L: 7 INCHES

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

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[PRD] DATABASE RECORD: 6522
ITEM NUMBER: HKT93K

FPS: 10
FILM TYPE LOAD: COLOR
INTERVAL:
F/T:
EXP.:
TIMING:
PRIME REQUESTER: KSC/WILLIAM JOHNSON/XA-E1/321 867-2468
TECH CONTACT: KSC/WILLIAM JOHNSON/XA-E1/321 867-2468
MSFC/CD70/DOM AMATORE/256 544-6533

REMARKS: FIXED VIEW OF ORB TOUCHDOWN, CAMERA ADJACENT TO TOUCHDOWN POINT. (EOM AND RTLS)

DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	ORG	1	8 HRS	KSC/XA-E1 REP
2	ORIG OR DUPE NEGS	1	-	JSC/AP3
3	ORIG OR DUPE NEGS	2	-	MSFC/CD70/DOM AMATORE/ 256 544-6533
4	8X10 CL PRINT	2	-	HQ-PMD

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-C KICS-700

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/15/02
RESPONSE: PADD # DL1, DL2

RESPONSE TRACKING: Z3720 Z6911

[PRD] DATABASE RECORD: 6523 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/15/02
INITIAL DATE: 06/01/83
ITEM NUMBER: HKT94K DATE LAST CHANGED: 06/06/07
SECTION: 3110 TIME LAST CHANGED: 08:21:28

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

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[PRD] DATABASE RECORD: 6523
ITEM NUMBER: HKT94K

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/AP3 MS033 XA-E1
TEST CODE: STSALL

ASSOCIATED DOC: 20028S
TRACKING NO. DB98 KING2001 L3721 L504-1 L6601
R109-27 R2809 R7005
PRIORITY: REQUIRED
RATIONALE: THE USE OF TV, FILM, STILL AND DIGITAL PHOTOGRAPHY IS REQUIRED FOR EXTERNAL RELATIONS USE TO FULFILL NASA'S CHARTER TO PROVIDE INFORMATION OT THE PUBLIC IN THE WIDEST FORM POSSIBLE AS DIRECTED BY THE CONGRESSIONAL SPACE ACT OF 1958.

1. DESCRIPTION: FIXED VIEW OF ORB TOUCHDOWN
LOCATION: SLF
CAMERA FORMAT: 6x6CM/35MM/DIGITAL
F/L: A/R
FPS:
FILM TYPE LOAD: COLOR
INTERVAL:
F/T:
EXP.:
TIMING:
PRIME REQUESTER: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468
TECH CONTACT: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468
MSFC/CD70/DOM AMATORE/256 544-6533

REMARKS: FIXED VIEW OF ORB TOUCHDOWN. CAMERA ADJACENT TO RUNWAY. REMOTE START REQUIRED. RTLS AND EOM.

DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	ORG	1	3 HRS	KSC/XA-E1 REP
2	ORIG OR DUPE NEGS	1	-	JSC/AP3
3	ORIG OR	2	-	MSFC/CD70/DOM AMATORE

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

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[PRD] DATABASE RECORD: 6523
ITEM NUMBER: HKT94K

256 544-6533

	DUPE NEGS				
4	8X10 CL PRINT	2	-	HQ-PMD	

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-C KICS-700

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/15/02
RESPONSE: PADD #DL11, DL12

RESPONSE TRACKING: Z3720 Z6911

[PRD] DATABASE RECORD: 6524 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/15/02
INITIAL DATE: 05/01/86
ITEM NUMBER: KTY95K DATE LAST CHANGED: 06/06/07
SECTION: 3110 TIME LAST CHANGED: 08:21:52

REQUESTER: KSC JSC NASA HQ
SUBREQUESTER: XA-E1
TEST CODE: STSALL

ASSOCIATED DOC: 20028S
TRACKING NO. DB98 KING2001 L3562 L5226 R109-27
R2809
PRIORITY: REQUIRED
RATIONALE: THE USE OF TV, FILM, STILL AND DIGITAL PHOTOGRAPHY IS REQUIRED FOR EXTERNAL RELATIONS USE TO FULFILL NASA'S CHARTER TO PROVIDE INFORMATION TO THE PUBLIC IN THE WIDEST FORM POSSIBLE AS DIRECTED BY THE CONGRESSIONAL SPACE ACT OF 1958.

1. DESCRIPTION: ORB LANDING
LOCATION: SLF
CAMERA FORMAT: 70MM SEQ. STILL/35MM/DIGITAL
F/L: A/R
FPS: 5
FILM TYPE LOAD: COLOR
INTERVAL:

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 6524
ITEM NUMBER: KTY95K

F/T:
EXP.:
TIMING:
PRIME REQUESTER: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468
TECH CONTACT: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468

REMARKS: TRACKING COVERAGE OF ORB LANDING FROM A SITE
APPROX. MIDPOINT OF RUNWAY. RTLS AND EOM.

DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	ORG	1	6 HRS	KSC/AB-F1 REP
2	SEL ORIG NEG	1	-	JSC/AP3
3	SEL ORIG NEG	1	-	HQ-PMD

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-C KICS-700

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/15/02
RESPONSE: PADD # DL13, DL14, DL15, DL16

RESPONSE TRACKING: Z4112 Z5226

[PRD] DATABASE RECORD: 6525 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/21/95
INITIAL DATE: 05/01/86
ITEM NUMBER: KT96K DATE LAST CHANGED: 06/06/07
SECTION: 3110 TIME LAST CHANGED: 08:22:17

REQUESTER: KSC JSC
SUBREQUESTER: XA-E1
TEST CODE: STSALL

ASSOCIATED DOC: 20028S
TRACKING NO. DB98 KING2001 L3562 L5226 L6001
L6520 L6601 L6711 R109-27 R2809

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 6525
ITEM NUMBER: KT96K

SHAW94
PRIORITY: REQUIRED
RATIONALE: THE USE OF TV, FILM, STILL OR DIGITAL PHOTOGRAPHY IS REQUIRED FOR EXTERNAL RELATIONS USE TO FULFILL NASA'S CHARTER TO PROVIDE INFORMATION TO THE PUBLIC IN THE WIDEST FORM POSSIBLE AS DIRECTED BY THE CONGRESSIONAL SPACE ACT OF 1958.

1. DESCRIPTION: ROLLOUT & CREW EGRESS
LOCATION: CONVOY - SLF
CAMERA FORMAT: VIDEO
F/L: A/R
FPS:
FILM TYPE LOAD: COLOR
INTERVAL:
F/T:
EXP.:
TIMING:
PRIME REQUESTER: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468
TECH CONTACT: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468

REMARKS: ALERT COVERAGE OF ROLLOUT AND CREW EGRESS RTLS AND EOM.

DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	BETA-SP	5	60-MIN	KSC/XA-E1 (ROLLOUT/EGRESS)
2	SVHS	1	60-MIN	KSC/XA-E1 (ROLLOUT/EGRESS)
3	BETA-SP	1	5WD	HQ-PMD (COMPOSITE)
4	BETA-SP	1	5WD	JSC/AP3 (COMPOSITE)
5	BETA-SP	5	60-MIN	KSC/XA-E1 (DEPARTURE)
6	SVHS	1	60-MIN	KSC/XA-E1 (DEPARTURE)
7	SVHS	1	60 MIN	KSC/XA-E1 (DEPARTURE)

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)

CONTINUED

[PRD] DATABASE RECORD: 6525
ITEM NUMBER: KT96K

SUBSUPPLIER: IT-D2-C KICS-700

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/21/95
RESPONSE: PADD # DL30

RESPONSE TRACKING: Z26151 Z4112 Z5226 Z6015 Z6573
Z6710

[PRD] DATABASE RECORD: 6526 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/15/02
INITIAL DATE: 05/01/86
ITEM NUMBER: KY97K DATE LAST CHANGED: 06/06/07
SECTION: 3110 TIME LAST CHANGED: 08:22:36

REQUESTER: KSC NASA HQ
SUBREQUESTER: MS033 XA-E1
TEST CODE: STSALL

ASSOCIATED DOC: 20028S
TRACKING NO. DB98 KING2001 L3724 L504-1 R109-27
R2809 R7005
PRIORITY: REQUIRED
RATIONALE: THE USE OF TV, FILM STILL AND DIGITAL PHOTOGRAPHY IS REQUIRED FOR EXTERNAL RELATIONS USE TO FULFILL NASA'S CHARTER TO PROVIDE INFORMATION TO THE PUBLIC IN THE WIDEST FORM POSSIBLE AS DIRECTED BY THE CONGRESSIONAL SPACE ACT OF 1958.

1. DESCRIPTION: ROLLOUT & CREW EGRESS
LOCATION: CONVOY - SLF
CAMERA FORMAT: 6X6CM/35MM/DIGITAL
F/L: A/R
FPS:
FILM TYPE LOAD: COLOR
INTERVAL:
F/T:
EXP.:
TIMING:
PRIME REQUESTER: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 6526
ITEM NUMBER: KY97K

TECH CONTACT: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468

REMARKS: ALERT COVERAGE OF ROLLOUT AND CREW EGRESS.
RTLS AND EOM.

DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	ORG	1	3 HRS	KSC/XA-E1 REP
2	8X10 CL PRINT	2	-	HQ-PMD

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-C KICS-700

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/15/02
RESPONSE: PADD # DL31

RESPONSE TRACKING: Z26151 Z3725 Z7005

[PRD] DATABASE RECORD: 6528 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/15/02
INITIAL DATE: 05/01/86
ITEM NUMBER: KTY99K DATE LAST CHANGED: 06/06/07
SECTION: 3110 TIME LAST CHANGED: 08:22:55

REQUESTER: KSC JSC NASA HQ
SUBREQUESTER: JSC/AP3 MS033 MS179 XA-E1
TEST CODE: STSALL

ASSOCIATED DOC: 20028S
TRACKING NO. KING2001 L3721 L504-1 L5226 L6806
R109-27 R2809 R7005 SHAW94

1. DESCRIPTION: ORB LANDING FLARE
LOCATION: END OF R/W - SLF
CAMERA FORMAT: 35 MM STILL/DIGITAL
F/L: A/R

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 6528
ITEM NUMBER: KTY99K

FPS: N/A
FILM TYPE LOAD: COLOR
INTERVAL:
F/T: F
EXP.:
TIMING:
PRIME REQUESTER: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468
TECH CONTACT: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468

REMARKS: CAMERA AT END OF RUNWAY LOOKING AWAY FROM RUNWAY AT ORB DURING FINAL FLARE. REMOTE ITEM FOR EOM.

DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	ORG	1	3 HRS	KSC/XA-E1 REP
2	ORIG OR DUPE NEGS	1	-	JSC/AP3
3	8X10 CL PRINT	2	-	HQ-PMD

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-C KICS-700

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/15/02
RESPONSE: PADD # DL9, DL10

RESPONSE TRACKING: Z3720 Z5226 Z6805 Z6911

[PRD] DATABASE RECORD: 6537 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/15/02
INITIAL DATE: 06/01/83
ITEM NUMBER: KY109K DATE LAST CHANGED: 06/06/07
SECTION: 3110 TIME LAST CHANGED: 08:23:12

REQUESTER: KSC NASA HQ
SUBREQUESTER: MS033 XA-E1

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 6537
ITEM NUMBER: KY109K

TEST CODE: STSALL

ASSOCIATED DOC: 20028S
TRACKING NO. DB98 KING2001 L3724 L504-1 R109-27
R2809 R7005
PRIORITY: REQUIRED
RATIONALE: THE USE OF TV, FILM, STILL AND DIGITAL PHOTOGRAPHY IS REQUIRED FOR EXTERNAL RELATIONS USE TO FULFILL NASA'S CHARTER TO PROVIDE INFORMATION TO THE PUBLIC IN THE WIDEST FORM POSSIBLE AS DIRECTED BY THE CONGRESSIONAL SPACE ACT OF 1958.

1. DESCRIPTION: WELCOMING ACTIVITIES KSC-EOM
LOCATION: SLF
CAMERA FORMAT: 6X6CM/35MM/DIGITAL
F/L: A/R
FPS:
FILM TYPE LOAD: COLOR
INTERVAL:
F/T: F
EXP.:
TIMING:
PRIME REQUESTER: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468
TECH CONTACT: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468

REMARKS: STILL COVERAGE OF WELCOMING ACTIVITIES AT KSC. EOM ONLY. CONTINGENT UPON CEREMONY.

DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	ORG	1	3 HRS	KSC/XA-E1 REP
2	8 X 10 CL PR	2	-	HQ-PMD

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-C KICS-700

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/15/02

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 6537
ITEM NUMBER: KY109K

RESPONSE TRACKING: Z3725 Z7005

[PRD] DATABASE RECORD: 6539
DOCUMENT ID: LLS
ITEM NUMBER: Y112EX
SECTION: 3110

REQUIREMENT STATUS: APPROVED
APPROVAL DATE: 04/29/95
INITIAL DATE: 07/14/89
DATE LAST CHANGED: 06/06/07
TIME LAST CHANGED: 08:23:30

REQUESTER: NASA HQ
SUBREQUESTER: MS033 VALO92009 VALOE
TEST CODE: EAFB S51C04 STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. A3901 KING2001 L101-9 L103-6 L2637
L2825 L3721 L3947 L5013 L504-1
L6714 R109-27 R26110 R26214 R7005

1. DESCRIPTION: TRACKING ORB APPROACH THRU TOUCHDOWN
LOCATION: EAFB, 3000 FT PAST THRESHOLD.
CAMERA FORMAT: 16 ARRI
F/L: 12-120
FPS: 24
FILM TYPE LOAD: ECN
INTERVAL:
F/T: T
EXP.:
TIMING:
PRIME REQUESTER:
TECH CONTACT: DFRC/MS 1022/JIM ROSS/661-276-2320

REMARKS: TRACKING COVERAGE FROM ORB APPROACH THRU TOUCHDOWN.

COORDINATION:

DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	IPA + WP	1	10 WD	HQ-PMD

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 6539
ITEM NUMBER: Y112EX

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/18/95
RESPONSE TRACKING: Z26174 Z2715 Z2724 Z2898 Z3720
Z3988 Z5029 Z6915 Z7001

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: XA1
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/24/95
RESPONSE TRACKING: Z26174 Z2651 Z2898 Z3720 Z3988
Z5029 Z6926

[PRD] DATABASE RECORD: 16203 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/29/95
INITIAL DATE: 08/15/88
ITEM NUMBER: HY112.1E DATE LAST CHANGED: 06/06/07
SECTION: 3110 TIME LAST CHANGED: 08:23:50

REQUESTER: MSFC NASA HQ
SUBREQUESTER: MS033 VALO92009 VALOE
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. A3901 KING2001 L101-9 L103-6 L2637
L3721 L3947 L5013 L504-1 R109-27
R7005
PRIORITY: REQUIRED
RATIONALE: PHOTOGRAPHIC SUPPORT

1. DESCRIPTION: TRACKING ORB APPROACH THRU TOUCHDOWN

LOCATION: WSSH, 3000 FT. PAST THRESHOLD.
CAMERA FORMAT: 16 ARRI
F/L: 12-120
FPS: 24

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 16203
ITEM NUMBER: HY112.1E

FILM TYPE LOAD: ECN
INTERVAL:
F/T: T
EXP:
TIMING:
PRIME REQUESTER:
TECH CONTACT: DFRC/MS 1022/JIM ROSS/661-276-2325
MSFC/CD70/DOM AMATORE/256 544-6533

REMARKS: TRACKING COVERAGE FROM ORB APPROACH THRU TOUCHDOWN.

DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	IPA + WP	1	10 WD	HQ/PMD
2	IPA	1	10 WD	MSFC/CD70/DOM AMATORE/ 256 544-6533

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: WSMR

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/25/95
RESPONSE TRACKING: Z26174 Z3720 Z3988 Z5029 Z6922
Z6929

[PRD] DATABASE RECORD: 6541 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/29/95
INITIAL DATE: 07/13/88
ITEM NUMBER: KTY114EX DATE LAST CHANGED: 03/20/07
SECTION: 3110 TIME LAST CHANGED: 14:00:10

REQUESTER: KSC JSC NASA HQ
SUBREQUESTER: JSC/AP3 MS179 VALO92009 VALOE
XA-E1
TEST CODE: EAFB S51C04 STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. A3901 DB98 KING2001 L101-9 L103-6
L2637 L2825 L2901 L3947 L504-1

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 6541
ITEM NUMBER: KTY114EX

L6806 L901-7 R109-27 R26110 R26215
R7005 SHAW94
PRIORITY: REQUIRED
RATIONALE: THE USE OF TV, FILM, STILL AND DIGITAL PHOTOGRAPHY IS REQUIRED FOR EXTERNAL RELATIONS USE TO FULFILL NASA'S CHARTER TO PROVIDE INFORMATION TO THE PUBLIC IN THE WIDEST FORM POSSIBLE AS DIRECTED BY THE CONGRESSIONAL SPACE ACT OF 1958.

1. DESCRIPTION: TRACKING ORB APPROACH THRU TOUCHDOWN
   LOCATION: EAFB, 4500 FT PAST THRESHOLD.
   CAMERA FORMAT: 35 MM/OR 120 STILL
   F/L: TBD
   FPS:
   FILM TYPE LOAD: VPS III
   INTERVAL:
   F/T: T
   EXP.:
   TIMING:
   PRIME REQUESTER: JSC/AP2/BILLIE DEASON/281 483-8646
   TECH CONTACT: DFRC/MS 1022/JIM ROSS/661-276-2325

   REMARKS: TRACKING COVERAGE OF ORB APPROACH THRU TOUCHDOWN, PRIMARILY TO COVER AN OVERSHOOT LANDING. SUPPORTED BY ONE PHOTOGRAPHER OPERATING DUAL MOUNTED CAMERAS. COORDINATED BY AMES DRYDEN PHOTO FOR PROCESSING AT JSC.

   COORDINATION: JSC/AP42/MICHAEL GENTRY/281 483-8602

   DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	UP FILM/120 STILL	1	ASAP	JSC/PS4 (TO LAKEBED COORD JIM ROSS, 661-276-2325) FOR PROCESSING AT JSC, RICHARD SLATER 281 483-7734
2	COLOR TRANS-	1	10 WD	TBC/FP (FOR XA-E1)

CONTINUED

[PRD] DATABASE RECORD: 6541
ITEM NUMBER: KTY114EX

	PARENCY FROM ORIG NEG, 4X5 FORMAT			
3	COLOR TRANS-PARENCY FROM ORIG NEG, 4X5 FORMAT	1	10 WD	HQ-PMD
4	DUPE NEG	1	ASAP	JSC/AP3 (3-4 VIEWS)

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/22/95
RESPONSE TRACKING: Z2898 Z2942 Z3988 Z6805 Z6922

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: XA1
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/26/95
RESPONSE TRACKING: Z26174 Z2651 Z2898 Z2972 Z3988
Z6805 Z6926

[PRD] DATABASE RECORD: 6542 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/15/02
INITIAL DATE: 01/13/89
ITEM NUMBER: TX115EX DATE LAST CHANGED: 03/20/07
SECTION: 3110 TIME LAST CHANGED: 14:01:17

REQUESTER: JSC DFRC
SUBREQUESTER: JSC/AP3
TEST CODE: EAFB S51C04 STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. A3901 KING2001 L101-9 L103-6 L2637
L2901 L3947 L504-1 L901-7 R109-27
R26216 R2943 R7005

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 6542
ITEM NUMBER: TX115EX

1. DESCRIPTION: TRACKING ORB APPROACH THRU LANDING - EAFB
   LOCATION: EAFB, 2800 FT PAST THRESHOLD.
   CAMERA FORMAT: 35 MM/120 STILL OR DIGITAL
   F/L: TBD
   FPS:
   FILM TYPE LOAD: VPS III
   INTERVAL:
   F/T: T
   EXP.:
   TIMING:
   PRIME REQUESTER: JSC/AP2/BILLIE DEASON/281 483-8646
   TECH CONTACT: DFRC/MS 1022/JIM ROSS/661-276-2325

   REMARKS: TRACKING COVERAGE OF ORB APPROACH THRU TOUCHDOWN.
   FOR IMMEDIATE RELEASE TO THE MEDIA.

   COORDINATION: JSC/AP42/MICHAEL GENTRY/281 483-8602

   DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	UP FILM	1	ASAP	LAKEBED COORD FOR PROCESS. AT DFRC. RETAIN AT DFRC.
2	DUPLICATE NEGATIVE	1	ASAP	JSC/GS45/RICHARD SLATER 281 483-7723 FOR AP3

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/15/02
RESPONSE TRACKING: Z2942 Z3988 Z6922

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: XA1

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 6542
ITEM NUMBER: TX115EX

RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/15/02
RESPONSE:

RESPONSE TRACKING: Z26174 Z2936 Z2972 Z3988 Z6926

[PRD] DATABASE RECORD: 16205 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/29/95
INITIAL DATE: 01/30/89
ITEM NUMBER: TX115.1E DATE LAST CHANGED: 03/20/07
SECTION: 3110 TIME LAST CHANGED: 14:02:09

REQUESTER: JSC DFRC
SUBREQUESTER: JSC/AP3
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. A3901 KING2001 L101-9 L103-6 L2637
L2913 L3947 L504-1 L901-9 R109-27
R7005

1. DESCRIPTION: TRACKING ORB APPROACH THRU LANDING

LOCATION: WSSH, 2800 FT. PAST THRESHOLD
CAMERA FORMAT: 120 STILL WSSH OR DIGITAL
F/L: TBD
FPS:
FILM TYPE LOAD: VPS III
INTERVAL:
F/T: T
EXP:
TIMING:
PRIME REQUESTER: JSC/AP2/BILLIE DEASON/281 483-8646
TECH CONTACT: DFRC/MS 1022/JIM ROSS/661-276-2325

REMARKS: TRACKING COVERAGE OF ORB APPROACH THRU
TOUCHDOWN. FOR IMMEDIATE RELEASE TO THE MEDIA.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 16205
ITEM NUMBER: TX115.1E

COORDINATION: JSC/AP42/MICHAEL GENTRY/281 483-8602

DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	FILM	1	ASAP	PROCESS AT WSSH, NEGATIVES TO JSC/GS45/RICHARD SLATER 281 483-7723
2	PRINTS	150 (8x10) COLOR PRINTS 100 (8x10) B&W PRINTS	ASAP	WSSH DISTRIBUTION TO THE NEWS MEDIA, TO BE COORDINATED THROUGH R. JACKSON/DFRC 805 258-3448
3	DUPE NEF	1	ASAP	JSC/AP3

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: WSMR
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/25/95
RESPONSE TRACKING: Z26174 Z2988 Z3988 Z6929

[PRD] DATABASE RECORD: 6545 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/15/02
INITIAL DATE: 01/03/89
ITEM NUMBER: TX118X DATE LAST CHANGED: 03/20/07
SECTION: 3110 TIME LAST CHANGED: 14:02:53

REQUESTER: JSC DFRC
SUBREQUESTER: JSC/AP3
TEST CODE: EAFB S51C04 STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. A3901 KING2001 L101-9 L103-6 L2637
L3947 L504-1 R109-27 R26126 R2943
R7005

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 6545
ITEM NUMBER: TX118X

PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: TRACKING ORB APPROACH THRU LANDING
LOCATION: EAFB, 2000 FT PAST THRESHOLD.
CAMERA FORMAT: 35 MM/120 STILL OR DIGITIAL
F/L: TBD
FPS:
FILM TYPE LOAD: 36 EXP VPS III
INTERVAL:
F/T: T
EXP.:
TIMING:
PRIME REQUESTER: JSC/AP2/BILLIE DEASON/281 483-8646
TECH CONTACT: DFRC/MS 1022/JIM ROSS/661 276-2325

REMARKS: TRACKING COVERAGE OF ORB APPROACH THRU TOUCHDOWN.
FOR IMMEDIATE RELEASE TO THE MEDIA.

COORDINATION: JSC/AP3/MICHAEL GENTRY/281 483-8602

DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	UP FILM	1	ASAP	DFRC LAKEBED CORD FOR PROCESS AT DFRC. DFRC RETAIN NEGATIVES
2	DUPLICATE NEGATIVE	1	ASAP	JSC/GS45/RICHARD SLATER 281 483-7723 FOR AP3

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: XA1
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/15/02
RESPONSE TRACKING: Z26174 Z2936 Z3988 Z6926

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 6545
ITEM NUMBER: TX118X

[PRD] DATABASE RECORD: 16206 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/29/95
INITIAL DATE: 01/30/89
ITEM NUMBER: TX118.1E DATE LAST CHANGED: 03/20/07
SECTION: 3110 TIME LAST CHANGED: 14:03:38

REQUESTER: JSC DFRC
SUBREQUESTER: JSC/AP3
TEST CODE: DFRC S0026.200 S0026.300 S0027.001
STSALL WSSH

ASSOCIATED DOC: 20026S 20027S
TRACKING NO. KING2001 L101-9 L103-6 L504-1 L901-9
R109-27 R7005
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: TRACKING ORB APPROACH THRU LANDING

LOCATION: WSSH, 2000 FT. PAST THRESHOLD
CAMERA FORMAT: 120 STILL AT WSSH
F/L: TBD
FPS:
FILM TYPE LOAD: VPS III
INTERVAL:
F/T: T
EXP:
TIMING:
PRIME REQUESTER: JSC/AP2/BILLIE DEASON/281 483-8646
TECH CONTACT: DFRC/MS 1022/JIM ROSS/661 276-2325

REMARKS: TRACKING COVERAGE OF ORBITER APPROACH THRU
TOUCHDOWN. FOR IMMEDIATE RELEASE TO THE MEDIA.

COORDINATION: JSC/AP42/MICHAEL GENTRY/281 483-8602

DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 16206
ITEM NUMBER: TX118.1E

| --- | --- | --- | --- | --- |
1	FILM/ 120 STILL	1	ASAP	PROCESS AT WSSH, NEGS TO JSC/GS45/RICHARD SLATER 281 483-7723
2	PRINTS	150 (8x10) COLOR PRINTS 100 (8x10) B&W PRINTS	ASAP	WSSH DIST TO THE NEWS MEDIA TO BE COORDINATED THRU R. JACKSON/DFRC 805 258-3448
3	DUPE NEG	1	ASAP	JSC/AP3

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: WSMR
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/25/95
RESPONSE TRACKING: Z26174 Z2988 Z3988 Z6929

[PRD] DATABASE RECORD: 6558 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/29/95
INITIAL DATE: 03/16/88
ITEM NUMBER: KY137X DATE LAST CHANGED: 03/20/07
SECTION: 3110 TIME LAST CHANGED: 14:04:30

REQUESTER: KSC NASA HQ
SUBREQUESTER: MS033 XA-E1
TEST CODE: EAFB S51C04 STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 L103-6 L2637 L2825
L3724 L3947 L504-1 R109-27 R26110
R7005
PRIORITY: REQUIRED
RATIONALE: THE USE OF TV, FILM, STILL AND DIGITAL PHOTOGRAPHY IS REQUIRED FOR EXTERNAL RELATIONS USE TO FULFILL NASA'S CHARTER TO PROVIDE INFORMATION TO THE PUBLIC IN THE

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 6558
ITEM NUMBER: KY137X

WIDEST FORM POSSIBLE AS DIRECTED BY THE CONGRESSIONAL SPACE ACT OF 1958.

1. DESCRIPTION: CREW EGRESS ON LANDING-EAFB

LOCATION: EAFB, ROLLOUT-EGRESS
CAMERA FORMAT: 35 MM
F/L: TBD
FPS:
FILM TYPE LOAD: VPS III
INTERVAL:
F/T:
EXP.:
TIMING:
PRIME REQUESTER: KSC/XA-E1/WILLIAM JOHNSON/321 867-2468
TECH CONTACT: DFRC/MS 1022/JIM ROSS/661-276-2325

REMARKS: COVERAGE OF CREW EGRESS ACTIVITIES.
T137 SUPPORTED BY ONE PHOTOGRAPHER
OPERATING DUAL MOUNTED CAMERAS.

DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	CONT PRF'S	1	10 WD	TBC/FP (FOR AB-F1)
2	" "	1	10 WD	HQ-PMD

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: XA1
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/24/95
RESPONSE TRACKING: Z26174 Z2651 Z2898 Z3725 Z3988
Z6926

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 6561 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/29/95
INITIAL DATE: 01/03/89
ITEM NUMBER: X140X DATE LAST CHANGED: 03/20/07
SECTION: 3110 TIME LAST CHANGED: 14:05:20

REQUESTER: DFRC
TEST CODE: EAFB S51C04 STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. KING2001 L103-6 L2637 L3947 L504-1
R109-27 R2943 R7005
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: CREW EGRESS ON LANDING-EAFB
LOCATION: EAFB, ROLLOUT-EGRESS
CAMERA FORMAT: 35 MM
F/L: TBD
FPS:
FILM TYPE LOAD: VPS III
INTERVAL:
F/T:
EXP.:
TIMING:
TECH CONTACT: DFRC/MS 1022/JIM ROSS/661 276-2325

REMARKS: COVERAGE OF CREW EGRESS ACTIVITIES:

DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	UP FILM	1	ASAP	DFRC- LAKEBED COORD FOR PROCESS AT DFRC. NEGATIVES RETAINED BY DFRC.

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: XA1
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/24/95

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 6561
ITEM NUMBER: X140X

RESPONSE:

RESPONSE TRACKING: Z26174 Z2936 Z3988 Z6926

[PRD] DATABASE RECORD: 16208 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/28/91
INITIAL DATE: 01/30/89
ITEM NUMBER: TX140.1E DATE LAST CHANGED: 03/20/07
SECTION: 3110 TIME LAST CHANGED: 14:05:56

REQUESTER: JSC DFRC
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. L103-6 L2637 L2913 L3948 L901-9
R109-27
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: CREW EGRESS ON LANDING WSSH

LOCATION: WSSH, ROLLOUT - EGRESS
CAMERA FORMAT: 120 STILL
F/P: TBD
FPS:
FILM TYPE LOAD: VPS III
INTERVAL:
F/T:
EXP:
TIMING:
PRIME REQUESTER: JSC/AP2/BILLIE DEASON/281 483-8646
TECH CONTACT: DFRC/MS 1022/JIM ROSS/661 276-2325

REMARKS: COVERAGE OF CREW EGRESS ACTIVITIES

COORDINATION:

DATA DISPOSITION:

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 16208
ITEM NUMBER: TX140.1E

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	FILM	1	ASAP	PROCESS AT WSMR NEGS. TO JSC/GS45/RICHARD SLATER 281 483-7723
2	PRINTS	150 (8x10) COLOR PRINTS 100 (8x10) B&W PRINTS	ASAP	WSSH DIST TO THE NEWS MEDIA TO BE COORDINATED THRU R. JACKSON/DFRC 805 258-3448.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: WSMR
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/11/91
RESPONSE TRACKING: Z26199 Z2988 Z3989

[PRD] DATABASE RECORD: 16220 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/29/95
INITIAL DATE: 03/28/91
ITEM NUMBER: Z141.1E DATE LAST CHANGED: 06/06/07
SECTION: 3110 TIME LAST CHANGED: 08:24:16

REQUESTER: WSTF
SUBREQUESTER: MS033 VALO92011 VALOE
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. KING2001 L103-6 L2638 L3724 L3948
L5013 L5025 L504-1 R109-27 R7005

1. DESCRIPTION: CREW EGRESS ON LANDING - WSSH

LOCATION: WSSH, ROLLOUT - EGRESS
CAMERA FORMAT: 16 ARRI
F/L: 12-120
FPS: 24

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 16220
ITEM NUMBER: Z141.1E

FILM TYPE LOAD: 400 FT. ECN
INTERVAL:
F/T:
EXP:
TIMING:
PRIME REQUESTER:
TECH CONTACT: WSSH-RC/BOB MITCHELL/ 505 524-5774

REMARKS: COVERAGE OF CREW EGRESS ACTIVITIES.

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	IPA + WP	1	10 WD	HQ-PMD

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: WSMR
RESPONDER: BART KLEINFELDT/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/22/95
RESPONSE TRACKING: Z26199 Z3725 Z3989 Z5029 Z5042
Z6922

[PRD] DATABASE RECORD: 3779 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/29/95
INITIAL DATE: 03/16/88
ITEM NUMBER: KY142X DATE LAST CHANGED: 03/20/07
SECTION: 3110 TIME LAST CHANGED: 14:06:42

REQUESTER: KSC NASA HQ
SUBREQUESTER: MS033 XA-E1
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 L103-6 L2638 L3724
L3948 L504-1 R109-27 R26110 R2943
R7005

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 3779
ITEM NUMBER: KY142X

PRIORITY: REQUIRED
RATIONALE: THE USE OF TV, FILM, STILL AND DIGITAL PHOTOGRAPHY IS REQUIRED FOR EXTERNAL RELATIONS USE TO FULFILL NASA'S CHARTER TO PROVIDE INFORMATION TO THE PUBLIC IN THE WIDEST FORM POSSIBLE AS DIRECTED BY THE CONGRESSIONAL SPACE ACT OF 1958.

1. DESCRIPTION: PHOTO'S EGRESS AT EAFB/TV-2
LOCATION: TV-2 EGRESS
CAMERA FORMAT: 70 HSBLD
F/L: 80
FPS:
FILM TYPE LOAD: 70 EXP VPS
INTERVAL:
F/T:
EXP.:
TIMING:
PRIME REQUESTER: KSC/XA-E1/WILLIAM JOHNSON/321 867-2468
TECH CONTACT: DFRC/MS 1022/JIM ROSS/661-276-2325

REMARKS: COVERAGE OF FLIGHT CREW EGRESS; ALSO TO INCLUDE ORB TOW FROM LAKEBED.

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	SEL 8X10 CL PR	2	WHAV	KSC/XA-E1
2	COLOR TRANS-PARENCY FROM ORIGINAL NEG. 4x5 FORMAT.	2	10 WD	HQ-PMD

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: XA1
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/24/95

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 3779
ITEM NUMBER: KY142X

RESPONSE TRACKING: Z26176 Z2936 Z3725 Z3989 Z6926

[PRD] DATABASE RECORD: 6564 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/29/95
INITIAL DATE: 01/03/89
ITEM NUMBER: KX143X DATE LAST CHANGED: 03/20/07
SECTION: 3110 TIME LAST CHANGED: 14:07:34

REQUESTER: KSC DFRC
SUBREQUESTER: MS033 XA-E1
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 L103-6 L2638 L3724
L3948 L504-1 L6601 R109-27 R26110
R26241 R2943
PRIORITY: REQUIRED
RATIONALE: THE USE OF TV, FILM, STILL AND DIGITAL PHOTOGRAPHY IS REQUIRED FOR EXTERNAL RELATIONS USE TO FULFILL NASA'S CHARTER TO PROVIDE INFORMATION TO THE PUBLIC IN THE WIDEST FORM POSSIBLE AS DIRECTED BY THE CONGRESSIONAL SPACE ACT OF 1958.

1. DESCRIPTION: FLT CREW EGRESS-TV-2 AT EAFB
LOCATION: TV-2 EGRESS/EAFB
CAMERA FORMAT: 35 NIKON
F/L: 50
FPS:
FILM TYPE LOAD: 1 ROLL VPS
INTERVAL:
F/T:
EXP.:
TIMING:
PRIME REQUESTER: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468
TECH CONTACT: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468

REMARKS: COVERAGE OF FLIGHT CREW EGRESS, PHOTOGRAPHY - JSC PROCESSING, DISTRIBUTION - EAFB.

DATA DISPOSITION:

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 6564
ITEM NUMBER: KX143X

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	UP FILM	1	ASAP	LAKEBED COORD FOR PROCESS AT EAFB.
2	SEL 8X10 CL PR	2	WHAV	KSC/XA-E1
3	COLOR TRANS-PARENCY FROM ORIGINAL NEG. 4x5 FORMAT.	2	10 WD	HQ-PMD

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: XA1
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/24/95
RESPONSE TRACKING: Z26176 Z2936 Z3725 Z3989 Z6926

[PRD] DATABASE RECORD: 6569 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/28/91
INITIAL DATE: 08/15/88
ITEM NUMBER: Y148X DATE LAST CHANGED: 03/20/07
SECTION: 3110 TIME LAST CHANGED: 14:08:17

REQUESTER: NASA HQ
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. KING2001 L103-6 L2638 L3948 R109-27

1. DESCRIPTION: COVERAGE OF MEDICAL OBSERVATIONS OF CREW - EAFB
   LOCATION: MEDICAL FACILITY/EAFB
   CAMERA FORMAT: 16 CANNON
   F/L: 12/75
   FPS: 24
   FILM TYPE LOAD: 100' ECO
   INTERVAL:
   F/T:
   EXP.:
   TIMING:

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 6569
ITEM NUMBER: Y148X

PRIME REQUESTER: KSC/XA-E1/WILLIAM JOHNSON/321 867-2468
TECH CONTACT: DFRC/MS D4838/MARTIN CURRY/805 258-3478

REMARKS: COVERAGE DURING MEDICAL OBSERVATION OF CREW
WHEN REQUIRED BY MEDICAL DOCTOR AND AUTHORIZED
BY JSC VITT.

DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	UP FILM	1	ASAP	CREW DOCTORS
2	RELEASED UP FILM	1	ASAP	LAKEBED COORD FOR PROCESS AT EAFB.

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: XA1
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/11/91
RESPONSE TRACKING: Z26176 Z3989

[PRD] DATABASE RECORD: 6570 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/28/91
INITIAL DATE: 02/02/90
ITEM NUMBER: T149X DATE LAST CHANGED: 03/20/07
SECTION: 3110 TIME LAST CHANGED: 14:09:07

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. KING2001 L001-11 L103-6 L3625 L3948
L812-1 R109-27 R2809

1. DESCRIPTION: CREW OBS AT EAFB
LOCATION: MEDICAL FACILITY /EAFB
CAMERA FORMAT: 35 STILL

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 6570
ITEM NUMBER: T149X

F/L: TBD
FPS:
FILM TYPE LOAD: VPS III
INTERVAL:
F/T:
EXP.:
TIMING:
PRIME REQUESTER: JSC/AP2/BILLIE DEASON/281 483-8646
TECH CONTACT: DFRC/MS 1022/JIM ROSS/661-276-2325

REMARKS: COVERAGE DURING MEDICAL OBSERVATIONS OF CREW, IF REQUIRED BY DOCTORS.

DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	UNPROCESSED FILM	1	UPON REQUEST ONLY	FLT CREW DOCTORS FOR PROCESS AT JSC. NEGS RETAINED BY DOCTORS.

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: XA1
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/11/91
RESPONSE TRACKING: Z3508 Z3989

[PRD] DATABASE RECORD: 6583 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/12/01
INITIAL DATE: 08/15/88
ITEM NUMBER: TX162X DATE LAST CHANGED: 03/20/07
SECTION: 3110 TIME LAST CHANGED: 14:10:02

REQUESTER: JSC DFRC
SUBREQUESTER: JSC/AP3
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 6583
ITEM NUMBER: TX162X

TRACKING NO. KING2001 L103-6 L2638 L3948 L504-1
L6514 R109-27 R26110 R26241 R7005
SHAW94

1. DESCRIPTION: POST-FLIGHT PRESS CONF - EAFB
LOCATION: PRESS CONF./EAFB
CAMERA FORMAT: 35MM
F/L:
FPS:
FILM TYPE LOAD: COLOR
INTERVAL:
F/T:
EXP.:
TIMING:
PRIME REQUESTER: DFRC/MS 1022/JIM ROSS/661 276-2325
TECH CONTACT: DFRC/MS 1022/JIM ROSS/661 276-2325
REMARKS: STILL COVERAGE OF POST-FLIGHT PRESS CONFERENCE.
PHOTOGRAPHY-DFRC, PROCESSING, DISTRIBUTION-EAFB
PROVIDE ON SPECIAL REQUEST.

DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	ORG+DUPE NEG	1	ASAP	DFRC FOR PROCESSING
2	8X10 PRTS	50	WHAV	DFRC/PA REP
3	COLOR TRANS-PARENCY FROM ORIGNAL NEG. 4x5 FORMAT.	2	10 WD	JSC/AP3

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: XA1
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/12/01
RESPONSE TRACKING: Z26176 Z2651 Z3989 Z6574 Z6926

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 16223 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/20/94
INITIAL DATE: 01/30/89
ITEM NUMBER: TZ162.1E DATE LAST CHANGED: 06/06/07
SECTION: 3110 TIME LAST CHANGED: 08:24:48

REQUESTER: JSC WSTF
SUBREQUESTER: VALO92009 VALOE
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. KING2001 L103-6 L2638 L2913 L3948
L5013 L6514 L901-9 R109-27 SHAW94

1. DESCRIPTION: POST-FLIGHT PRESS CONF - WSSH

LOCATION: PRESS CONF./WSSH
CAMERA FORMAT: 35 MM
F/L:
FPS:
FILM TYPE LOAD: COLOR
INTERVAL:
F/T:
EXP:
TIMING:
PRIME REQUESTER: JSC/AP2/BILLIE DEASON/281 483-8646
TECH CONTACT: WSSH/RC/BOB MITCHELL/505 524-5774

REMARKS: STILL COVERAGE OF PRESS POST-FLIGHT CONFERENCE.
PHOTOGRAPHY - WSMR PROCESSING, DISTRIBUTION
WSMR PROVIDE ON SPECIAL REQUEST.

DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	ORG & DUPE NEG	1	ASAP	WSMR FOR PROCESSING
2	8 x 10 PRTS	50	WHAV	WSTF/PA REP
3	COLOR TRANS-PARENCY FROM ORIGINAL NEG. 6x9 FORMAT	2	10 WD	JSC/AP3

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 16223
ITEM NUMBER: TZ162.1E

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: WSMR
RESPONDER: BART KLEINFELDT/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/24/94
RESPONSE TRACKING: Z26199 Z2988 Z3989 Z5029 Z6574

[PRD] DATABASE RECORD: 6587 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/29/95
INITIAL DATE: 03/16/88
ITEM NUMBER: X166EX DATE LAST CHANGED: 03/20/07
SECTION: 3110 TIME LAST CHANGED: 14:11:07

REQUESTER: DFRC
TEST CODE: EAFB S51C04 STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. KING2001 L103-6 L3948 L504-1 R109-27
R26110 R2809 R7005

1. DESCRIPTION: CREW POST-LANDING CEREMONIES - EAFB
   LOCATION: DFRC RAMP/EAFB
   CAMERA FORMAT: 16 ARRI
   F/L: 12-120
   FPS: 24
   FILM TYPE LOAD: 100 FT ECO
   INTERVAL:
   F/T:
   EXP.:
   TIMING:
   PRIME REQUESTER: DFRC/MS 1022/JIM ROSS/661-276-2325
   TECH CONTACT: DFRC/MS 1022/JIM ROSS/661-276-2325

   REMARKS: DFRC WILL DO THE PROCESSING. COVERAGE OF CREW
   DURING POST-LANDING CEREMONIES.

   DATA DISPOSITION:

   REF DATA TYPE QUAN TIME REQ RECIPIENT/REMARKS

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 6587
ITEM NUMBER: X166EX

| --- | --- | --- | --- | --- |
| 1 | DUPE PRT | 1 | IF REQ | DFRC |

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: GEORGE GRIMSHAW/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/29/95
RESPONSE TRACKING: Z2686 Z3989 Z6922

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: XA1
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/24/95

[PRD] DATABASE RECORD: 14586 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/29/95
INITIAL DATE: 03/16/88
ITEM NUMBER: Y171EX DATE LAST CHANGED: 03/20/07
SECTION: 3110 TIME LAST CHANGED: 14:12:01

REQUESTER: NASA HQ
SUBREQUESTER: JSC/AP3
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. A3901 KING2001 L101-9 L103-6 L3948
L504-1 R109-27 R26114 R7005

1. DESCRIPTION: PAO DOCUMENTATION REQUIREMENTS
LOCATION: EAFB/TRACKING MOUNT POSITION 3R
CAMERA FORMAT: 16MM
F/L:
FPS: 24
FILM TYPE LOAD: ECN - 16MM
INTERVAL:
F/T:
EXP:

CONTINUED

[PRD] DATABASE RECORD: 14586
ITEM NUMBER: Y171EX

TIMING:
PRIME REQUESTER: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468
TECH CONTACT: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468

REMARKS: FULL ORBITER VIEW AT (TBD) NUMBER OF FEET, PRIOR TO LANDING TO SUPPORT PAO DOCUMENTATION REQUIREMENTS INCLUDING POST-FLIGHT PRESS CONFERENCE.

NOTE: REFERENCE LLS SECT 3100 ITEM HT50EK DBR 010634

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/22/95
RESPONSE TRACKING: Z26163 Z2807 Z3989 Z6819 Z6922

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: XA1
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/24/95
RESPONSE:

RESPONSE TRACKING: Z2695 Z3989 Z6926

[PRD] DATABASE RECORD: 16214 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/29/95
INITIAL DATE: 01/30/89
ITEM NUMBER: Y172.1E DATE LAST CHANGED: 06/06/07
SECTION: 3110 TIME LAST CHANGED: 08:25:10

REQUESTER: NASA HQ
TEST CODE: DFRC S0026.200 S0026.300 S0027.001
STSALL WSSH

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 16214
ITEM NUMBER: Y172.1E

ASSOCIATED DOC: 20026S 20027S
TRACKING NO. A39011 KING2001 L101-9 L103-6 L104-13
L2638 L2913 L3948 L4009 L504-1
L901-9 R109-27 R7005

1. DESCRIPTION: PAO DOCUMENTATION REQUIREMENTS

LOCATION: WSSH
CAMERA FORMAT: 16 MM
F/L:
FPS: 24
FILM TYPE LOAD: 16 MM COLOR NEGATIVE
INTERVAL:
F/T:
EXP:
TIMING:

REMARKS: FULL ORBITER VIEW AT MAIN GEAR TOUCHDOWN
TO SUPPORT PAO DOCUMENTATION REQUIREMENT
INCLUDING POST-FLIGHT PRESS CONFERENCE.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: WSMR
RESPONDER: BART KLEINFELDT/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/25/95
RESPONSE TRACKING: Z26199 Z2988 Z3989 Z4012 Z66929
Z6922

[PRD] DATABASE RECORD: 14588 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/29/95
INITIAL DATE: 08/15/88
ITEM NUMBER: Y173X DATE LAST CHANGED: 03/20/07
SECTION: 3110 TIME LAST CHANGED: 14:12:55

REQUESTER: NASA HQ
SUBREQUESTER: JSC/AP3

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 14588
ITEM NUMBER: Y173X

TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. A3901 KING2001 L101-9 L103-6 L2638
L301-5 L3948 L504-1 L5505 R109-27
R26116 R7005

1. DESCRIPTION: PAO DOCUMENTATION REQUIREMENTS
LOCATION: EAFB/TRACKING MOUNT POSITION 3L
CAMERA FORMAT: 16MM
F/L:
FPS: 24
FILM TYPE LOAD: 16MM
INTERVAL:
EXP:
TIMING:
PRIME REQUESTER: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468
TECH CONTACT: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468
REMARKS: FULL ORBITER VIEW AT (TBD) NUMBER OF FEET,
PRIOR TO LANDING TO SUPPORT PAO
DOCUMENTATION REQ'MTS INCLUDING POST-FLIGHT
PRESS CONFERENCES.

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: XA1
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/24/95
RESPONSE TRACKING: Z26176 Z2695 Z3989 Z5504 Z6926

[PRD] DATABASE RECORD: 521121 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/15/02
INITIAL DATE: 10/14/92
ITEM NUMBER: HKTY175K DATE LAST CHANGED: 06/06/07
SECTION: 3110 TIME LAST CHANGED: 08:25:29

REQUESTER: MSFC KSC JSC
NASA HQ
SUBREQUESTER: JSC/AP3 XA-E1
TEST CODE: STSALL

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3110 - DOCUMENTARY PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 521121
ITEM NUMBER: HKTY175K

ASSOCIATED DOC: 20028S
TRACKING NO. DB98 KING2001 L504-1 L5226 R109-27
R7005

1. DESCRIPTION: PHOTO LANDING

LOCATION: SLF
CAMERA FORMAT: 35MM STILL OR DIGITAL
F/L: A/R
FPS:
FILM TYPE LOAD: COLOR
INTERVAL:
F/T: T
EXP: A/R
TIMING: N/R
PRIME REQUESTER: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468
TECH CONTACT: WILLIAM JOHNSON/KSC/XA-E1/321 867-2468
MSFC/CD70/DOM AMATORE/256 544-6533

REMARKS: ALERT SEQUENTIAL-STILL COVERAGE OF ORBITER LANDING AT KSC/SLF. VIEW TO BE FROM OUTSIDE OF FENCE ADJACENT TO TOUCHDOWN POINT. EOM ONLY. PLAN FOR POSSIBLE NORTH OR SOUTH LANDINGS.

DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
1	ORG	1	3 HRS	KSC/XA-E1 REP
2	ORIG OR DUPE NEG	1	3 HRS	JSC/AP3
3	ORIG OR DUPE NEG	2	-	MSFC/CD70/DOM AMATORE/ 256 544-6533
4	8X10 CL PRINT	2	-	HQ-PMD

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-C KICS-700

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/15/02

CONTINUED

[PRD] DATABASE RECORD: 521121
ITEM NUMBER: HKTY175K

RESPONSE: PADD # DL19,20,21,22,23,24

RESPONSE TRACKING: Z5226 Z6911

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD:	575936	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	LLS	APPROVAL DATE:	02/23/07
		INITIAL DATE:	04/09/04
ITEM NUMBER:	HKT1K	DATE LAST CHANGED:	03/06/07
SECTION:	3120	TIME LAST CHANGED:	12:11:56

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: E001 GC MLP

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. A0701-1 PAGE04 PAGE07 R0403-1 R0504-9
R0608-5
PRIORITY: MANDATORY
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE

1. DESCRIPTION: E001 VIEW OF AFT SKIRT AREA, GSE PERFORMANCE, POSSIBLE DEBRIS AND ANOMALIES

LOCATION: NE CORNER OF THE MLP (MLP, L1)
FIELD OF VIEW: BOTTOM 1/4 OF SSV AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: 16MM
F/L: AS REQUIRED TO MEET FOV REQUIREMENT (NOMINALLY 10MM)
FPS: 400
FILM TYPE LOAD: 200 FT
INTERVAL: HBOI INITIATION THROUGH END OF FILM RUN
F/T: F
EXP: AEC
TIMING: YES, TIME STAMP WITH IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS:

1) HIGH-SPEED CAMERA COVERAGE IS REQUIRED FOR BOTTOM 1/4 OF LAUNCH VEHICLE AND THE MLP DECK FROM MLP L1 TO MONITOR SRB AFT SKIRT AREA DURING IGNITION/EARLY LIFT-OFF FOR ANOMALIES, THERMAL INSULATION FAILURES, WATER DELUGE SYSTEM ACTIVATION

CONTINUED

[PRD] DATABASE RECORD: 575936
ITEM NUMBER: HKT1K

AND DEBRIS ID. COVERAGE SHALL BE SUCH THAT PARTICLES CAN BE TRACKED WHILE ON MLP DECK OR NEAR VEHICLE DURING EARLY LIFT-OFF.

2) A COMBINATION OF CAMERAS E001, E002, E003, AND E004 MUST PROVIDE COVERAGE OF BOTTOM 1/4 OF SSV.

3) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

4) PROVIDE A LOCATION SURVEY OF MLP CAMERAS IN MLP X, Y, Z COORDINATES, CAMERA HEIGHT AND ELEVATION ANGLE (DEGREES) FROM MLP 0.0" LEVEL AT MLP ZERO DECK (POINT X). ORIGIN OF SURVEY IS FROM MLP ZERO DECK POINT X. POINT X IS DEFINED AS CENTER OF MLP IN Y DIRECTION, CENTER OF FSS IN Z DIRECTION AND MLP 0.0" LEVEL IN X DIRECTION. POINT X IS ALSO KNOWN AS THE CENTER LINE OF THE ET (MLP X=0, Y=0, Z=0). MLP CAMERA COORDINATES ARE MEASURED FROM MLP POINT X USING AN ELECTRONIC THEODOLITE INSTRUMENT (SURVEY GRADE). PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

5) MAKE A MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS
REF: DBR 10043 THE EMERGENCY CAMERA CONTROL SYSTEM (ECCS)
REF: DBR 541334 PHOTO OPTICAL CONTROL SYSTEMS (POCS)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 575936
ITEM NUMBER: HKT1K

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	2 CD	MSFC/EV12/TOM RIECKHOFF/256 544-7677
2	EP	1	2 CD	JSC/KX/JON DISLER/281 483-5182
3	EP	1	2 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
4	EP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/23/07
RESPONSE: PADD #E001

[PRD] DATABASE RECORD: 575938 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/23/07
INITIAL DATE: 04/09/04
ITEM NUMBER: HKT2K DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 12:12:10

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: E002 GC MLP

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. A0701-1 PAGE04 PAGE07 R0403-1 R0504-9
R0608-5
PRIORITY: MANDATORY
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE

1. DESCRIPTION: E002 - VIEW OF AFT SKIRT AREA, GSE PERFORMANCE,

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 575938
ITEM NUMBER: HKT2K

POSSIBLE DEBRIS AND ANOMALIES

LOCATION:	SE CORNER OF THE MLP (MLP, L4)
FIELD OF VIEW:	BOTTOM 1/4 OF SSV AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT:	16MM
F/L:	AS REQUIRED TO MEET FOV REQUIREMENT (NOMINALLY 10MM)
FPS:	400
FILM TYPE LOAD:	200 FT
INTERVAL:	HBOI INITIATION THRU END OF FILM RUN
F/T:	F
EXP.:	AEC
TIMING:	YES, TIME STAMP WITH IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD) 321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS:

1) HIGH-SPEED CAMERA COVERAGE IS REQUIRED FOR BOTTOM 1/4 OF LAUNCH VEHICLE AND THE MLP DECK FROM MLP L4 TO MONITOR SRB AFT SKIRT AREA DURING IGNITION/EARLY LIFT-OFF FOR ANOMALIES, THERMAL INSULATION FAILURES, WATER DELUGE SYSTEM ACTIVATION, MAIN ENGINE START, LH2 TAIL SERVICE MAST DOOR CLOSURE AND DEBRIS ID. COVERAGE SHALL BE SUCH THAT PARTICLES CAN BE TRACKED WHILE ON MLP DECK OR NEAR VEHICLE DURING EARLY LIFT-OFF.

2) A COMBINATION OF CAMERAS E001, E002, E003, AND E004 MUST PROVIDE COVERAGE OF BOTTOM 1/4 OF SSV.

3) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

CONTINUED

[PRD] DATABASE RECORD: 575938
ITEM NUMBER: HKT2K

4) PROVIDE A LOCATION SURVEY OF MLP CAMERAS IN MLP X, Y, Z COORDINATES, CAMERA HEIGHT AND ELEVATION ANGLE (DEGREES) FROM MLP 0.0" LEVEL AT MLP ZERO DECK (POINT X). ORIGIN OF SURVEY IS FROM MLP ZERO DECK POINT X. POINT X IS DEFINED AS CENTER OF MLP IN Y DIRECTION, CENTER OF FSS IN Z DIRECTION AND MLP 0.0" LEVEL IN X DIRECTION. POINT X IS ALSO KNOWN AS THE CENTER LINE OF THE ET (MLP X=0, Y=0, Z=0). MLP CAMERA COORDINATES ARE MEASURED FROM MLP POINT X USING AN ELECTRONIC THEODOLITE INSTRUMENT (SURVEY GRADE). PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

5) MAKE A MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS
REF: DBR 10043 THE EMERGENCY CAMERA CONTROL SYSTEM (ECCS)
REF: DBR 541334 PHOTO OPTICAL CONTROL SYSTEMS (POCS)

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	2 CD	MSFC/EV12/TOM RIECKOFF/256 544-7677
2	EP	1	2 CD	JSC/KX/JON DISLER/281 483-5182
3	EP	1	2 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575
4	EP	1	2 CD	KSC/NE-M7/TOM FORD/321 867-3635
5	IP	1	2 CD	KSC/NE-M7/TOM FORD/321 867-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 575938
ITEM NUMBER: HKT2K

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/23/07
RESPONSE: PADD #E002

[PRD] DATABASE RECORD: 575939 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/23/07
INITIAL DATE: 04/09/04
ITEM NUMBER: HKT3K DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 12:12:25

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: E003 GC MLP

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. A0701-1 PAGE04 PAGE07 R0403-1 R0504-9
R0608-5
PRIORITY: MANDATORY
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE

1. DESCRIPTION: E003 - VIEW OF AFT SKIRT AREA, GSE PERFORMANCE,
POSIBLE DEBRIS AND ANOMALIES

LOCATION: SW CORNER OF THE MLP (MLP L5)
FIELD OF VIEW: BOTTOM 1/4 OF SSV AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: 16MM
F/L: AS REQUIRED TO MEET FOV REQUIREMENTS (NOMINALLY 10MM)
FPS: 400
FILM TYPE LOAD: 200 FT
INTERVAL: HBOI INITIATION THROUGH END OF FILM RUN
F/T: F

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 575939
ITEM NUMBER: HKT3K

EXP.: AEC
TIMING: YES, TIME STAMP WITH IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS:

1) HIGH-SPEED CAMERA COVERAGE IS REQUIRED FOR BOTTOM 1/4 OF LAUNCH VEHICLE AND THE MLP DECK FROM MLP L-5 TO MONITOR SRB AFT SKIRT AREA DURING IGNITION/EARLY LIFT-OFF FOR ANOMALIES, THERMAL INSULATION FAILURES, WATER DELUGE SYSTEM ACTIVATION, MAIN ENGINE START, LO2 TAIL SERVICE MAST DOOR CLOSURE AND DEBRIS ID. COVERAGE SHALL BE SUCH THAT PARTICLES CAN BE TRACKED WHILE ON MLP DECK OR NEAR VEHCILE DURING EARLY LIFT-OFF.

2) A COMBINATION OF CAMERAS E001, E002, E003, AND E004 MUST PROVIDE COVERAGE OF BOTTOM 1/4 OF SSV.

3) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

4) PROVIDE A LOCATION SURVEY OF MLP CAMERAS IN MLP X, Y, Z COORDINATES, CAMERA HEIGHT AND ELEVATION ANGLE (DEGREES) FROM MLP 0.0" LEVEL AT MLP ZERO DECK (POINT X). ORIGIN OF SURVEY IS FROM MLP ZERO DECK POINT X. POINT X IS DEFINED AS CENTER OF MLP IN Y DIRECTION, CENTER OF FSS IN Z DIRECTION AND MLP 0.0" LEVEL IN X DIRECTION. POINT X IS ALSO KNOWN AS THE CENTER LINE OF THE ET (MLP X=0, Y=0, Z=0). MLP CAMERA COORDINATES ARE MEASURED FROM MLP POINT X USING ELECTRONIC THEODOLITE INSTRUMENT (SURVEY GRADE). PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

CONTINUED

[PRD] DATABASE RECORD: 575939
ITEM NUMBER: HKT3K

5) MAKE A MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS
REF: DBR 10043 THE EMERGENCY CAMERA CONTROL SYSTEM (ECCS)
REF: DBR 541334 PHOTO OPTICAL CONTROL SYSTEMS (POCS)

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	2 CD	MSFC/EV12/TOM RIECKHOFF/256 544-7677
2	EP	1	2 CD	JSC/KX/JON DISLER/281 483-5182
3	EP	1	2 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
4	EP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 861-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/23/07
RESPONSE: PADD #E003

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 575939
ITEM NUMBER: HKT3K

[PRD] DATABASE RECORD: 575940 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/23/07
INITIAL DATE: 04/09/04
ITEM NUMBER: HKT4K DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 12:12:38

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: E004 GC MLP

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. A0701-1 PAGE04 PAGE07 R0403-1 R0504-9
R0608-5
PRIORITY: MANDATORY
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE

1. DESCRIPTION: E004 - VIEW OF AFT SKIRT AREA, GSE PERFORMANCE, POSSIBLE DEBRIS AND ANOMALIES

LOCATION: NW CORNER OF THE MLP (MLP L6)
FIELD OF VIEW: BOTTOM 1/4 OF SSV AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: 16MM
F/L: AS REQUIRED TO MEET FOV REQUIREMENTS (NOMINALLY 10MM)
FPS: 400
FILM TYPE LOAD: 200 FT
INTERVAL: HBOI INITIATION THROUGH END OF FILM RUN
F/T: F
EXP.: AEC
TIMING: YES, TIME STAMP WITH IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS:

CONTINUED

[PRD] DATABASE RECORD: 575940
ITEM NUMBER: HKT4K

1) HIGH-SPEED CAMERA COVERAGE IS REQUIRED FOR BOTTOM 1/4 OF LAUNCH VEHICLE AND THE MLP DECK FROM MLP L-6 TO MONITOR SRB AFT SKIRT AREA DURING IGNITION/EARLY LIFT-OFF FOR ANOMALIES, THERMAL INSULATION FAILURES, WATER DELUGE SYSTEM ACTIVATION AND DEBRIS ID. COVERAGE SHALL BE SUCH THAT PARTICLES CAN BE TRACKED WHILE ON MLP DECK OR NEAR VEHICLE DURING EARLY LIFT-OFF.

2) A COMBINATION OF CAMERAS E001, E002, E003, AND E004 MUST PROVIDE COVERAGE OF BOTTOM 1/4 OF SSV.

3) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

4) PROVIDE A LOCATION SURVEY OF MLP CAMERAS IN MLP X, Y, Z COORDINATES, CAMERA HEIGHT AND ELEVATION ANGLE (DEGREES) FROM MLP 0.0" LEVEL AT MLP ZERO DECK (POINT X). ORIGIN OF SURVEY IS FROM MLP ZERO DECK POINT X. POINT X IS DEFINED AS CENTER OF MLP IN Y DIRECTION, CENTER OF FSS IN Z DIRECTION AND MLP 0.0" LEVEL IN X DIRECTION. POINT X IS ALSO KNOWN AS THE CENTER LINE OF THE ET (MLP X=0, Y=0, Z=0). MLP CAMERA COORDINATES ARE MEASURED FROM MLP POINT X USING AN ELECTRONIC THEODOLITE INSTRUMENT (SURVEY GRADE). PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

5) MAKE A MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC, & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS

CONTINUED

[PRD] DATABASE RECORD: 575940
ITEM NUMBER: HKT4K

REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS
REF: DBR 10043 THE EMERGENCY CAMERA CONTROL SYSTEM (ECCS)
REF: DBR 541334 PHOTO OPTICAL CONTROL SYSTEMS (POCS)

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	2 CD	MSFC/EV12/TOM RIECKHOFF/256 544-7677
2	EP	1	2 CD	JSC/KX/JON DISLER/281 483-5182
3	EP	1	2 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
4	EP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/23/07
RESPONSE: PADD # E004

[PRD] DATABASE RECORD: 575941 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/26/07
INITIAL DATE: 04/09/04
ITEM NUMBER: HKT5K DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 12:12:51

REQUESTER:	MSFC	KSC	JSC	
SUBREQUESTER:	JSC/HS4-40	JSC/KX	JSC/MS2	KSC/MK-SIO
	KSC/NE-M7	MFSC/EV12	MSFC/MP71	
TEST CODE:	E005	GC MLP		

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 575941
ITEM NUMBER: HKT5K

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. A0701-1 PAGE04 PAGE07 R0403-1 R0504-9
R0608-5
PRIORITY: MANDATORY
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE

1. DESCRIPTION: E005 - ORB TPS SURFACES AND LO2 UMBILICAL

LOCATION: MLP ZERO LEVEL (L2)
FIELD OF VIEW: UNDERSIDE OF ORBITER AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: 16MM
F/L: AS REQUIRED TO MEET FOV REQUIREMENTS (NOMINALLY 10MM)
FPS: 400
FILM TYPE LOAD: 200 FT
INTERVAL: HBOI INITIATION THROUGH END OF FILM RUN
F/T: F
EXP.: AEC
TIMING: YES, TIME STAMP WITH IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS:

1) HIGH-SPEED CAMERA COVERAGE IS REQUIRED OF THE ORB/ET LO2 UMBILICAL AND ORBITER SURFACES ON BOTTOM OF ORBITER BODY FLAP TO SHOW HRSI ON BODY FLAP AND SURROUNDING AREA. SHOW ENTIRE BODY FLAP, BUT INCLUDE AS MUCH INSULATION SURFACES AS POSSIBLE. VIEW TO DETERMINE TPS INTEGRITY DURING THE LAUNCH AND FOR POSSIBLE TPS LOSS.

2) A COMBINATION OF CAMERAS E005, E034, E036, AND E040 MUST PROVIDE COVERAGE OF:
1. ORBITER BASE HEAT SHIELD
2. UNDERSIDE OF BODY FLAP AND WING/ELEVON AREA

CONTINUED

[PRD] DATABASE RECORD: 575941
ITEM NUMBER: HKT5K

3. FORWARD 50% OF ORBITER BELLY

3) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

4) PROVIDE A LOCATION SURVEY OF MLP CAMERAS IN MLP X, Y, Z COORDINATES, CAMERA HEIGHT AND ELEVATION ANGLE (DEGREES) FROM MLP 0.0" LEVEL AT MLP ZERO DECK (POINT X). ORIGIN OF SURVEY IS FROM MLP ZERO DECK POINT X. POINT X IS DEFINED AS CENTER OF MLP IN Y DIRECTION, CENTER OF FSS IN Z DIRECTION AND MLP 0.0" LEVEL IN X DIRECTION. POINT X IS ALSO KNOWN AS THE CENTER LINE OF THE ET (MLP X=0, Y=0, Z=0). MLP CAMERA COORDINATES ARE MEASURED FROM MLP POINT X USING AN ELECTRONIC THEODOLITE INSTRUMENT (SURVEY GRADE). PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

5) MAKE A MAXIMUM OF 3 EP & 2 IP (FOR FURTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC, & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS
REF: DBR 541334 PHOTO OPTICAL CONTROL SYSTEMS (POCS)

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	2 CD	MSFC/EV12/TOM RIECKHOFF/256 544-7677

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 575941
ITEM NUMBER: HKT5K

2	EP	1	2 CD	JSC/KX/JON DISLER/281 483-5182
3	EP	1	2 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
4	EP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/26/07
RESPONSE: PADD #E005

[PRD] DATABASE RECORD: 575942 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/26/07
INITIAL DATE: 04/09/04
ITEM NUMBER: HKT6K DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 12:13:02

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: E006 GC MLP

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. A0701-1 PAGE04 PAGE07 R0403-1 R0504-9
R0608-5
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LAUNCH SUPPORT, SAFETY REQUIREMENTS.

1. DESCRIPTION: E006 - ET ORBITER LO2 UMBILICAL; LO2 LOWER FEEDLINE

LOCATION: MLP ZERO LEVEL (MLP L3)
FIELD OF VIEW: ORB/ET LO2 FLUID AND ELECTRICAL UMBILICAL (EO-5) AND SURROUNDING AREA AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: 16MM
F/L: AS REQUIRED TO SATISFY FOV REQUIREMENTS

CONTINUED

[PRD] DATABASE RECORD: 575942
ITEM NUMBER: HKT6K

(NOMINALLY 25MM)
FPS: 400
FILM TYPE LOAD: 200 FT
INTERVAL: HBOI INITIATION THROUGH END OF FILM RUN
F/T: F
EXP.: AEC
TIMING: YES, TIME STAMP WITH IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS:

1) HIGH-SPEED CAMERA COVERAGE IS REQUIRED TO OBSERVE THE ORB/ET LO2 FLUID AND ELCTRICAL UMBILICAL (EO-5) DURING SSME IGNITION AND LIFT-OFF TO DETERMINE ANOMALIES SUCH AS ICE FORMATION, CRYO LEAKAGE, TPS FAILURE AND STRUCTURAL FAILURE.

2) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

3) PROVIDE A LOCATION SURVEY OF MLP CAMERAS IN MLP X, Y, Z COORDINATES, CAMERA HEIGHT AND ELEVATION ANGLE (DEGREES) FROM MLP 0.0" LEVEL AT MLP ZERO DECK (POINT X). ORIGIN OF SURVEY IS FROM MLP ZERO DECK POINT X. POINT X IS DEFINED AS CENTER OF MLP IN Y DIRECTION, CENTER OF FSS IN Z DIRECTION AND MLP 0.0" LEVEL IN X DIRECTION. POINT X IS ALSO KNOWN AS THE CENTER LINE OF THE ET (MLP X=0, Y=0, Z=0). MLP CAMERA COORDINATES ARE MEASURED FROM MLP POINT X USING AN ELECTRONIC THEODOLITE INSTRUMENT (SURVEY GRADE). PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

CONTINUED

[PRD] DATABASE RECORD: 575942
ITEM NUMBER: HKT6K

4) MAKE A MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS
REF: DBR 541334 PHOTO OPTICAL CONTROL SYSTEMS (POCS)

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	2 CD	MSFC/EV12/TOM RIECKHOFF/256 544-7677
2	EP	1	2 CD	JSC/KX/JON DISLER/281 483-5182
3	EP	1	2 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
4	EP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/26/07
RESPONSE: PADD #E006

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 575943 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/26/07
INITIAL DATE: 04/09/04
ITEM NUMBER: HKT7K DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 12:13:13

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: E007 GC MLP

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. A0701-1 PAGE04 PAGE07 R0403-1 R0504-9
R0608-5
PRIORITY: MANDATORY
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE

1. DESCRIPTION: E007 - SRB HOLDDOWN POST M-4

LOCATION: MLP ZERO LEVEL (MLP B2)
FIELD OF VIEW: SRB HOLD DOWN POST M-4 AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: 16MM
F/L: AS REQUIRED TO MEET FOV REQUIREMENTS (NOMINALLY 10MM)
FPS: 400
FILM TYPE LOAD: 200 FT
INTERVAL: HBOI INITIATION THROUGH END OF FILM RUN
F/T: F
EXP.: AEC
TIMING: YES, TIME STAMP WITH IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD) 321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS:

1) HIGH-SPEED CAMERA IS REQUIRED ON THE MLP DECK TO VIEW SRB HOLDDOWN POST M-4 DURING IGNITION AND LIFTOFF TO SHOW RELEASE AND SRM NOZZLE CLEARANCE. PROVIDE A VIEW THAT IS PERPENDICULAR TO MOTION OF THE BLAST COVERS. THE CAMERA

CONTINUED

[PRD] DATABASE RECORD: 575943
ITEM NUMBER: HKT7K

SHALL BE PLACED SO THAT THE SRB HOLDDOWN POST IS IN THE CENTER OF THE FRAME.

2) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

3) PROVIDE A LOCATION SURVEY OF MLP CAMERAS IN MLP X, Y, Z COORDINATES, CAMERA HEIGHT AND ELEVATION ANGLE (DEGRESS) FROM MLP 0.0" LEVEL AT MLP ZERO DECK (POINT X). ORIGIN OF SURVEY IS FROM MLP ZERO DECK POINT X. POINT X IS DEFINED AS CENTER OF MLP IN 7 DIRECTION, CENTER OF FSS IN Z DIRECTION AND MLP 0.0" LEVEL IN X DIRECTION. POINT X IS ALSO KNOWN AS THE CENTER LINE OF THE ET (MLP X=0, Y=0, Z=0). MLP CAMERA COORDINATES ARE MEASURED FROM MLP POINT X USING AN ELECTRONIC THEODOLITE INSTRUMENT (SURVEY GRADE). PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

4) MAKE A MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS
REF: DBR 541334 PHOTO OPTICAL CONTROL SYSTEMS (POCS)

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 575943
ITEM NUMBER: HKT7K

1	EP	1	2 CD	MSFC/EV12/TOM RIECKHOFF/256 544-7677
2	EP	1	2 CD	JSC/KX/JON DISLER/281 483-5182
3	EP	1	2 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
4	EP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/26/07
RESPONSE: PADD #E007

[PRD] DATABASE RECORD: 575944 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/26/07
INITIAL DATE: 04/09/04
ITEM NUMBER: HKT8K DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 12:13:23

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/NE-M7
MSFC/EV12 MSFC/MP71
TEST CODE: E008 GC MLP

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. A0701-1 PAGE04 PAGE07 R0403-1 R0504-9
R0608-5
PRIORITY: MANDATORY
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE

1. DESCRIPTION: E008 - SRB HOLDDOWN POST M-2

LOCATION: MLP ZERO LEVEL (MLP B3)
FIELD OF VIEW: SRB HOLD DOWN POST M-2 AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: 16MM

CONTINUED

[PRD] DATABASE RECORD: 575944
ITEM NUMBER: HKT8K

F/L:	AS REQUIRED TO MEET FOV REQUIREMENT (NOMINALLY 10MM)
FPS:	400
FILM TYPE LOAD:	200 FT
INTERVAL:	HBOI INITIATION THROUGH END OF FILM RUN
F/T:	F
EXP.:	AEC
TIMING:	YES, TIME STAMP WITH IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS:

1) HIGH-SPEED CAMERA IS REQUIRED ON THE MLP DECK TO VIEW SRB HOLDDOWN POST M-2 DURING IGNITION AND LIFTOFF TO SHOW RELEASE AND SRM NOZZLE CLEARANCE. THE CAMERA SHALL BE PLACED SO THAT THE SRB HOLDDOWN POST IS IN THE CENTER OF THE FRAME.

2) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

3) PROVIDE A LOCATION SURVEY OF MLP CAMERAS IN MLP X, Y, Z COORDINATES, CAMERA HEIGHT AND ELEVATION ANGLE (DEGREES) FROM MLP 0.0" LEVEL AT MLP ZERO DECK (POINT X). ORIGIN OF SURVEY IS FROM MLP ZERO DECK POINT X. POINT X IS DEFINED AS CENTER OF MLP IN Y DIRECTION, CENTER OF FSS IN Z DIRECTION AND MLP 0.0" LEVEL IN X DIRECTION. POINT X IS ALSO KNOWN AS THE CENTER LINE OF THE ET (MLP X=0, Y=0, Z=0). MLP CAMERA COORDINATES ARE MEASURED FROM MLP POINT X USING ELECTRONIC THEODOLITE INSTRUMENT (SURVEY GRADE). PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

CONTINUED

[PRD] DATABASE RECORD: 575944
ITEM NUMBER: HKT8K

4) MAKE A MAXIMUM OF 3 EP AND 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS
REF: DBR 541334 PHOTO OPTICAL CONTROL SYSTEMS (POCS)

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	2 CD	MSFC/EV12/TOM RIECKHOFF/256 544-7677
2	EP	1	2 CD	JSC/KX/JON DISLER/281 483-5182
3	EP	1	2 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
4	EP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/26/07
RESPONSE: PADD #E008

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD:	575945	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	LLS	APPROVAL DATE:	02/26/07
		INITIAL DATE:	04/09/04
ITEM NUMBER:	HKT9K	DATE LAST CHANGED:	03/06/07
SECTION:	3120	TIME LAST CHANGED:	10:31:49

REQUESTER:	MSFC	KSC	JSC		
SUBREQUESTER:	JSC/HS4-40	JSC/KX	JSC/MS2	KSC/MK-SIO	
	KSC/NE-M7	MSFC/EV12	MSFC/MP71		
TEST CODE:	E009	GC MLP			
ASSOCIATED DOC:	20007S	20014S			
TRACKING NO.	A0701-1	PAGE04	PAGE07	R0403-1	R0504-9
	R0608-5				
PRIORITY:	MANDATORY				
RATIONALE:	ENGINEERING PHOTOGRAPHIC COVERAGE				

1. DESCRIPTION: E009 - SRB HOLDDOWN POST M-1

LOCATION:	MLP ZERO LEVEL (MLP B4)
FIELD OF VIEW:	SRB HOLD DOWN POST M-1 AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT:	16MM
F/L:	AS REQUIRED TO MEET FOV REQUIREMENT (NOMINALLY 10MM)
FPS:	400
FILM TYPE LOAD:	200 FT
INTERVAL:	HBOI INITIATION THROUGH END OF FILM RUN
F/T:	F
EXP.:	AEC
TIMING:	YES, TIME STAMP WITH IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS:

1) HIGH-SPEED CAMERA IS REQUIRED ON THE MLP DECK TO VIEW SRB HOLDDOWN POST M-1 DURING IGNITION AND LIFTOFF TO SHOW RELEASE AND SRM NOZZLE CLEARANCE. THE CAMERA SHALL BE PLACED SO THAT THE SRB HOLDDOWN POST IS IN THE

CONTINUED

[PRD] DATABASE RECORD: 575945
ITEM NUMBER: HKT9K

CENTER OF THE FRAME.

2) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

3) PROVIDE A LOCATION SURVEY OF MLP CAMERAS IN MLP X, Y, Z COORDINATES, CAMERA HEIGHT AND ELEVATION ANGLE (DEGREES) FROM MLP 0.0" LEVEL AT MLP ZERO DECK (POINT X). ORIGIN OF SURVEY IS FROM MLP ZERO DECK POINT X. POINT X IS DEFINED AS CENTER OF MLP IN Y DIRECTION, CENTER OF FSS IN Z DIRECTION AND MLP 0.0" LEVEL IN X DIRECTION. POINT X IS ALSO KNOWN AS THE CENTER LINE OF THE ET (MLP X=0, Y=0, Z=0). MLP CAMERA COORDINATES ARE MEASURED FROM MLP POINT X USING AN ELECTRONIC THEODOLITE INSTRUMENT (SURVEY GRADE). PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

4) MAKE A MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS
REF: DBR 541334 PHOTO OPTICAL CONTROL SYSTEMS (POCS)

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	2 CD	MSFC/EV12/TOM RIECKHOFF/256 544-7677

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 575945
ITEM NUMBER: HKT9K

2	EP	1	2 CD	JSC/KX/JON DISLER/281 483-5182
3	EP	1	2 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
4	EP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/26/07
RESPONSE: PADD #E009

[PRD] DATABASE RECORD: 575955 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/26/07
INITIAL DATE: 04/09/04
ITEM NUMBER: HKT10K DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 10:32:27

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: E010 GC MLP

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. A0701-1 PAGE04 PAGE07 R0403-1 R0504-9
R0608-5
PRIORITY: MANDATORY
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE

1. DESCRIPTION: E010 - SRB HOLDDOWN POST M-3

LOCATION: MLP ZERO LEVEL (MLP B5)
FIELD OF VIEW: SRB HOLD DOWN POST M-3 AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: 16MM
F/L: AS REQUIRED TO MEET FOV REQUIREMENT (NOMINALLY 10MM)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 575955
ITEM NUMBER: HKT10K

FPS: 400
FILM TYPE LOAD: 200 FT
INTERVAL: HBOI INITIATION THROUGH END OF FILM RUN
F/T: F
EXP.: AEC
TIMING: YES, TIME STAMP WITH IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS:

1) HIGH-SPEED CAMERA IS REQUIRED ON THE MLP DECK TO VIEW SRB HOLDDOWN POST M-3 DURING IGNITION AND LIFTOFF TO SHOW RELEASE AND SRM NOZZLE CLEARANCE. PROVIDE A VIEW THAT IS PERPENDICULAR TO MOTION OF THE BLAST COVERS. THE CAMERA SHALL BE PLACED SO THAT THE SRB HOLDDOWN POST IS IN THE CENTER OF THE FRAME.

2) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

3) PROVIDE A LOCATION SURVEY OF MLP CAMERAS IN MLP X, Y, Z COORDINATES, CAMERA HEIGHT AND ELEVATION ANGLE (DEGREES) FROM MLP 0.0" LEVEL AT MLP ZERO DECK (POINT X). ORIGIN OF SURVEY IS FROM MLP ZERO DECK POINT X. POINT X IS DEFINED AS CENTER OF MLP IN Y DIRECTION, CENTER OF FSS IN Z DIRECTION AND MLP 0.0" LEVEL IN X DIRECTION. POINT X IS ALSO KNOWN AS THE CENTER LINE OF THE ET (MLP X=0, Y=0, Z=0). MLP CAMERA COORDINATES ARE MEASURED FROM MLP POINT X USING AN ELECTRONIC THEODOLITE INSTRUMENT (SURVEY GRADE). PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

CONTINUED

[PRD] DATABASE RECORD: 575955
ITEM NUMBER: HKT10K

4) MAKE A MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS
REF: DBR 541334 PHOTO OPTICAL CONTROL SYSTEMS (POCS)

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	2 CD	MSFC/EV12/TOM RIECKHOFF/256 544-7677
2	EP	1	2 CD	JSC/KX/JON DISLER/281 483-5182
3	EP	1	2 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
4	EP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/26/07
RESPONSE: PADD #E010

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 575956 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/26/07
INITIAL DATE: 04/09/04
ITEM NUMBER: HKT11K DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 10:32:46

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: E011 GC MLP

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. A0701-1 PAGE04 PAGE07 R0403-1 R0504-9
R0608-5
PRIORITY: MANDATORY
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE

1. DESCRIPTION: E011 - SRB HOLDDOWN POST M-7

LOCATION: MLP ZERO LEVEL (MLP B7)
FIELD OF VIEW: SRB HOLD DOWN POST M-7 AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: 16MM
F/L: AS REQUIRED TO MEET FOV REQUIREMENT (NOMINALLY 10MM)
FPS: 400
FILM TYPE LOAD: 200 FT
INTERVAL: HBOI INITIATION THROUGH END OF FILM RUN
F/T: F
EXP.: AEC
TIMING: YES, TIME STAMP WITH IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS:

1) HIGH-SPEED CAMERA IS REQUIRED ON THE MLP DECK TO VIEW SRB HOLDDOWN POST M-7 DURING IGNITION AND LIFTOFF TO SHOW RELEASE AND SRM NOZZLE CLEARANCE. PROVIDE A VIEW THAT IS PERPENDICULAR TO MOTION OF THE BLAST COVERS. THE CAMERA

CONTINUED

[PRD] DATABASE RECORD: 575956
ITEM NUMBER: HKT11K

SHALL BE PLACED SO THAT THE SRB HOLDDOWN POST IS IN THE CENTER OF THE FRAME.

2) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

3) PROVIDE A LOCATION SURVEY OF MLP CAMERAS IN MLP X, Y, Z COORDINATES, CAMERA HEIGHT AND ELEVATION ANGLE (DEGREES) FROM MLP 0.0" LEVEL AT MLP ZERO DECK (POINT X). ORIGIN OF SURVEY IS FROM MLP ZERO DECK POINT X. POINT X IS DEFINED AS CENTER OF MLP IN Y DIRECTION, CENTER OF FSS IN Z DIRECTION AND MLP 0.0" LEVEL IN X DIRECTION. POINT X IS ALSO KNOWN AS THE CENTER LINE OF THE ET (MLP X=0, Y=0, Z=0). MLP CAMERA COORDINATES ARE MEASURED FROM MLP POINT X USING AN ELECTRONIC THEODOLITE INSTRUMENT (SURVEY GRADE). PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

4) MAKE A MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS
REF: DBR 541334 PHOTO OPTICAL CONTROL SYSTEMS (POCS)

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 575956
ITEM NUMBER: HKT11K

1	EP	1	2 CD	MSFC/EV12/TOM RIECKHOFF/256 544-7677
2	EP	1	2 CD	JSC/KX/JON DISLER/281 483-5182
3	EP	1	2 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
4	EP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/26/07
RESPONSE: PADD #E011

[PRD] DATABASE RECORD: 575957 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/26/07
INITIAL DATE: 04/09/04
ITEM NUMBER: HKT12K DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 10:33:04

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: E012 GC MLP

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. A0701-1 PAGE04 PAGE07 R0403-1 R0504-9
R0608-5
PRIORITY: MANDATORY
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE

1. DESCRIPTION: E012 - SRB HOLDDOWN POST M-5

LOCATION: MLP ZERO LEVEL (MLP B8)
FIELD OF VIEW: SRB HOLD DOWN POST M-5 AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: 16MM
F/L: AS REQUIRED TO MEET FOV REQUIREMENT (NOMINALLY 10MM)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 575957
ITEM NUMBER: HKT12K

FPS: 400
FILM TYPE LOAD: 200 FT
INTERVAL: HBOI INITIATION THROUGH END OF FILM RUN
F/T: F
EXP.: AEC
TIMING: YES, TIME STAMP WITH IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD) 321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS:

1) HIGH-SPEED CAMERA IS REQUIRED ON THE MLP DECK TO VIEW SRB HOLDDOWN POST M-5 DURING IGNITION AND LIFTOFF TO SHOW RELEASE AND SRM NOZZLE CLEARANCE. THE CAMERA SHALL BE PLACED SO THAT THE SRB HOLDDOWN POST IS IN THE CENTER OF THE FRAME.

2) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

3) PROVIDE A LOCATION SURVEY OF MLP CAMERAS IN MLP X, Y, Z COORDINATES, CAMERA HEIGHT AND ELEVATION ANGLE (DEGREES) FROM MLP 0.0" LEVEL AT MLP ZERO DECK (POINT X). ORIGIN OF SURVEY IS FROM MLP ZERO DECK POINT X. POINT X IS DEFINED AS CENTER OF MLP IN Y DIRECTION, CENTER OF FSS IN Z DIRECTION AND MLP 0.0" LEVEL IN X DIRECTION. POINT X IS ALSO KNOWN AS THE CENTER LINE OF THE ET (MLP X=0, Y=0, Z=0). MLP CAMERA COORDINATES ARE MEASURED FROM MLP POINT X USING AN ELECTRONIC THEODOLITE INSTRUMENT (SURVEY GRADE). PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

4) MAKE A MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM

CONTINUED

[PRD] DATABASE RECORD: 575957
ITEM NUMBER: HKT12K

THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS
REF: DBR 541334 PHOTO OPTICAL CONTROL SYSTEMS (POCS)

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	2 CD	MSFC/EV12/TOM RIECKHOFF/256 544-7677
2	EP	1	2 CD	JSC/KX/JON DISLER/281 483-5182
3	EP	1	2 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
4	EP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/26/07
RESPONSE: PADD #E012

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 575958 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/26/07
INITIAL DATE: 04/09/04
ITEM NUMBER: HKT13K DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 10:33:22

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: E013 GC MLP

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. A0701-1 PAGE04 PAGE07 R0403-1 R0504-9
R0608-5
PRIORITY: MANDATORY
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE

1. DESCRIPTION: E013 - SRB HOLDDOWN POST M-6

LOCATION: MLP ZERO LEVEL (MLP B9)
FIELD OF VIEW: SRB HOLD DOWN POST M-6 AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: 16MM
F/L: AS REQUIRED TO MEET FOV REQUIREMENTS (NOMINALLY 10MM)
FPS: 400
FILM TYPE LOAD: 200 FT
INTERVAL: HBOI INITIATION THROUGH END OF FILM RUN
F/T: F
EXP.: AEC
TIMING: YES, TIME STAMP WITH IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD) 321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS:

1) HIGH-SPEED CAMERA IS REQUIRED ON THE MLP DECK TO VIEW SRB HOLDDOWN POST M-6 DURING IGNITION AND LIFTOFF TO SHOW RELEASE AND SRM NOZZLE CLEARANCE. THE CAMERA SHALL BE PLACED SO THAT THE SRB HOLDDOWN POST IS IN THE

CONTINUED

[PRD] DATABASE RECORD: 575958
ITEM NUMBER: HKT13K

CENTER OF THE FRAME.

2) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

3) PROVIDE A LOCATION SURVEY OF MLP CAMERAS IN MLP X, Y, Z COORDINATES, CAMERA HEIGHT AND ELEVATION ANGLE (DEGREES) FROM MLP 0.0" LEVEL AT MLP ZERO DECK (POINT X). ORIGIN OF SURVEY IS FROM MLP ZERO DECK POINT X. POINT X IS DEFINED AS CENTER OF MLP IN Y DIRECTION, CENTER OF FSS IN Z DIRECTION AND MLP 0.0" LEVEL IN X DIIRECTION. POINT X IS ALSO KNOWN AS THE CENTER LINE OF THE ET (MLP X=0, Y=0, Z=0). MLP CAMERA COORDINATES ARE MEASURED FROM MLP POINT X USING AN ELECTRONIC THEODOLITE INSTRUMENT (SURVEY GRADE). PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

4) MAKE A MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS
REF: DBR 541334 PHOTO OPTICAL CONTROL SYSTEMS (POCS)

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	2 CD	MSFC/EV12/TOM RIECKHOFF/256 544-7677

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 575958
ITEM NUMBER: HKT13K

2	EP	1	2 CD	JSC/KX/JON DISLER/281 483-5182
3	EP	1	2 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
4	EP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/26/07
RESPONSE: PADD #E013

[PRD] DATABASE RECORD: 575959 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/26/07
INITIAL DATE: 04/09/04
ITEM NUMBER: HKT14K DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 10:33:40

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: E014 GC MLP

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. A0701-1 PAGE04 PAGE07 R0403-1 R0504-9
R0608-5
PRIORITY: MANDATORY
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE

1. DESCRIPTION: E014 - SRB HOLDDOWN POST M-8

LOCATION: MLP ZERO LEVEL (MLP B10)
FIELD OF VIEW: SRB HOLD DOWN POST M-8 AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: 16MM
F/L: AS REQUIRED TO MEET FOV REQUIREMENT (NOMINALLY 10MM)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 575959
ITEM NUMBER: HKT14K

FPS: 400
FILM TYPE LOAD: 200 FT
INTERVAL: HBOI INITIATION THROUGH END OF FILM RUN
F/T: F
EXP.: AEC
TIMING: YES, TIME STAMP WITH IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS:

1) HIGH-SPEED CAMERA IS REQUIRED ON THE MLP DECK TO VIEW SRB HOLDDOWN POST M-8 DURING IGNITION AND LIFTOFF TO SHOW RELEASE AND SRM NOZZLE CLEARANCE. PROVIDE A VIEW THAT IS PERPENDICULAR TO MOTION OF THE BLAST COVERS. THE CAMERA SHALL BE PLACED SO THAT THE SRB HOLDDOWN POST IS IN THE CENTER OF THE FRAME.

2) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

3) PROVIDE A LOCATION SURVEY OF MLP CAMERAS IN MLP X, Y, Z COORDINATES, CAMERA HEIGHT AND ELEVATION ANGLE (DEGREES) FROM MLP 0.0" LEVEL AT MLP ZERO DECK (POINT X). ORIGIN OF SURVEY IS FROM MLP ZERO DECK POINT X. POINT X IS DEFINED AS CENTER OF MLP IN Y DIRECTION, CENTER OF FSS IN Z DIRECTION AND MLP 0.0" LEVEL IN X DIRECTION. POINT X IS ALSO KNOWN AS THE CENTER LINE OF THE ET (MLP X=0, Y=0, Z=0). MLP CAMERA COORDINATES ARE MEASURED FROM MLP POINT X USING AN ELECTRONIC THEODOLITE INSTRUMENT (SURVEY GRADE). PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

CONTINUED

[PRD] DATABASE RECORD: 575959
ITEM NUMBER: HKT14K

4) MAKE A MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS
REF: DBR 541334 PHOTO OPTICAL CONTROL SYSTEMS (POCS)

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	2 CD	MSFC/EV12/TOM RIECKHOFF/256 544-7677
2	EP	1	2 CD	JSC/KX/JON DISLER/281 483-5182
3	EP	1	2 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
4	EP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/26/07
RESPONSE: PADD # E014

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD:	575960	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	LLS	APPROVAL DATE:	02/26/07
		INITIAL DATE:	04/09/04
ITEM NUMBER:	HKT15K	DATE LAST CHANGED:	03/06/07
SECTION:	3120	TIME LAST CHANGED:	10:33:58

REQUESTER:	MSFC	KSC	JSC		
SUBREQUESTER:	JSC/HS4-40	JSC/KX	JSC/MS2	KSC/MK-SIO	
	KSC/NE-M7	MSFC/EV12	MSFC/MP71		
TEST CODE:	E015	GC MLP			
ASSOCIATED DOC:	20007S	20014S			
TRACKING NO.	A0701-1	PAGE04	PAGE07	R0403-1	R0504-9
	R0608-5				
PRIORITY:	MANDATORY				
RATIONALE:	ENGINEERING PHOTOGRAPHIC COVERAGE				

1. DESCRIPTION: E015 - SRM NOZZLE, SRB AFT SKIRTS

LOCATION:	MLP ZERO LEVEL (MLP, B1)
FIELD OF VIEW:	SRM NOZZLE ON EAST SRB AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT:	16MM
F/L:	AS REQUIRED TO MEET FOV REQUIREMENTS (NOMINALLY 16MM)
FPS:	400
FILM TYPE LOAD:	200 FT
INTERVAL:	HBOI INITIATION THROUGH END OF FILM RUN
F/T:	FIXED
EXP.:	AEC
TIMING:	YES, TIME STAMP WITH IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS:

1) HIGH-SPEED CAMERA IS REQUIRED TO MONITOR SRM NOZZLE ON RIGHT (EAST) SRB DURING SRB IGNITION AND LIFT-OFF TO SHOW NOZZLE MOTION, HOLDDOWN POST CLEARANCE, GIMBAL POSITION, HEAT SHIELD INTEGRITY, BLAST COVER OPERATION AND SOUND SUPPRESSION

CONTINUED

[PRD] DATABASE RECORD: 575960
ITEM NUMBER: HKT15K

SYSTEM OPERATION. COVERAGE SHALL ALSO INCLUDE NOZZLE GIMBAL POSITION, SRB AFT SKIRTS, SRB THERMAL CURTAIN INTEGRITY AND SSME COLD WALL LEAKS.

2) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

3) PROVIDE A LOCATION SURVEY OF MLP CAMERAS IN MLP X, Y, Z COORDINATES, CAMERA HEIGHT AND ELEVATION ANGLE (DEGREES) FROM MLP 0.0" LEVEL AT MLP ZERO DECK (POINT X). ORIGIN OF SURVEY IS FROM MLP ZERO DECK POINT X. POINT X IS DEFINED AS CENTER OF MLP IN Y DIRECTION, CENTER OF FSS IN Z DIRECTION AND MLP 0.0" LEVEL IN X DIRECTION. POINT X IS ALSO KNOWN AS THE CENTER LINE OF THE ET (MLP X=0, Y=0, Z=0). MLP CAMERA COORDINATES ARE MEASURED FROM MLP POINT X USING AN ELECTRONIC THEODOLITE INSTRUMENT (SURVEY GRADE). PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

4) MAKE A MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC, & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS
REF: DBR 10043 THE EMERGENCY CAMERA CONTROL SYSTEM (ECCS)
REF: DBR 541334 PHOTO OPTICAL CONTROL SYSTEMS (POCS)

DATA DISPOSITION:

CONTINUED

[PRD] DATABASE RECORD: 575960
ITEM NUMBER: HKT15K

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	2 CD	MSFC/EV12/TOM RIECKHOFF/256 544-7677
2	EP	1	2 CD	JSC/KX/JON DISLER/281 483-5182
3	EP	1	2 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
4	EP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/26/07
RESPONSE: PADD # E015

[PRD] DATABASE RECORD: 575961 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/26/07
INITIAL DATE: 04/09/04
ITEM NUMBER: HKT16K DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 10:34:15

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: E016 GC MLP

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. A0701-1 PAGE04 PAGE07 R0403-1 R0504-9
R0608-5
PRIORITY: MANDATORY
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE

1. DESCRIPTION: E016 - SRM NOZZLE, SRB AFT SKIRTS

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 575961
ITEM NUMBER: HKT16K

LOCATION: MLP ZERO LEVEL (MLP, B6)
FIELD OF VIEW: SRM NOZZLE ON WEST SRB AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: 16MM
F/L: AS REQUIRED TO MEET FOV REQUIREMENTS (NOMINALLY 16MM)
FPS: 400
FILM TYPE LOAD: 200 FT
INTERVAL: HBOI INITIATION THROUGH END OF FILM RUN
F/T: F
EXP.: AEC
TIMING: YES, TIME STAMP WITH IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS:

1) HIGH-SPEED CAMERA COVERAGE IS REQUIRED TO MONITOR SRM NOZZLE ON LEFT (WEST) SRB DURING SRB IGNITION AND LIFT-OFF TO SHOW NOZZLE MOTION, HOLDDOWN POST CLEARANCE, GIMBAL POSITION, HEAT SHEILD INTEGRITY, BLAST COVER OPERATION AND SOUND SUPPRESSION SYSTEM OPERATION. COVERAGE SHALL ALSO INCLUDE NOZZLE GIMBAL POSITION, SRB AFT SKIRTS, SRB THERMAL CURTAIN INTEGRITY AND SSME COLD WALL LEAKS.

2) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

3) PROVIDE A LOCATION SURVEY OF MLP CAMERAS IN MLP X, Y, Z COORDINATES, CAMERA HEIGHT AND ELEVATION ANGLE (DEGREES) FROM MLP 0.0" LEVEL AT MLP ZERO DECK (POINT X). ORIGIN OF SURVEY IS FROM MLP ZERO DECK POINT X. POINTT X IS DEFINED AS CENTER OF MLP IN Y DIRECTION, CENTER OF FSS IN Z DIRECTION AND MLP 0.0" LEVEL IN X DIRECTION. POINT X IS ALSO KNOWN AS

CONTINUED

[PRD] DATABASE RECORD: 575961
ITEM NUMBER: HKT16K

THE CENTER LINE OF THE ET (MLP X=0, Y=0, Z=0). MLP CAMERA COORDINATES ARE MEASURED FROM MLP POINT X USING AN ELECTRONIC THEODOLITE INSTRUMENT (SURVERY GRADE). PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

4) MAKE A MZXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER EP REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS
REF: DBR 10043 THE EMERGENCY CAMERA CONTROL SYSTEM (ECCS)
REF: DBR 541334 PHOTO OPTICAL CONTROL SYSTEMS (POCS)

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	2 CD	MSFC/EV12/TOM RIECKHOFF/256 544-7677
2	EP	1	2 CD	JSC/KX/JON DISLER/281 483-5182
3	EP	1	2 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
4	EP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387

CONTINUED

[PRD] DATABASE RECORD: 575961
ITEM NUMBER: HKT16K

SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/26/07
RESPONSE: PADD #E016

[PRD] DATABASE RECORD: 575962 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/26/07
INITIAL DATE: 04/09/04
ITEM NUMBER: HKT17K DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 10:34:32

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: E017 GC MLP

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. A0701-1 PAGE04 PAGE07 R0403-1 R0504-9
R0608-5
PRIORITY: MANDATORY
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE

1. DESCRIPTION: E017 - LO2 T-0 UMBILICAL

LOCATION: MLP ZERO LEVEL (MLP, 01)
FIELD OF VIEW: LO2 TSM CARRIER DISCONNECT AND RETRACTION AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: 16MM
F/L: AS REQUIRED TO MEET FOV REQUIREMENT (NOMINALLY 10MM)
FPS: 400
FILM TYPE LOAD: 200 FT
INTERVAL: HBOI INITIATION THROUGH END OF FILM RUN
F/T: F
EXP.: AEC
TIMING: YES, TIME STAMP WITH IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 575962
ITEM NUMBER: HKT17K

JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS:

1) HIGH-SPEED CAMERA COVERAGE IS REQUIRED OF LO2 TSM T-0 UMBILICAL DISCONNECT AND RETRACTION DURING IGNITION AND LIFT-OFF. VIEW FROM CARRIER PLATE INTERFACE AT ORBITER TO TSM DOOR, PERPENDICULAR TO MOVEMENT, TO INCLUDE ALL VISIBLE PORTIONS OF LO2 FOR POSSIBLE ANOMALIES.

2) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

3) PROVIDE A LOCATION SURVEY OF MLP CAMERAS IN MLP X, Y, Z COORDINATES, CAMERA HEIGHT AND ELEVATION ANGLE (DEGREES) FROM MLP 0.0" LEVEL AT MLP ZERO DECK (POINT X). ORIGIN OF SURVEY IS FROM MLP ZERO DECK POINT X. POINT X IS DEFINED AS CENTER OF MLP IN Y DIRECTION, CENTER OF FSS IN Z DIRECTION AND MLP 0.0" LEVEL IN X DIRECTION. POINT X IS ALSO KNOWN AS THE CENTER LINE OF THE ET (MLP X=0, Y=0, Z=0). MLP CAMERA COORDINATES ARE MEASURED FROM MLP POINT X USING AN ELECTRONIC THEODOLITE INSTRUMENT (SURVEY GRADE). PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

4) MAKE A MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND

CONTINUED

[PRD] DATABASE RECORD: 575962
ITEM NUMBER: HKT17K

LANDINGS
REF: DBR 541334 PHOTO OPTICAL CONTROL SYSTEMS (POCS)

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	2 CD	MSFC/EV12/TOM RIECKHOFF/256 544-7677
2	EP	1	2 CD	JSC/KX/JON DISLER/281 483-5182
3	EP	1	2 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
4	EP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/26/07
RESPONSE: PADD #E017

[PRD] DATABASE RECORD: 575963 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/26/07
INITIAL DATE: 04/09/04
ITEM NUMBER: HKT18K DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 10:34:49

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: E018 GC MLP

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. A0701-1 PAGE04 PAGE07 R0403-1 R0504-9
R0608-5

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 575963
ITEM NUMBER: HKT18K

PRIORITY: MANDATORY
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE

1. DESCRIPTION: E018 - LH2 T-0 UMBILICAL

LOCATION: MLP ZERO LEVEL (MLP, 04)
FIELD OF VIEW: TSM CARRIER DISCONNECT AND RETRACTION AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: 16MM
F/L: AS REQUIRED TO MEET FOV REQUIREMENT (NOMINALLY 10MM)
FPS: 400
FILM TYPE LOAD: 200 FT
INTERVAL: HBOI INITIATION THROUGH END OF FILM RUN
F/T: F
EXP.: AEC
TIMING: YES, TIME STAMP WITH IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS:

1) HIGH-SPEED CAMERA COVERAGE IS REQUIRED OF LH2 TSM T-0 UMBILICAL DISCONNECT AND RETRACTION DURING IGNITION AND LIFT-OFF. VIEW FROM CARRIER PLATE INTERFACE AT ORBITER TO TSM DOOR, PERPENDICULAR TO MOVEMENT, TO INCLUDE ALL VISIBLE PORTIONS OF LH2 LINE FOR POSSIBLE ANOMALIES.

2) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

3) PROVIDE A LOCATION SURVEY OF MLP CAMERAS IN MLP X, Y, Z COORDINATES, CAMERA HEIGHT AND ELEVATION ANGLE (DEGREES)

CONTINUED

[PRD] DATABASE RECORD: 575963
ITEM NUMBER: HKT18K

FROM MLP 0.0" LEVEL AT MLP ZERO DECK (POINT X). ORIGIN OF SURVEY IS FROM MLP ZERO DECK POINT X. POINT X IS DEFINED AS CENTER OF MLP IN Y DIRECTION, CENTER OF FSS IN Z DIRECTION AND MLP 0.0" LEVEL IN X DIRECTION. POINT X IS ALSO KNOWN AS THE CENTER LINE OF THE ET (MLP X=0, Y=0, Z=0). MLP CAMERA COORDINATES ARE MEASURED FROM MLP POINT X USING AN ELECTRONIC THEODOLITE INSTRUMENT (SURVEY GRADE). PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

4) MAKE A MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS
REF: DBR 541334 PHOTO OPTICAL CONTROL SYSTEMS (POCS)

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	2 CD	MSFC/EV12/TOM RIECKHOFF/256 544-7677
2	EP	1	2 CD	JSC/KX/JON DISLER/281 483-5182
3	EP	1	2 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
4	EP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 575963
ITEM NUMBER: HKT18K

RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/26/07
RESPONSE: PADD #E018

[PRD] DATABASE RECORD: 575964 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/26/07
INITIAL DATE: 04/09/04
ITEM NUMBER: HKT19K DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 10:35:08

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: E019 GC MLP

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. A0701-1 PAGE04 PAGE07 R0403-1 R0504-9
R0608-5
PRIORITY: MANDATORY
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE

1. DESCRIPTION: E019 - SSME NOZZLES AND ORBITER BASE HEAT SHIELD;
FREE BURNING HYDROGEN

LOCATION: MLP ZERO LEVEL (MLP, 02)
FIELD OF VIEW: INSIDE OF SSME NOZZLES #1 AND #3 AND SURROUNDING
HEAT SHIELD AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: 16MM
F/L: AS REQUIRED TO MEET FOV REQUIREMENT (NOMINALLY 10MM)
FPS: 400
FILM TYPE LOAD: 200 FT
INTERVAL: HBOI INITIATION THROUGH END OF FILM RUN
F/T: F
EXP.: AEC
TIMING: YES, TIME STAMP WITH IRIG-B TIMING

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 575964
ITEM NUMBER: HKT19K

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS:

1) HIGH-SPEED CAMERA COVERAGE OF INSIDE/OUTSIDE SSME NOZZLES #1 AND #3 AND SURROUNDING BASE HEAT SHIELD FROM PRIOR TO IGNITION OF FREE HYDROGEN BURN OFF SYSTEM THROUGH SSME START UP SEQUENCE AND OPERATION. COVERAGE IS REQUIRED FOR LEAKAGE SURVEILLANCE AND EVALUATION OF SSME EYELID ICE FORMATION, ENGINE IGNITION, AND BASE HEAT SHIELD INTEGRITY.

2) A COMBINATION OF CAMERAS E019, E020 MUST PROVIDE COVERAGE OF THE INSIDE OF ALL THREE SSME NOZZLES.

3) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

4) PROVIDE A LOCATION SURVEY OF MLP CAMERAS IN MLP X, Y, Z COORDINATES, CAMERA HEIGHT AND ELEVATION ANGLE (DEGREES) FROM MLP 0.0" LEVEL AT MLP ZERO DECK (POINT X). ORIGIN OF SURVEY IS FROM MLP ZERO DECK POINT X. POINT X IS DEFINED AS CENTER OF MLP IN Y DIRECTION, CENTER OF FSS IN Z DIRECTION AND MLP 0.0" LEVEL IN X DIRECTION. POINT X IS ALSO KNOWN AS THE CENTER LINE OF THE ET (MLP X=0, Y=0, Z=0). MLP CAMERA COORDINATES ARE MEASURED FROM MLP POINT X USING AN ELECTRONIC THEODOLITE INSTRUMENT (SURVEY GRADE). PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

5) MAKE A MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 575964
ITEM NUMBER: HKT19K

AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS
REF: DBR 10043 THE EMERGENCY CAMERA CONTROL SYSTEM (ECCS)
REF: DBR 541334 PHOTO OPTICAL CONTROL SYSTEMS (POCS)

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	2 CD	MSFC/EV12/TOM RIECKHOFF/256 544-7677
2	EP	1	2 CD	JSC/KX/JON DISLER/281 483-5182
3	EP	1	2 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
4	EP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)
6	VHS	1	8 CD	ROCKETDYNE: 6633 CANOGA AVENUE CANOGA PARK, CA 91304 ATTN: LORIN BLEWETT/AC58
7	BETA-SP	1	4 CD	JSC/PAO (COMPOSITE)

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/26/07
RESPONSE: PADD #E019

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 575965 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/26/07
INITIAL DATE: 04/09/04
ITEM NUMBER: HKT20K DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 10:35:37

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: E020 GC MLP

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. A0701-1 PAGE04 PAGE07 R0403-1 R0504-9
R0608-5
PRIORITY: MANDATORY
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE

1. DESCRIPTION: E020 - SSME NOZZLES AND ORBITER BASE HEAT SHIELD;
FREE BURNING HYDROGEN

LOCATION: MLP ZERO LEVEL (MLP, 03)
FIELD OF VIEW: INSIDE OF SSME NOZZLES #1 AND #2 AND SURROUNDING
HEAT SHIELD AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: 16MM
F/L: AS REQUIRED TO MEET FOV REQUIREMENT (NOMINALLY 10MM)
FPS: 400
FILM TYPE LOAD: 200 FT
INTERVAL: HBOI INITIATION THROUGH END OF FILM RUN
F/T: F
EXP.: AEC
TIMING: YES, TIME STAMP WITH IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD) 321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS:

1) HIGH-SPEED CAMERA COVERAGE OF INSIDE/OUTSIDE SSME NOZZLES
#1 AND #2 AND SURROUNDING BASE HEAT SHIELD FROM PRIOR TO

CONTINUED

[PRD] DATABASE RECORD: 575965
ITEM NUMBER: HKT20K

IGNITION OF FREE HYDROGEN BURN OFF SYSTEM THROUGH SSME START UP SEQUENCE AND OPERATION. COVERAGE IS REQUIRED FOR LEAKAGE SURVEILLANCE AND EVALUATION OF SSME EYELID ICE FORMATION, ENGINE IGNITION, AND BASE HEAT SHIELD INTEGRITY.

2) A COMBINATION OF CAMERAS E019, E020 MUST PROVIDE COVERAGE OF THE INSIDE OF ALL THREE SSME NOZZLES

3) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

4) PROVIDE A LOCATION SURVEY OF MLP CAMERAS IN MLP X, Y, Z COORDINATES, CAMERA HEIGHT AND ELEVATION ANGLE (DEGREES) FROM MLP 0.0" LEVEL AN MLP ZERO DECK (POINT X). ORIGIN OF SURVEY IS FROM MLP ZERO DECK POINT X. POINT X IS DEFINED AS CENTER OF MLP IN Y DIRECTION, CENTER OF FSS IN Z DIRECTION AND MLP 0.0" LEVEL IN X DIRECTION. POINT X IS ALSO KNOWN AS THE CENTER LINE OF THE ET (MLP X=0, Y=0, Z=0). MLP CAMERA COORDINATES ARE MEASURED FROM MLP POINT X USING AN ELECTRONIC THEODOLITE INSTRUMENT (SURVEY GRADE). PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

5) MAKE A MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS
REF: DBR 10043 THE EMERGENCY CAMERA CONTROL SYSTEM (ECCS)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 575965
ITEM NUMBER: HKT20K

REF: DBR 541334 PHOTO OPTICAL CONTROL SYSTEMS (POCS)

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	2 CD	MSFC/EV12/TOM RIECKHOFF/256 544-7677
2	EP	1	2 CD	JSC/KX/JON DISLER/281 483-5182
3	EP	1	2 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
4	EP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)
6	VHS	1	8 CD	ROCKETDYNE: 6633 CANOGA AVENUE CANOGA PARK, CA 91304 ATTN: LORIN BLEWETT/AC58
7	BETA-SP	1	4 CD	JSC/PAO (COMPOSITE)

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 867-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/26/07
RESPONSE: PADD #E020

[PRD] DATABASE RECORD: 575968 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/26/07
INITIAL DATE: 04/09/04
ITEM NUMBER: KT21K DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 10:36:00

REQUESTER: KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO KSC/NE-M7
TEST CODE: E021 GC MLP

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. A0701-1 PAGE04 PAGE07 R0403-1 R0504-9

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 575968
ITEM NUMBER: KT21K

R0608-5
PRIORITY: MANDATORY
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE

1. DESCRIPTION: E021 - VIEW OF LO2 TSM CARRIER RETRACTION FROM INSIDE OF LO2 TSM

LOCATION: INSIDE LO2 TSM STRUCTURE (MLP T-1)
FIELD OF VIEW: LO2 TSM UMBILICAL CARRIER PLATE AND TSM INTERIOR AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: 16MM
F/L: AS REQUIRED TO MEET FOV REQUIREMENT (NOMINALLY 16MM)
FPS: 400
FILM TYPE LOAD: 200 FT
INTERVAL: HBOI INITIATION THROUGH END OF FILM RUN
F/T: F
EXP.: AEC
TIMING: YES, TIME STAMP WITH IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS:

1) HIGH-SPEED CAMERA COVERAGE IS REQUIRED FOR FIXED TARGETS ON LO2 TSM STRUCTURE AND TARGETS ON LO2 UMBILICAL CARRIER PLATE TO MEASURE DEFLECTION IN X AND Y PLANES. TSM REQUIRES INTERNAL ADDED LIGHTING FOR EXPOSURE.

2) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

3) PROVIDE A LOCATION SURVEY OF MLP CAMERAS IN MLP X, Y, Z COORDINATES, CAMERA HEIGHT AND ELEVATION ANGLE (DEGREES)

CONTINUED

[PRD] DATABASE RECORD: 575968
ITEM NUMBER: KT21K

FROM MLP 0.0" LEVEL AT MLP ZERO DECK (POINT X). ORIGIN OF SURVEY IS FROM MLP ZERO DECK POINT X. POINT X IS DEFINED AS CENTER OF MLP IN Y DIRECTION, CENTER OF FSS IN Z DIRECTION AND MLP 0.0" LEVEL IN X DIRECTION. POINT X IS ALSO KNOWN AS THE CENTER LINE OF THE ET (MLP X=0, Y=0, Z=0). MLP CAMERA COORDINATES ARE MEASURED FROM MLP POINT X USING AN ELECTRONIC THEODOLITE INSTRUMENT (SURVEY GRADE). PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

4) MAKE A MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS
REF: DBR 541334 PHOTO OPTICAL CONTROL SYSTEMS (POCS)

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	2 CD	JSC/KX/JON DISLER/281 483-5182
2	EP	1	2 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
3	EP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635
4	IP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 575968
ITEM NUMBER: KT21K

RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/26/07
RESPONSE: PADD #E021

[PRD] DATABASE RECORD: 575969 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/26/07
INITIAL DATE: 04/09/04
ITEM NUMBER: KT22K DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 10:36:18

REQUESTER: KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7
TEST CODE: E022 GC MLP

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. A0701-1 PAGE04 PAGE07 R0403-1 R0504-9
R0608-5
PRIORITY: MANDATORY
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE.

1. DESCRIPTION: E022 - VIEW OF LH2 TSM CARRIER RETRACTION FROM
INSIDE OF LH2 TSM

LOCATION: INSIDE LH2 TSM STRUCTURE (MLP T-2)
FIELD OF VIEW: LH2 TSM UMBILICAL CARRIER PLATE AND TSM INTERIOR AS
SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: 16MM
F/L: AS REQUIRED TO MEET FOV REQUIREMENT (NOMINALLY 16MM)
FPS: 400
FILM TYPE LOAD: 200 FT
INTERVAL: HBOI INITIATION THROUGH END OF FILM RUN
F/T: F
EXP.: F
TIMING: YES, TIME STAMP WITH IRIG-B TIMING

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 575969
ITEM NUMBER: KT22K

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS:

1) HIGH-SPEED CAMERA COVERAGE IS REQUIRED FOR FIXED TARGETS ON LH2 TSM STRUCTURE AND TARGETS ON LH2 UMBILICAL CARRIER PLATE TO MEASURE DEFLECTION IN X AND Y PLANES. TSM REQUIRES INTERNAL ADDED LIGHTING FOR EXPOSURE.

2) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

3) PROVIDE A LOCATION SURVEY OF MLP CAMERAS IN MLP X, Y, Z COORDINATES, CAMERA HEIGHT AND ELEVATION ANGLE (DEGREES) FROM MLP 0.0" LEVEL AT MLP ZERO DECK (POINT X). ORIGIN OF SURVEY IS FROM MLP ZERO DECK POINT X. POINT X IS DEFINED AS CENTER OF MLP IN Y DIRECTION, CENTER OF FSS IN Z DIRECTION AND MLP 0.0" LEVEL IN X DIRECTION. POINT X IS ALSO KNOWN AS THE CENTER LINE OF THE ET (MLP X=0, Y=0. Z=0). MLP CAMERA COORDINATES ARE MEASURED FROM MLP POINT X USING AN ELECTRONIC THEODOLITE INSTRUMENT (SURVEY GRADE). PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

4) MAKE A MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED B THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 575969
ITEM NUMBER: KT22K

REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS
REF: DBR 541334 PHOTO OPTICAL CONTROL SYSTEMS (POCS)

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	2 CD	JSC/KX/JON DISLER/281 483-5182
2	EP	1	2 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
3	EP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635
4	IP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/26/07
RESPONSE: PADD #E022

[PRD] DATABASE RECORD: 575970 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/23/07
INITIAL DATE: 04/09/04
ITEM NUMBER: HKT23K DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 12:09:59

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: E031 GC FSS

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. A0701-1 PAGE04 PAGE07 R0403-1 R0504-9

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 575970
ITEM NUMBER: HKT23K

R0608-5
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LAUNCH SUPPORT, SAFETY REQUIREMENTS.

1. DESCRIPTION: E031 - ET ORBITER LH2 UMBILICAL; LH2 LOWER FEEDLINE

LOCATION: FSS (95FT)
FIELD OF VIEW: VIEW ORB/ET LH2 FLUID AND ELECTRICAL UMBILICAL (EO-4), AND SURROUNDING AREA AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: 16MM
F/L: AS REQUIRED TO MEET FOV REQUIREMENTS (NOMINALLY 25MM)
FPS: 400
FILM TYPE LOAD: 200 FT
INTERVAL: HBOI INITIATION THROUGH END OF FILM RUN
F/T: F
EXP.: AEC
TIMING: YES, TIME STAMP WITH IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS:

1). HIGH-SPEED CAMERA COVERAGE IS REQUIRED TO VIEW THE ORB/ET LH2 FLUID AND ELECTRICAL UMBILICAL (E0-4), LH2 FEEDLINE AND TANK PENETRATION DURING IGNITION AND LIFTOFF TO DETERMINE ANOMALIES SUCH AS ICE FORMATION CRYO LEAKAGE, TPS FAILURE AND STRUCTURAL FAILURE.

2). IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF SOOO7 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD, DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

3) PROVIDE A LOCATION SURVEY OF FSS CAMERAS IN MLP X, Y,

CONTINUED

[PRD] DATABASE RECORD: 575970
ITEM NUMBER: HKT23K

Z COORDINATES, CAMERA HEIGHT AND ELEVATION ANGLE (DEGREES) FROM MLP 0.0" LEVEL AT MLP ZERO DECK (POINT X). ORIGIN OF SURVEY IS FROM MLP ZERO DECK POINT X. POINT X IS DEFINED AS CENTER OF MLP IN Y DIRECTION, CENTER OF FSS IN Z DIRECTION AND MLP 0.0" LEVEL IN X DIRECTION. POINT X IS ALSO KNOWN AS THE CENTER LINE OF THE ET (MLP X=0, Y=0, Z=0). FSS CAMERA COORDINATES ARE MEASURED FROM MLP POINT X USING AN ELECTRONIC THEODOLITE INSTRUMENT (SURVEY GRADE). PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

4) MAKE A MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS
REF: DBR 541334 PHOTO OPTICAL CONTROL SYSTEMS (POCS)

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	1 CD	MSFC/EV12/TOM RIECKHOFF/256 544-7677
2	EP	1	1 CD	JSC/KX/JON DISLER/281 483-5182
3	EP	1	1 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
4	EP	1	1 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	1 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST FOR SCANNING PURPOSES)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 575970
ITEM NUMBER: HKT23K

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/23/07
RESPONSE: PADD #E031

[PRD] DATABASE RECORD: 575974 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/23/07
INITIAL DATE: 04/09/04
ITEM NUMBER: HKT24K DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 12:10:14

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: E033 GC FSS

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. A0701-1 PAGE04 PAGE07 R0403-1 R0504-9
R0608-5
PRIORITY: MANDATORY
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE, SAFETY REQUIREMENT.

1. DESCRIPTION: E033 - ET GUCP/GH2 VENT LINE/GH2 VENT ARM ROTATION

LOCATION: FSS (235 FT)
FIELD OF VIEW: ET GH2 UMBILICAL VENT LINE CARRIER AND INTERFACES AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: 16MM
F/L: AS REQUIRED TO MEET FOV REQUIREMENTS (NOMINALLY 100MM)
FPS: 400
FILM TYPE LOAD: 200 FT
INTERVAL: HBOI INITIATION THROUGH END OF FILM RUN
F/T: F
EXP.: AEC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 575974
ITEM NUMBER: HKT24K

TIMING: YES, TIME STAMP WITH IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS:

1). HIGH-SPEED CAMERA COVERAGE IS REQUIRED TO VIEW ET GH2 UMBILICAL VENT LINE CARRIER AND INTERFACES DURING IGNITION AND LIFTOFF FOR ICING AND POSSIBLE DISCONNECT ANOMALIES.

2) COMBINATION OF CAMERAS E033, E039, E041 AND E042 MUST PROVIDE VIEWS OF THE ENTIRE GH2 VENT LINE FROM SSME IGNITION THROUGH LATCH BACK, INCLUDING:

2.1) CLOSE-UP IMAGE OF THE GUCP, LINES TO THE CARRIER PLATE, AND INTERTANK FOAM SURROUNDING THE GUCP INTERFACE. FOV SHALL BE WIDE ENOUGH TO IMAGE THE GUCP DURING VEHICLE PRE-LAUNCH "TWANG".

2.2) COVERAGE, FROM A NORTHEAST PERIMETER SITE, FOR THE ET GUCP/GH2 VENT LINE PRIOR TO SSME IGNITION THROUGH VEHICLE TOWER CLEAR TO VIEW FOR ICING, DISCONNECT ANOMALIES, AND GUCP/GH2 VENT LINE/VEHICLE CLEARANCE DURING DISCONNECT, ROTATION, AND LINE DECELERATION.

2.3) CLEARANCE BETWEEN THE VENT LINE STRUCTURE AND THE LAUNCH VEHICLE DURING GH2 VENT LINE ROTATION AND VEHICLE LIFTOFF.

2.4) GH2 VENT LINE LATCH BACK INSIDE THE ET INTERTANK ACCESS STRUCTURE WITH A FOV WIDE ENOUGH TO CAPTURE ANY POSSIBLE REBOUND.

3) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES STATUS TO BE REPORTED TO THE IPI LEAD. DURING SOOO7 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

CONTINUED

[PRD] DATABASE RECORD: 575974
ITEM NUMBER: HKT24K

4) PROVIDE A LOCATION SURVEY OF FSS CAMERAS IN MLP X, Y, Z COORDINATES, CAMERA HEIGHT AND ELEVATION ANGLE (DEGREES) FROM MLP 0.0" LEVEL AT MLP ZERO DECK (POINT X). ORIGIN OF SURVEY IS FROM MLP ZERO DECK POINT X. POINT X IS DEFINED AS CENTER OF MLP IN Y DIRECTION, CENTER OF FSS IN Z DIRECTION AND MLP 0.0" LEVEL IN X DIRECTION. POINT X IS ALSO KNOWN AS THE CENTER LINE OF THE ET (MLP X=0, Y=0, Z=0). FSS CAMERA COORDINATES ARE MEASURED FROM MLP POINT X USING AN ELECTRONIC THEODOLITE INSTRUMENT (SURVEY GRADE). PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

5) MAKE MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC, & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS
REF: DBR 541334 PHOTO OPTICAL CONTROL SYSTEMS (POCS)

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	1 CD	MSFC/EV12/TOM RIECKHOFF/256 544-7677
2	EP	1	1 CD	JSC/KX/JON DISLER/281 483-5182
3	EP	1	1 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
4	EP	1	1 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	1 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 575974
ITEM NUMBER: HKT24K

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/23/07
RESPONSE: PADD # E033

[PRD] DATABASE RECORD: 575985 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/23/07
INITIAL DATE: 04/09/04
ITEM NUMBER: HKT25K DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 12:10:26

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: E034 GC FSS

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. A0701-1 PAGE04 PAGE07 R0403-1 R0504-9
R0608-5
PRIORITY: MANDATORY
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE

1. DESCRIPTION: E034 - ORB TPS SURFACES

LOCATION: FSS (255 FT)
FIELD OF VIEW: ORBITER TILED SURFACES ON FORWARD PORTION OF ORBITER
AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: 16MM
F/L: AS REQUIRED TO MEET FOV REQUIREMENTS (NOMINALLY 16MM)
FPS: 400
FILM TYPE LOAD: 200 FT
INTERVAL: HBOI INITIATION THROUGH END OF FILM RUN
F/T: F
EXP.: AEC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 575985
ITEM NUMBER: HKT25K

TIMING: YES, TIME STAMP WITH IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS: 1) HIGH-SPEED CAMERA COVERAGE IS REQUIRED OF THE FORWARD ORBITER SURFACES INCLUDING FWD RCS, WINDOWS AND TPS. VIEW TO DETERMINE TPS INTEGRITY DURING THE LAUNCH ENVIRONMENT.

2) A COMBINATION OF CAMERAS E005, E034, E036, AND E040 MUST PROVIDE COVERAGE OF:
2.1) ORBITER BASE HEAT SHIELD
2.2) UNDERSIDE OF BODY FLAP AND WING/ELEVON AREA
2.3) FORWARD 50% OF ORBITER BELLY

3) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

4) PROVIDE A LOCATION SURVEY OF FSS CAMERAS IN MLP X, Y, Z COORDINATES, CAMERA HEIGHT AND ELEVATION ANGLE (DEGREES) FROM MLP 0.0" LEVEL AT MLP ZERO DECK (POINT X). ORIGIN OF SURVEY IS FROM MLP ZERO DECK POINT X. POINT X IS DEFINED AS CENTER OF MLP IN Y DIRECTION, CENTER OF FSS IN Z DIRECTION AND MLP 0.0" LEVEL IN X DIRECTION. POINT X IS ALSO KNOWN AS THE CENTER LINE OF THE ET (MLP X=0, Y=0, Z=0). FSS CAMERA COORDINATES ARE MEASURED FROM MLP POINT X USING AN ELECTRONIC THEODOLITE INSTRUMENT (SURVEY GRADE). PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

5) MAKE MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM

CONTINUED

[PRD] DATABASE RECORD: 575985
ITEM NUMBER: HKT25K

THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC, & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDING
REF: DBR 10043 THE EMERGENCY CAMERA CONTROL SYSTEM (ECCS)
REF: DBR 541334 PHOTO OPTICAL CONTROL SYSTEMS (POCS)

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	1 CD	MSFC/EV12/TOM RIECKHOFF/256 544-7677
2	EP	1	1 CD	JSC/KX/JON DISLER/281 483-5182
3	EP	1	1 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
4	EP	1	1 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	1 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/23/07
RESPONSE: PADD #E034

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 575987 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/23/07
INITIAL DATE: 04/09/04
ITEM NUMBER: HKT26K DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 12:10:39

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: E036 GC FSS

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. A0701-1 PAGE04 PAGE07 R0403-1 R0504-9
R0608-5
PRIORITY: MANDATORY
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE

1. DESCRIPTION: E036 - ORB TPS SURFACES

LOCATION: FSS (255 FT)
FIELD OF VIEW: ORBITER SURFACES ON AFT PORTION OF ORBITER
AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: 16MM
F/L: AS REQUIRED TO MEET FOV REQUIREMENTS (NOMINALLY 16MM)
FPS: 400
FILM TYPE LOAD: 200 FT
INTERVAL: HBOI INITIATION THROUGH END OF FILM RUN
F/T: F
EXP.: AEC
TIMING: YES, TIME STAMP WITH IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD) 321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS: 1) HIGH-SPEED CAMERA COVERAGE IS REQUIRED OF THE ORBITER TILED AFT SURFACES TO SHOW HRSI ON BODY FLAP AND SURROUNDING AREA. VIEW TO DETERMINE TPS INTEGRITY DURING THE LAUNCH ENVIRONMENT.

CONTINUED

[PRD] DATABASE RECORD: 575987
ITEM NUMBER: HKT26K

2) A COMBINATION OF CAMERAS E005, E034, E036, AND E040 MUST PROVIDE COVERAGE OF:
   2.1) ORBITER BASE HEAT SHIELD
   2.2) UNDERSIDE OF BODY FLAP AND WING/ELEVON AREA
   2.3) FORWARD 50% OF ORBITER BELLY

3) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

4) PROVIDE A LOCATION SURVEY OF FSS CAMERAS IN MLP X, Y, Z COORDINATES, CAMERA HEIGHT AND ELEVATION ANGLE (DEGREES) FROM MLP 0.0" LEVEL AT MLP ZERO DECK (POINT X). ORIGIN OF SURVEY IS FROM MLP ZERO DECK POINT X. POINT X IS DEFINED AS CENTER OF MLP IN Y DIRECTION, CENTER OF FSS IN Z DIRECTION AND MLP 0.0" LEVEL IN X DIRECTION. POINT X IS ALSO KNOWN AS THE CENTER LINE OF THE ET (MLP X=O, Y=0, Z=0). FSS CAMERA COORDINATES ARE MEASURED FROM MLP POINT X USING AN ELECTRONIC THEODOLITE INSTRUMENT (SURVEY GRADE). PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

5) MAKE A MAXIMUM OF 3 EP & E IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC, & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS
REF: DBR 10043 THE EMERGENCY CAMERA CONTROL SYSTEM (ECCS)

CONTINUED

[PRD] DATABASE RECORD: 575987
ITEM NUMBER: HKT26K

REF: DBR 541334 PHOTO OPTICAL CONTROL SYSTEMS (POCS)

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	1 CD	MSFC/EV12/TOM RIECKHOFF/256 544-7677
2	EP	1	1 CD	JSC/KX/JON DISLER/281 483-5182
3	EP	1	1 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
4	EP	1	1 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	1 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/23/07
RESPONSE: PADD #E036

[PRD] DATABASE RECORD: 575988 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/23/07
INITIAL DATE: 04/09/04
ITEM NUMBER: HKT27K DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 12:11:01

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: E039 GC FSS

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. A0701-1 PAGE04 PAGE07 R0403-1 R0504-9
R0608-5
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LAUNCH SUPPORT, SAFETY REQUIREMENT.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 575988
ITEM NUMBER: HKT27K

1. DESCRIPTION: E039 - ET GUCP/GH2 VENT LINE/GH2 VENT ARM ROTATION

LOCATION: FSS (195 FT)
FIELD OF VIEW: VENT LINE DURING FINAL PORTION OF DROP THROUGH LATCHBACK AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: 16MM
F/L: AS REQUIRED TO MEET FOV REQUIREMENTS (NOMINALLY 10MM)
FPS: 400
FILM TYPE LOAD: 200 FT
INTERVAL: HBOI INITIATION THROUGH END OF FILM RUN
F/T: F
EXP.: AEC
TIMING: YES, TIME STAMP WITH IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS:

1) HIGH-SPEED CAMERA COVERAGE IS REQUIRED TO IMAGE THE GH2 VENT LINE DURING FINAL PORTION OF DROP, DECELERATION PHASE, AND LATCH BACK INSIDE THE FSS ET INTERTANK ACCESS STRUCTURE TO VIEW FOR POSSIBLE ANOMALIES WITH A FOV WIDE ENOUGH TO CAPTURE ANY POSSIBLE REBOUND OR DEBRIS GENERATION.

2) COMBINATION OF CAMERAS E033, E039, E041, AND E042 MUST PROVIDE VIEWS OF THE ENTIRE GH2 VENT LINE FROM SSME IGNITION THROUGH LATCH BACK:

2.1) CLOSE-UP IMAGE OF THE GUCP, LINES TO THE CARRIER PLATE, AND INTERTANK FOAM SURROUNDING THE GUCP INTERFACE. FOV SHALL BE WIDE ENOUGH TO IMAGE THE GUCP DURING VEHICLE PRE-LAUNCH "TWANG".
2.2) COVERAGE, FROM A NORTHEAST PERIMETER SITE, FOR THE ET GUCP/GH2 VENT LINE PRIOR TO SSME IGNITION THROUGH

CONTINUED

[PRD] DATABASE RECORD: 575988
ITEM NUMBER: HKT27K

VEHICLE TOWER CLEAR TO VIEW FOR ICING, DISCONNECT ANOMALIES, AND GUCP/GH2 VENT LINE/VEHICLE CLEARANCE DURING DISCONNECT, ROTATION, AND LINE DECELERATION.

2.3) CLEARANCE BETWEEN THE VENT LINE STRUCTURE AND THE LAUNCH VEHICLE DURING GH2 VENT LINE ROTATION, AND VEHICLE LIFTOFF.

2.4) GH2 VENT LINE LATCH BACK INSIDE THE ET INTERTANK ACCESS STRUCTURE WITH A FOV WIDE ENOUGH TO CAPTURE ANY POSSIBLE REBOUND.

3) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

4) PROVIDE A LOCATION SURVEY OF FSS CAMERAS IN MLP X, Y, Z COORDINATES, CAMERA HEIGHT AND ELEVATION ANGLE (DEGREES) FROM MLP 0.0" LEVEL AT MLP ZERO DECK (POINT X). ORIGIN OF SURVEY IS FROM MLP ZERO DECK POINT X. POINT X IS DEFINED AS CENTER OF MLP IN Y DIRECTION, CENTER OF FSS IN Z DIRECTION AND MLP 0.0" LEVEL IN X DIRECTION. POINT X IS ALSO KNOWN AS THE CENTER LINE OF THE ET (MLP X=0, Y=0, Z=0). FSS CAMERA COORDINATES ARE MEASURED FROM MLP POINT X USING AN ELECTRONIC THEODOLITE INSTRUMENT (SURVEY GRADE). PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

5) MAKE A MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND

CONTINUED

[PRD] DATABASE RECORD: 575988
ITEM NUMBER: HKT27K

LANDINGS
REF: DBR 541334 PHOTO OPTICAL CONTROL SYSTEMS (POCS)

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	1 CD	JSC/KX/JON DISLER/281 483-5182
2	EP	1	1 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
3	EP	1	1 CD	KSC/NE-M7/TOM FORD/321 861-3635
4	IP	1	1 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/23/07
RESPONSE: PADD #E039

[PRD] DATABASE RECORD: 575989 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/23/07
INITIAL DATE: 04/09/04
ITEM NUMBER: HKT28K DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 12:11:15

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: E040 GC FSS

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. A0701-1 PAGE04 PAGE07 R0403-1 R0504-9
R0608-5
PRIORITY: MANDATORY

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 575989
ITEM NUMBER: HKT28K

RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE

1. DESCRIPTION: E040 - FWD ET SURFACES

LOCATION: FSS (275 FT)
FIELD OF VIEW: TIP OF ET AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: 16MM
F/L: AS REQUIRED TO MEET FOV REQUIREMENTS (NOMINALLY 10MM)
FPS: 400
FILM TYPE LOAD: 200 FT
INTERVAL: HBOI INITIATION THROUGH END OF FILM RUN
F/T: F
EXP.: AEC
TIMING: YES, TIME STAMP WITH IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS:

1) HIGH-SPEED CAMERA COVERAGE IS REQUIRED OF THE ORBITER TILED SURFACES TO SHOW HRSI ON BODY FLAP AND SURROUNDING AREA, ET TIP DEFLECTION AND ORBITER TPS SURFACES AS THE VEHICLE PASSES THROUGH THE FOV. VIEW TO DETERMINE TPS INTEGRITY DURING THE LAUNCH.

2) COMBINATION OF CAMERAS E005, E034, E036, AND E040 MUST PROVIDE COVERAGE OF:
2.1) ORBITER BASE HEAT SHEILD
2.2) UNDERSIDE OF BODY FLAP AND WING/ELEVON AREA
2.3) FORWARD 50% OF ORBITER BELLY.

3) A COMBINATION OF CAMERAS E040, E065, E066, MUST PROVIDE 360 DEGREE COVERAGE TOP 1/4 OF ET DURING ENGINE START FOR TIP DEFLECTION MEASUREMENTS.

CONTINUED

[PRD] DATABASE RECORD: 575989
ITEM NUMBER: HKT28K

4) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

5) PROVIDE A LOCATION SURVEY OF FSS CAMERAS IN MLP X, Y, Z COORDINATES, CAMERA HEIGHT AND ELEVATION ANGLE (DEGREES) FROM MLP 0.0" LEVEL AT MLP ZERO DECK (POINT X). ORIGIN OF SURVEY IS FROM MLP ZERO DECK POINT X. POINT X IS DEFINED AS CENTER OF MLP IN Y DIRECTION, CENTER OF FSS IN Z DIRECTION AND MLP 0.0" LEVEL IN X DIRECTION. POINT X IS ALSO KNOWN AS THE CENTER LINE OF THE ET (MLP X=0, Y=0, Z=0). FSS CAMERA COORDINATES ARE MEASURED FROM MLP POINT X USING AN ELECTRONIC THEODOLITE INSTRUMENT (SURVEY GRADE). PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

6) MAKE A MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS
REF: DBR 541334 PHOTO OPTICAL CONTROL SYSTEMS (POCS)

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1.	EP	1	1 CD	MSFC/EV12/TOM RIECKHOFF/256 544-7677
2	EP	1	1 CD	JSC/KX/JON DISLER/281 483-5182

CONTINUED

[PRD] DATABASE RECORD: 575989
ITEM NUMBER: HKT28K

3	EP	1	1 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
4	EP	1	1 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	1 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/23/07
RESPONSE: PADD #E040

[PRD] DATABASE RECORD: 575990 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/23/07
INITIAL DATE: 04/09/04
ITEM NUMBER: HKT29K DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 12:11:27

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: E041 GC FSS

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. A0701-1 PAGE04 PAGE07 R0403-1 R0504-9
R0608-5
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LAUNCH SUPPORT, SAFETY REQUIREMENT.

1. DESCRIPTION: E041 - ET GUCP/GH2 VENT LINE/GH2 VENT ARM ROTATION

LOCATION: FSS (255 FT)
FIELD OF VIEW: GH2 VENT LINE DURING ROTATION AS SPECIFIED IN REMARKS
FIELD
CAMERA FORMAT: 16MM
F/L: AS REQUIRED TO MEET FOV REQUIREMENTS (NOMINALLY 10MM)
FPS: 400

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 575990
ITEM NUMBER: HKT29K

FILM TYPE LOAD: 200 FT
INTERVAL: HBOI INITIATION THROUGH END OF FILM RUN
F/T: F
EXP.: AEC
TIMING: YES, TIME STAMP WITH IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS:

1) HIGH-SPEED CAMERA COVERAGE OF GH2 VENT LINE DURING ROTATION.

2) COMBINATION OF CAMERAS E033, E039, E041, AND E042 MUST PROVIDE VIEWS OF THE ENTIRE GH2 VENT LINE FROM SSME IGNITION THROUGH LATCH BACK:
   2.1) CLOSE-UP IMAGE OF THE GUCP, LINES TO THE CARRIER PLATE, AND INTERTANK FOAM SURROUNDING THE GUCP INTERFACE. FOV SHALL BE WIDE ENOUGH TO IMAGE THE GUCP DURING VEHICLE PRE-LAUNCH "TWANG".
   2.2) COVERAGE, FROM A NORTHEAST PERIMETER SITE, FOR THE ET GUCP/GH2 VENT LINE PRIOR TO SSME IGNITION THROUGH VEHICLE TOWER CLEAR TO VIEW FOR ICING, DISCONNECT ANOMALIES, AND GUCP/GH2 VENT LINE / VEHICLE CLEARANCE DURING DISCONNECT, ROTATION, AND LINE DECELERATION.
   2.3) CLEARANCE BETWEEN THE VENT LINE STRUCTURE AND THE LAUNCH VEHICLE DURING GH2 VENT LINE ROTATION AND VEHICLE LIFTOFF.
   2.4) GH2 VENT LINE LATCH BACK INSIDE THE ET INTERTANK ACCESS STRUCTURE WITH A FOV WIDE ENOUGH TO CAPTURE ANY POSSIBLE REBOUND.

3) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007

CONTINUED

[PRD] DATABASE RECORD: 575990
ITEM NUMBER: HKT29K

CHANGES IN STATUS TO BE REPORTED TO THE NTD.

4) PROVIDE A LOCATION SURVEY OF FSS CAMERAS IN MLP X, Y, Z COORDINATES, CAMERA HEIGHT AND ELEVATION ANGLE (DEGREES) FROM MLP 0.0" LEVEL AT MLP ZERO DECK (POINT X). ORIGIN OF SURVEY IS FROM MLP ZERO DECK POINT X. POINT X IS DEFINED AS CENTER OF MLP IN Y DIRECTION, CENTER OF FSS IN Z DIRECTION AND MLP 0.0" LEVEL IN X DIRECTION. POINT X IS ALSO KNOWN AS THE CENTER LINE OF THE ET (MLP X=0, Y=0, Z=0). FSS CAMERA COORDINATES ARE MEASURED FROM MLP POINT X USING AN ELECTRONIC THEODOLITE INSTRUMENT (SURVEY GRADE). PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

5) MAKE A MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS
REF: DBR 541334 PHOTO OPTICAL CONTROL SYSTEMS (POCS)

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1.	EP	1	2 CD	MSFC/EV12/TOM RIECKHOFF/256 544-7677
2	EP	1	2 CD	JSC/KX/JON DISLER/281 483-5182
3	EP	1	2 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
4	EP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 575990
ITEM NUMBER: HKT29K

(ON REQUEST ONLY FOR SCANNING PURPOSES)

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/23/07
RESPONSE: PADD #E041

[PRD] DATABASE RECORD: 575995 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/12/07
INITIAL DATE: 04/09/04
ITEM NUMBER: KT30K DATE LAST CHANGED: 07/13/07
SECTION: 3120 TIME LAST CHANGED: 07:19:11

REQUESTER: KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7
TEST CODE: E042 GC FSS

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. A0701-1 PAGE04 PAGE07 R0403-1 R0504-9
R0608-5 R0707-3
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LAUNCH SUPPORT, SAFETY REQUIREMENT.

1. DESCRIPTION: E042 - ET GUCP/GH2 VENT LINE/HAUNCH/GH2 VENT ARM ROTATION AND FINAL LATCH BACK ON FSS ET INTERTANK ACCESS STRUCTURE

LOCATION: FSS (185 FT)
FIELD OF VIEW: GH2 VENT LINE STRUCTURE DURING FINAL PORTION THROUGH LATCHBACK AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: 16MM
F/L: AS REQUIRED TO MEET FOV REQUIREMENTS (NOMINALLY 16MM)
FPS: 400
FILM TYPE LOAD: 200 FT
INTERVAL: HBOI INITIATION THROUGH END OF FILM RUN

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 575995
ITEM NUMBER: KT30K

F/T: F
EXP.: AEC
TIMING: YES, TIME STAMP WITH IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS:

1) HIGH-SPEED CAMERA COVERAGE FROM THE 185' LEVEL OF FSS IS REQUIRED TO IMAGE THE GH2 VENT LINE STRUCTURE FROM THE ET GUCP DISCONNECT TO FINAL PORTION OF DROP, DECELERATION PHASE, AND LATCH BACK INSIDE THE FSS ET INTERTANK ACCESS STRUCTURE TO VIEW FOR POSSIBLE ANOMALIES WITH A FOV WIDE ENOUGH TO CAPTURE ANY POSSIBLE REBOUND OR DEBRIS GENERATION.

2) COMBINATION E033, E039, E041, AND E042 MUST PROVIDE VIEWS OF THE ENTIRE GH2 VENT LINE FROM SSME IGNITION THROUGH LATCH BACK:
   2.1) CLOSE-UP IMAGE OF THE GUCP, LINES TO THE CARRIER PLATE, AND INTERTANK FOAM SURROUNDING THE GUCP INTERFACE. FOV SHALL BE WIDE ENOUGH TO IMAGE THE GUCP DURING VEHICLE PRE-LAUNCH "TWANG".
   2.2) COVERAGE, FROM A NORTHEAST PERIMETER SITE, FOR THE ET GUCP/GH2 VENT LINE PRIOR TO SSME IGNITION THROUGH VEHICLE TOWER CLEAR TO VIEW FOR ICING, DISCONNECT ANOMALIES, AND GUCP/GH2 VENT LINE / VEHICLE CLEARANCE DURING DISCONNECT, ROTATION, AND LINE DECELERATION.
   2.3) CLEARANCE BETWEEN THE VENT LINE STRUCTURE AND THE LAUNCH VEHICLE DURING GH2 VENT LINE ROTATION AND VEHICLE LIFTOFF.
   2.4) GH2 VENT LINE LATCH BACK INSIDE THE ET INTERTANK ACCESS STRUCTURE WITH A FOV WIDE ENOUGH TO CAPTURE ANY POSSIBLE REBOUND.

3) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY

CONTINUED

[PRD] DATABASE RECORD: 575995
ITEM NUMBER: KT30K

NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

4) PROVIDE A LOCATION SURVEY OF FSS CAMERAS IN MLP X, Y, Z COORDINATES, CAMERA HEIGHT AND ELEVATION ANGLE (DEGREES) FROM MLP 0.0" LEVEL AT MLP ZERO DECK (POINT X). ORIGIN OF SURVEY IS FROM MLP ZERO DECK POINT X. POINT X IS DEFINED AS CENTER OF MLP IN Y DIRECTION, CENTER OF FSS IN Z DIRECTION AND MLP 0.0" LEVEL IN X DIRECTION. POINT X IS ALSO KNOWN AS THE CENTER LINE OF THE ET (MLP X=0, Y=0, Z=0). FSS CAMERA COORDINATES ARE MEASURED FROM MLP POINT X USING AN ELECTRONIC THEODOLITE INSTRUMENT (SURVEY GRADE). PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

5) MAKE A MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC, & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS
REF: DBR 541334 PHOTO OPTICAL CONTROL SYSTEMS (POCS)

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	2 CD	MSFC/EV12/TOM RIECKHOFF/256 544-7677
2	EP	1	2 CD	JSC/KX/JON DISLER/281 483-5182
3	EP	1	2 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 575995
ITEM NUMBER: KT30K

4	EP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
SUBSUPPLIER: KICS-700
RESPONDER: CHUCK BROWN/321 867-2090

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/12/07

[PRD] DATABASE RECORD: 575996 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/12/07
INITIAL DATE: 04/09/04
ITEM NUMBER: HKT31K DATE LAST CHANGED: 03/12/07
SECTION: 3120 TIME LAST CHANGED: 08:26:12

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: E052 GC RANGE

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. A0701-1 PAGE04 PAGE07 R0403-1 R0504-9
R0608-5 R0703-3
PRIORITY: MANDATORY
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE

1. DESCRIPTION: E052 - CLOSE-IN TRACKING COVERAGE

LOCATION: PAD PERIMETER (39-2)
FIELD OF VIEW: AFT PORTION OF SSV (INCLUDING MLP DECK PRIOR TO LIFT OFF) AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: 35MM
F/L: AS REQUIRED TO MEET FOV REQUIREMENTS (NOMINALLY 200MM)
FPS: 80-180 FPS (MAXIMUM AS ALLOWED BY LIGHTING CONDITIONS)
FILM TYPE LOAD: 400 FT
INTERVAL: T-10 SECONDS (OR HBOI INITIATION) THROUGH END OF FILM

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 575996
ITEM NUMBER: HKT31K

	RUN
F/T:	T
EXP.:	AEC
TIMING:	YES, TIME STAMP WITH IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS:

1) HIGH-SPEED CAMERA COVERAGE IS REQUIRED FROM PAD PERIMETER CAMERA SITE 2 OF AFT PORTION OF LAUNCH VEHICLE FROM IGNITION TO 1200 FT TO RECORD VEHICLE MOTION, STRUCTURAL INTEGRITY, ENGINE OPERATION, AND POSSIBLE DEBRIS DURING EARLY FLIGHT. INITIAL VIEW SHALL INCLUDE MLP DECK.

2) A COMBINATION OF CAMERAS E052, E053, E054, E055, E057, E059, EHV052, EHV053, AND EHV057 MUST PROVIDE 360 DEGREE COVERAGE OF THE SSV FROM CAMERA LOCATIONS 39-1, 39-2, AND 39-6 DURING THE FIRST 1200 FEET ASCENT.

3) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

4) KICS TO PROVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

5) MAKE A MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE

CONTINUED

[PRD] DATABASE RECORD: 575996
ITEM NUMBER: HKT31K

APPROVED BY THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 10634 TRACKING CAMERA AZIMUTH AND ELEVATION
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS
REF: DBR 541334 PHOTO OPTICAL CONTROL SYSTEM (POCS)

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	1 CD	MSFC/EV12/TOM RIECKHOFF/256 544-7677
2	EP	1	1 CD	JSC/KX/JON DISLER/281 483-5182
3	EP	1	1 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
4	EP	1	1 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	1 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/12/07
RESPONSE: PADD # E052

[PRD] DATABASE RECORD: 575997 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/12/07
INITIAL DATE: 04/09/04
ITEM NUMBER: HKT32K DATE LAST CHANGED: 03/16/07
SECTION: 3120 TIME LAST CHANGED: 11:38:30

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 575997
ITEM NUMBER: HKT32K

REQUESTER:	MSFC	KSC		JSC	
SUBREQUESTER:	JSC/HS4-40	JSC/KX	JSC/MS2	KSC/MK-SIO	
	KSC/NE-M7	MSFC/EV12	MSFC/MP71		
TEST CODE:	E053	GC RANGE			
ASSOCIATED DOC:	20007S	20014S			
TRACKING NO.	A0701-1	PAGE04	PAGE07	R0403-1	R0504-9
	R0608-5	R0703-3			
PRIORITY:	MANDATORY				
RATIONALE:	ENGINEERING PHOTOGRAPHIC COVERAGE				

1. DESCRIPTION: E053 - CLOSE-IN TRACKING COVERAGE

LOCATION:	PAD PERIMETER (39-1)
FIELD OF VIEW:	AFT PORTION OF SSV (INCLUDING MLP DECK PRIOR TO LIFT OFF) AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT:	35MM
F/L:	AS REQUIRED TO MEET FOV REQUIREMENTS (NOMINALLY 200MM)
FPS:	80-180 FPS (MAXIMUM AS ALLOWED BY LIGHTING CONDITIONS)
FILM TYPE LOAD:	400 FT
INTERVAL:	T-10 SECONDS (OR HBOI INITIATION) THROUGH END OF FILM RUN
F/T:	T
EXP.:	AEC
TIMING:	YES, TIME STAMP WITH IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS:

1) HIGH-SPEED CAMERA COVERAGE IS REQUIRED FROM PAD PERIMETER CAMERA SITE 1 OF AFT PORTION OF LAUNCH VEHICLE FROM IGNITION TO 1200 FT TO RECORD VEHICLE MOTION, STRUCTURAL INTEGRITY, ENGINE OPERATION, AND POSSIBLE DEBRIS DURING

CONTINUED

[PRD] DATABASE RECORD: 575997
ITEM NUMBER: HKT32K

EARLY FLIGHT. INITIAL VIEW SHALL INCLUDE MLP DECK.

2) A COMBINATION OF CAMERAS E052, E053, E054, E055, E057, E059, EHV052, EHV053, AND EHV057 MUST PROVIDE 360 DEGREE COVERAGE OF THE SSV FROM CAMERA LOCATIONS 39-1, 39-2, AND 39-6 DURING THE FIRST 1200 FEET ASCENT.

3) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

3) KICS TO PROVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

4) MAKE A MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 10634 TRACKING CAMERA AZIMUTH AND ELEVATION
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS
REF: DBR 541334 PHOTO OPTICAL CONTROL SYSTEM (POCS)

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	2 CD	MSFC/EV12/TOM RIECKHOFF/256 544-7677
2	EP	1	2 CD	JSC/KX/JON DISLER/281 483-5182
3	EP	1	2 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/

CONTINUED

[PRD] DATABASE RECORD: 575997
ITEM NUMBER: HKT32K

				281 226-5575 (ON REQUEST ONLY)
4	EP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/12/07
RESPONSE: PADD # E053

[PRD] DATABASE RECORD: 575998 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/12/07
INITIAL DATE: 04/09/04
ITEM NUMBER: HKT33K DATE LAST CHANGED: 03/12/07
SECTION: 3120 TIME LAST CHANGED: 08:28:17

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: E054 GC RANGE

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. A0701-1 PAGE04 PAGE07 R0403-1 R0504-9
R0608-5 R0703-3
PRIORITY: MANDATORY
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE

1. DESCRIPTION: E054 - CLOSE-IN TRACKING COVERAGE

LOCATION: PAD PERIMETER (39-2)
FIELD OF VIEW: FORWARD PORTION OF SSV AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: 35MM
F/L: AS REQUIRED TO MEET FOV REQUIREMENTS (NOMINALLY 200MM)
FPS: 80-180 FPS (MAXIMUM AS ALLOWED BY LIGHTING CONDITIONS)
FILM TYPE LOAD: 400 FT

CONTINUED

[PRD] DATABASE RECORD: 575998
ITEM NUMBER: HKT33K

INTERVAL: T-10 SECONDS (OR HBOI INITIATION) THROUGH END OF FILM RUN
F/T: T
EXP.: AEC
TIMING: YES, TIME STAMP WITH IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS:

1) HIGH-SPEED CAMERA COVERAGE IS REQUIRED FROM PAD PERIMETER CAMERA SITE 2 OF FORWARD PORTION OF LAUNCH VEHICLE FROM IGNITION TO 1200 FT TO RECORD VEHICLE MOTION, STRUCTURAL INTEGRITY, AND POSSIBLE DEBRIS DURING EARLY FLIGHT. VIEW SHALL OVERLAP E52.

2) A COMBINATION OF CAMERAS E052, E053, E054, E055, E057, E059, EHV052, EHV053, AND EHV057 MUST PROVIDE 360 DEGREE COVERAGE OF THE SSV FROM CAMERA LOCATIONS 39-1, 39-2, AND 39-6 DURING THE FIRST 1200 FEET ASCENT.

3) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

4) KICS TO PROVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

5) MAKE A MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY

CONTINUED

[PRD] DATABASE RECORD: 575998
ITEM NUMBER: HKT33K

FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 10634 TRACKING CAMERA AZIMUTH AND ELEVATION
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS
REF: DBR 541334 PHOTO OPTICAL CONTROL SYSTEM (POCS)

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	1 CD	MSFC/EV12/TOM RIECKHOFF/256 544-7677
2	EP	1	1 CD	JSC/KX/JON DISLER/281 483-5182
3	EP	1	1 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
4	EP	1	1 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/12/07
RESPONSE: PADD #E054

[PRD] DATABASE RECORD: 575999 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/12/07
INITIAL DATE: 04/09/04
ITEM NUMBER: HKT34K DATE LAST CHANGED: 03/12/07

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 575999
ITEM NUMBER: HKT34K

SECTION: 3120 TIME LAST CHANGED: 08:29:11

REQUESTER:	MSFC	KSC	JSC	
SUBREQUESTER:	JSC/HS4-40	JSC/KX	JSC/MS2	KSC/MK-SIO
	KSC/NE-M7	MSFC/EV12	MSFC/MP71	
TEST CODE:	E055	GC RANGE		
ASSOCIATED DOC:	20007S	20014S		
TRACKING NO.	A0701-1	PAGE04	PAGE07	R0403-1
	R0504-9	R0608-5	R0703-3	
PRIORITY:	MANDATORY			
RATIONALE:	ENGINEERING PHOTOGRAPHIC COVERAGE			

1. DESCRIPTION: E055 - CLOSE-IN TRACKING COVERAGE

LOCATION:	PAD PERIMETER (39-1)
FIELD OF VIEW:	FORWARD PORTION OF SSV AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT:	35MM
F/L:	AS REQUIRED TO MEET FOV REQUIREMENTS (NOMINALLY 200MM)
FPS:	80-180 FPS (MAXIMUM AS ALLOWED BY LIGHTING CONDITIONS)
FILM TYPE LOAD:	400 FT
INTERVAL:	T-10 SECONDS (OR HBOI INITIATION) THROUGH END OF FILM RUN
F/T:	T
EXP.:	AEC
TIMING:	YES, TIME STAMP WITH IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS:

1) HIGH-SPEED CAMERA COVERAGE IS REQUIRED FROM PAD PERIMETER CAMERA SITE 1 OF FORWARD PORTION OF LAUNCH VEHICLE FROM IGNITION TO 1200 FT TO RECORD VEHICLE MOTION, STRUCTURAL INTEGRITY, AND POSSIBLE DEBRIS DURING EARLY FLIGHT.

CONTINUED

[PRD] DATABASE RECORD: 575999
ITEM NUMBER: HKT34K

VIEW SHALL OVERLAP E053.

2) A COMBINATION OF CAMERAS E052, E053, E054, E055, E057, E059, EHV052, EHV053, AND EHV057 MUST PROVIDE 360 DEGREE COVERAGE OF THE SSV FROM CAMERA LOCATIONS 39-1, 39-2, AND 39-6 DURING THE FIRST 1200 FEET ASCENT.

3) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

4) KICS TO PROVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

5) MAKE A MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 10634 TRACKING CAMERA AZIMUTH AND ELEVATION
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS
REF: DBR 541334 PHOTO OPTICAL CONTROL SYSTEM (POCS)

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	2 CD	MSFC/EV12/TOM RIECKHOFF/256 544-7677
2	EP	1	2 CD	JSC/KX/JON DISLER/281 483-5182
3	EP	1	2 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/

CONTINUED

[PRD] DATABASE RECORD: 575999
ITEM NUMBER: HKT34K

				281 226-5575 (ON REQUEST ONLY)
4	EP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/12/07
RESPONSE: PADD # E055

[PRD] DATABASE RECORD: 576000 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/12/07
INITIAL DATE: 04/09/04
ITEM NUMBER: HKT35K DATE LAST CHANGED: 03/12/07
SECTION: 3120 TIME LAST CHANGED: 08:30:08

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: E057 GC RANGE

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. A0701-1 PAGE04 PAGE07 R0403-1 R0504-9
R0608-5 R0703-3
PRIORITY: MANDATORY
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE

1. DESCRIPTION: E057 - CLOSE-IN TRACKING COVERAGE

LOCATION: PAD PERIMETER (39-6)
FIELD OF VIEW: AFT PORTION OF SSV (INCLUDING MLP DECK PRIOR TO LIFT OFF) AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: 35MM
F/L: AS REQUIRED TO MEET FOV REQUIREMENTS (NOMINALLY 200MM)
FPS: 80-180 FPS (MAXIMUM AS ALLOWED BY LIGHTING CONDITIONS)
FILM TYPE LOAD: 400 FT

CONTINUED

[PRD] DATABASE RECORD: 576000
ITEM NUMBER: HKT35K

INTERVAL: T-10 SECONDS (OR HBOI INITIATION) THROUGH END OF FILM RUN
F/T: T
EXP.: AEC
TIMING: YES, TIME STAMP WITH IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS:

1) HIGH-SPEED CAMERA COVERAGE IS REQUIRED FROM PAD PERIMETER CAMERA SITE 6 OF AFT PORTION OF LAUNCH VEHICLE FROM IGNITION TO 1200 FT TO RECORD VEHICLE MOTION, STRUCTURAL INTEGRITY, ENGINE OPERATION, AND POSSIBLE DEBRIS DURING EARLY FLIGHT. INITIAL VIEW SHALL INCLUDE MLP DECK.

2) A COMBINATION OF CAMERAS E052, E053, E054, E055, E057, E059, EHV052, EHV053, AND EHV057 MUST PROVIDE 360 DEGREE COVERAGE OF THE SSV FROM CAMERA LOCATIONS 39-1, 39-2, AND 39-6 DURING THE FIRST 1200 FEET ASCENT.

3) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

4) KICS TO PROVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

5) MAKE A MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 576000
ITEM NUMBER: HKT35K

FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 10634 TRACKING CAMERA AZIMUTH AND ELEVATION
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS
REF: DBR 541334 PHOTO OPTICAL CONTROL SYSTEM (POCS)

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	2 CD	MSFC/EV12/TOM RIECKHOFF/256 544-7677
2	EP	1	2 CD	JSC/KX/JON DISLER/281 483-5182
3	EP	1	2 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
4	EP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/12/07
RESPONSE: PADD # E057

[PRD] DATABASE RECORD: 576006 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/12/07
INITIAL DATE: 04/09/04
ITEM NUMBER: HKT36K DATE LAST CHANGED: 03/12/07
SECTION: 3120 TIME LAST CHANGED: 08:31:49

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 576006
ITEM NUMBER: HKT36K

REQUESTER:	MSFC	KSC	JSC		
SUBREQUESTER:	JSC/HS4-40	JSC/KX	JSC/MS2	KSC/MK-SIO	
	KSC/NE-M7	MSFC/EV12	MSFC/MP71		
TEST CODE:	E059	GC RANGE			
ASSOCIATED DOC:	20007S	20014S			
TRACKING NO.	A0701-1	PAGE04	PAGE07	R0403-1	R0504-9
	R0608-5	R0703-3			
PRIORITY:	MANDATORY				
RATIONALE:	ENGINEERING PHOTOGRAPHIC COVERAGE				

1. DESCRIPTION: E059 - CLOSE-IN TRACKING COVERAGE

LOCATION:	PAD PERIMETER (39-6)
FIELD OF VIEW:	FORWARD PORTION OF SSV AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT:	35MM
F/L:	AS REQUIRED TO MEET FOV REQUIREMENTS (NOMINALLY 200MM)
FPS:	80-180 FPS (MAXIMUM AS ALLOWED BY LIGHTING CONDITIONS)
FILM TYPE LOAD:	400 FT
INTERVAL:	T-10 SECONDS (OR HBOI INITIATION) THROUGH END OF FILM RUN
F/T:	T
EXP.:	AEC
TIMING:	YES, TIME STAMP WITH IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS:

1) HIGH-SPEED CAMERA COVERAGE IS REQUIRED FROM PAD PERIMETER CAMERA SITE 6 OF FORWARD PORTION OF LAUNCH VEHICLE FROM IGNITION TO 1200 FT TO RECORD VEHICLE MOTION, STRUCTURAL INTEGRITY, AND POSSIBLE DEBRIS DURING EARLY FLIGHT. VIEW SHALL OVERLAP E57.

CONTINUED

[PRD] DATABASE RECORD: 576006
ITEM NUMBER: HKT36K

2) A COMBINATION OF CAMERAS E052, E053, E054, E055, E057, E059, EHV052, EHV053, AND EHV057 MUST PROVIDE 360 DEGREE COVERAGE OF THE SSV FROM CAMERA LOCATIONS 39-1, 39-2, AND 39-6 DURING THE FIRST 1200 FEET ASCENT.

3) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

4) KICS TO PROVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

5) MAKE A MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 10634 TRACKING CAMERA AZIMUTH AND ELEVATION
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS
REF: DBR 541334 PHOTO OPTICAL CONTROL SYSTEM (POCS)

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	2 CD	MSFC/EV12/TOM RIECKHOFF/256 544-7677
2	EP	1	2 CD	JSC/KX/JON DISLER/281 483-5182
3	EP	1	2 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 576006
ITEM NUMBER: HKT36K

4	EP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/12/07
RESPONSE: PADD # E059

[PRD] DATABASE RECORD: 576007 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/26/07
INITIAL DATE: 04/09/04
ITEM NUMBER: HKT37K DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 10:41:56

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: E060 GC RANGE

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. A0701-1 PAGE04 PAGE07 R0403-1 R0504-9
R0608-5
PRIORITY: MANDATORY
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE

1. DESCRIPTION: E060 - COVERAGE OF SSV, MLP AND FSS

LOCATION: PAD PERIMETER (39-1)
FIELD OF VIEW: OVERALL SSV, FSS AND MLP AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: 35MM
F/L: AS REQUIRED TO MEET FOV REQUIREMENTS (NOMINALLY 105MM)
FPS: 100-180 FPS (MAXIMUM ALLOWED BY LIGHTING CONDITIONS)
FILM TYPE LOAD: 400 FT
INTERVAL: HBOI INITIATION THROUGH END OF FILM RUN

CONTINUED

[PRD] DATABASE RECORD: 576007
ITEM NUMBER: HKT37K

F/T: F
EXP.: AEC
TIMING: YES, TIME STAMP WITH IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS:

1) HIGH-SPEED CAMERA COVERAGE FROM PAD PERIMETER CAMERA SITE 1 (39-1) IS REQUIRED OF THE ENTIRE LAUNCH VEHICLE, FSS, AND MLP DURING IGNITION AND LIFTOFF. VIEW FOR STRUCTURAL SURVEILLANCE AND STARTING SEQUENCE. SECONDARY INFORMATION SHALL INCLUDE THE OVERALL EFFECT OF THE STARTING SEQUENCE, INCLUDING UMBILICAL DISCONNECTION(S) AND EXHAUST FLOW.

2) COMBINATION OF CAMERAS E060, E062, AND E063 MUST PROVIDE COVERAGE OF THE ENTIRE SSV, MLP AND FSS FROM CAMERA SITES 39-1, 39-3, AND 39-4 FOR STUDYING VEHICLE AND EXTERNAL TANK MOTION AND STRUCTURAL SURVEILLANCE DURING ENGINE START AND LIFT-OFF.

3) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

4) KICS TO PROVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

5) MAKE A MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP

CONTINUED

[PRD] DATABASE RECORD: 576007
ITEM NUMBER: HKT37K

AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS
REF: DBR 10043 THE EMERGENCY CAMERA CONTROL SYSTEM (ECCS)
REF: DBR 541334 PHOTO OPTICAL CONTROL SYSTEMS (POCS)

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	2 CD	MSFC/EV12/TOM RIECKHOFF/256 544-7677
2	EP	1	2 CD	JSC/KX/JON DISLER/281 483-5182
3	EP	1	2 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
4	EP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/26/07
RESPONSE: PADD # E060

[PRD] DATABASE RECORD: 576008 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/26/07
INITIAL DATE: 04/09/04
ITEM NUMBER: HKT38K DATE LAST CHANGED: 03/06/07

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 576008
ITEM NUMBER: HKT38K

SECTION: 3120 TIME LAST CHANGED: 10:42:13

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: E062 GC RANGE

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. A0701-1 PAGE04 PAGE07 R0403-1 R0504-9
R0608-5
PRIORITY: MANDATORY
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE

1. DESCRIPTION: E062 - COVERAGE OF SSV, MLP AND FSS

LOCATION: PAD PERIMETER (39-3)
FIELD OF VIEW: OVERALL SSV, FSS AND MLP AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: 35MM
F/L: AS REQUIRED TO MEET FOV REQUIREMENTS (NOMINALLY 105MM)
FPS: 100-180 FPS (MAXIMUM ALLOWED BY LIGHTING CONDITIONS)
FILM TYPE LOAD: 400 FT
INTERVAL: HBOI INITIATION THROUGH END OF FILM RUN
F/T: F
EXP.: AEC
TIMING: YES, TIME STAMP WITH IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS:

1) HIGH-SPEED CAMERA COVERAGE FROM PAD PERIMETER CAMERA SITE 3 (39-3) IS REQUIRED OF THE ENTIRE LAUNCH VEHICLE, FSS, AND MLP DURING IGNITION AND LIFTOFF. VIEW FOR STRUCTURAL SURVEILLANCE AND STARTING SEQUENCE. SECONDARY INFORMATION SHALL INCLUDE THE OVERALL EFFECT OF THE STARTING

CONTINUED

[PRD] DATABASE RECORD: 576008
ITEM NUMBER: HKT38K

SEQUENCE, INCLUDING UMBILICAL DISCONNECTION(S) AND EXHAUST FLOW.

2) A COMBINATION OF CAMERAS E060, E062, AND E063 MUST PROVIDE COVERAGE OF THE ENTIRE SSV, MLP AND FSS FROM CAMERA SITES 39-1, 39-3, AND 39-4 FOR STUDYING VEHICLE AND EXTERNAL TANK MOTION AND STRUCTURAL SURVEILLANCE DURING ENGINE START AND LIFT-OFF.

4) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

5) KICS TO PROVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

6) MAKE A MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS
REF: DBR 10043 THE EMERGENCY CAMERA CONTROL SYSTEM (ECCS)
REF: DBR 541334 PHOTO OPTICAL CONTROL SYSTEMS (POCS)

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	2 CD	MSFC/EV12/TOM RIECKHOFF/256 544-7677

CONTINUED

[PRD] DATABASE RECORD: 576008
ITEM NUMBER: HKT38K

2	EP	1	2 CD	JSC/KX/JON DISLER/281 483-5182
3	EP	1	2 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
4	EP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/26/07
RESPONSE: PADD # E062

[PRD] DATABASE RECORD: 576009 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/27/07
INITIAL DATE: 04/09/04
ITEM NUMBER: HKT39K DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 10:42:32

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: E063 GC RANGE

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. A0701-1 PAGE04 PAGE07 R0403-1 R0504-9
R0608-5
PRIORITY: MANDATORY
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE

1. DESCRIPTION: E063 - COVERAGE OF SSV, MLP AND FSS

LOCATION: PAD PERIMETER (39-4)
FIELD OF VIEW: OVERALL SSV, FSS AND MLP AS SPECIFIED IN REMARKS FIELD

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 576009
ITEM NUMBER: HKT39K

CAMERA FORMAT:	35MM
F/L:	AS REQUIRED TO MEET FOV REQUIREMENTS (NOMINALLY 105MM)
FPS:	100-180 FPS (MAXIMUM ALLOWED BY LIGHTING CONDITIONS)
FILM TYPE LOAD:	400 FT
INTERVAL:	HBOI INITIATION THROUGH END OF FILM RUN
F/T:	F
EXP.:	AEC
TIMING:	YES, TIME STAMP WITH IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS:

1) HIGH-SPEED CAMERA COVERAGE FROM PAD PERIMETER CAMERA SITE 4 (39-4) IS REQUIRED OF THE ENTIRE LAUNCH VEHICLE, FSS, AND MLP DURING IGNITION AND LIFTOFF. VIEW FOR STRUCTURAL SURVEILLANCE AND STARTING SEQUENCE. SECONDARY INFORMATION SHALL INCLUDE THE OVERALL EFFECT OF THE STARTING SEQUENCE, INCLUDING UMBILICAL DISCONNECTION(S) AND EXHAUST FLOW.

2) A COMBINATION OF CAMERAS E060, E062, AND E063 MUST PROVIDE COVERAGE OF THE ENTIRE SSV, MLP AND FSS FROM CAMERA SITES 39-1, 39-3, AND 39-4 FOR STUDYING VEHICLE AND EXTERNAL MOTION AND STRUCTURAL SURVEILLANCE DURING ENGINE START AND LIFT-OFF.

3) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

4) KICS TO PROVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

CONTINUED

[PRD] DATABASE RECORD: 576009
ITEM NUMBER: HKT39K

5) MAKE A MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS
REF: DBR 10043 THE EMERGENCY CAMERA CONTROL SYSTEM (ECCS)
REF: DBR 541334 PHOTO OPTICAL CONTROL SYSTEMS (POCS)

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	1 CD	MSFC/EV12/TOM RIECKHOFF/256 544-7677
2	EP	1	1 CD	JSC/KX/JON DISLER/281 483-5182
3	EP	1	1 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
4	EP	1	1 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	1 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/27/07

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 576009
ITEM NUMBER: HKT39K

RESPONSE: PADD # E063

[PRD] DATABASE RECORD: 576010 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/12/07
INITIAL DATE: 04/09/04
ITEM NUMBER: HKT40K DATE LAST CHANGED: 03/12/07
SECTION: 3120 TIME LAST CHANGED: 08:33:12

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: E076 GC RANGE

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. A0701-1 PAGE04 PAGE07 R0403-1 R0504-9
R0608-5 R0703-3
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LAUNCH SUPPORT, SAFETY REQUIREMENT.

1. DESCRIPTION: E076 - AFT ORBITER AND SSME WITH MLP

LOCATION: PAD PERIMETER (39-3)
FIELD OF VIEW: SSME/AFT ORBITER AREA AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: 35MM
F/L: 500MM
FPS: 80-180 FPS (MAXIMUM AS ALLOWED BY LIGHTING CONDITIONS)
FILM TYPE LOAD: 400 FT
INTERVAL: HBOI INITIATION THROUGH END OF FILM RUN
F/T: F
EXP.: FIXED
TIMING: YES, TIME STAMP WITH IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

CONTINUED

[PRD] DATABASE RECORD: 576010
ITEM NUMBER: HKT40K

REMARKS:

1) HIGH-SPEED CAMERA COVERAGE IS REQUIRED FROM PAD PERIMETER CAMERA SITE 3 (39-3) TO VIEW AFT ORBITER AND SSME, WITH MLP IN BOTTOM OF FRAME, FOR FREE HYDROGEN BURNOFF AND PROPULSION SYSTEM PERFORMANCE.

2) CAMERAS E076 AND E077 MUST PROVIDE COVERAGE OF THE AFT ORBITER AND SSME, WITH MLP IN BOTTOM OF THE FRAME, FROM CAMERA SITES 39-3 AND 39-4.

3) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IIT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

4) KICS TO PROVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

5) MAKE A MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS
REF: DBR 541334 PHOTO OPTICAL CONTROL SYSTEMS (POCS)

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 576010
ITEM NUMBER: HKT40K

1	EP	1	1 CD	MSFC/EV12/TOM RIECKHOFF/256 544-7677
2	EP	1	1 CD	JSC/KX/JON DISLER/281 483-5182
3	EP	1	1 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
4	EP	1	1 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	1 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/12/07
RESPONSE: PADD # E076

[PRD] DATABASE RECORD: 576011 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/12/07
INITIAL DATE: 04/09/04
ITEM NUMBER: HKT41K DATE LAST CHANGED: 03/12/07
SECTION: 3120 TIME LAST CHANGED: 08:34:20

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: E077 GC RANGE

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. A0701-1 PAGE04 PAGE07 R0403-1 R0504-9
R0608-5 R0703-3
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LAUNCH SUPPORT, SAFETY REQUIREMENT.

1. DESCRIPTION: E077 - AFT ORBITER AND SSME WITH MLP

LOCATION: PAD PERIMETER (39-4)

CONTINUED

[PRD] DATABASE RECORD: 576011
ITEM NUMBER: HKT41K

FIELD OF VIEW: SSME/AFT ORBITER AREA AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: 35MM
F/L: 500MM
FPS: 80-180 FPS (MAXIMUM AS ALLOWED BY LIGHTING CONDITIONS)
FILM TYPE LOAD: 400 FT
INTERVAL: HBOI INITIATION THROUGH END OF FILM RUN
F/T: F
EXP.: FIXED
TIMING: YES, TIME STAMP WITH IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS:

1) HIGH-SPEED CAMERA COVERAGE IS REQUIRED FROM PAD PERIMETER CAMERA SITE 4 (39-4) TO VIEW AFT ORBITER AND SSME, WITH MLP IN BOTTOM OF FRAME, FOR FREE HYDROGEN BURNOFF AND PROPULSION SYSTEM PERFORMANCE.

2) CAMERAS E076 AND E077 MUST PROVIDE COVERAGE OF THE AFT ORBITER AND SSME, WITH MLP IN BOTTOM OF THE FRAME, FROM CAMERA SITES 39-3 AND 39-4.

3) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

4) PROVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

5) MAKE A MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP

CONTINUED

[PRD] DATABASE RECORD: 576011
ITEM NUMBER: HKT41K

UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS
REF: DBR 541334 PHOTO OPTICAL CONTROL SYSTEMS (POCS)

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	1 CD	MSFC/EV12/TOM RIECKHOFF/256 544-7677
2	EP	1	1 CD	JSC/KX/JON DISLER/281 483-5182
3	EP	1	1 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
4	EP	1	1 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	1 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/12/07
RESPONSE: PADD # E077

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 576012 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/12/07
INITIAL DATE: 04/09/04
ITEM NUMBER: HKT42K DATE LAST CHANGED: 07/12/07
SECTION: 3120 TIME LAST CHANGED: 07:27:15

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: E201 GC RANGE

ASSOCIATED DOC: 20007S
TRACKING NO. A0701-1 PAGE04 PAGE07 R0403-1 R0504-9
R0608-5 R0705-1 R0707-3
PRIORITY: MANDATORY
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE

1. DESCRIPTION: E201 - 70MM BIG SKY IMAGE FOR ANOMALY ANALYSIS
FROM REMOTE TRACKERS

LOCATION: APOLLO BEACH
FIELD OF VIEW: OVERALL SSV AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: 70MM
F/L: AS REQUIRED TO MEET FOV REQUIREMENT (NOMINALLY 100")
FPS: 24
FILM TYPE LOAD: 500 FT
INTERVAL: T-0 SECONDS (IF PAD IS IN LINE OF VIEW) OR AOV TO
END OF FILM
F/T: T
EXP.: FIXED
TIMING: YES

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS:

1) GROUND BASED LARGE FORMAT CAMERA, LOCATED AT APOLLO BEACH,
IS REQUIRED TO TRACK THE OVERALL LAUNCH VEHICLE FROM

CONTINUED

[PRD] DATABASE RECORD: 576012
ITEM NUMBER: HKT42K

IGNITION AND EARLY FLIGHT THROUGH LOV TO PROVIDE WIDE SKY OBSERVATION FOR DEBRIS TRACKING.

2) COMBINATION OF CAMERA E201, E202 AND E203 MUST PROVIDE LARGE FORMAT CAMERA COVERAGE OF THE SSV FROM IGNITION THROUGH LOV.

3) THIS PRODUCT WILL NORMALLY BE DEVELOPED ONLY. 70MM TRACKER DATA PRODUCTS WILL BE PRINTED ON REQUEST ONLY.

4) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

5) PROVIDE PORT-O-LETS AND POTABLE WATER AT CAMERA SITE. REFERENCE PRD DBR 17054.

6) PROVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 10634 TRACKING CAMERA AZIMUTH AND ELEVATION
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS

DATA DISPOSTION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	10 CD	KSC/NE-M7/TOM FORD/321 861-3635 (UPON REQUEST ONLY)

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
SUBSUPPLIER: KICS-700
RESPONDER: CHUCK BROWN/321 867-2090

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 576012
ITEM NUMBER: HKT42K

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/12/07

[PRD] DATABASE RECORD: 576013 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/12/07
INITIAL DATE: 04/09/04
ITEM NUMBER: HKT43K DATE LAST CHANGED: 07/12/07
SECTION: 3120 TIME LAST CHANGED: 07:28:29

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: E202 GC RANGE

ASSOCIATED DOC: 20007S
TRACKING NO. A0701-1 PAGE04 PAGE07 R0403-1 R0504-9
R0608-5 R0705-1 R0707-3
PRIORITY: MANDATORY
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE

1. DESCRIPTION: E202 - 70MM BIG SKY IMAGE FOR ANOMALY ANALYSIS
FROM REMOTE TRACKERS

LOCATION: D5R67
FIELD OF VIEW: OVERALL SSV AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: 70MM
F/L: AS REQUIRED TO MEET FOV REQUIREMENT (NOMINALLY 100")
FPS: 24
FILM TYPE LOAD: 500 FT
INTERVAL: T-0 SECONDS (IF PAD IS IN LINE OF VIEW) OR AOV TO
END OF FILM RUN
F/T: T
EXP.: FIXED
TIMING: YES

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 576013
ITEM NUMBER: HKT43K

JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS:

1) GROUND BASED LARGE FORMAT CAMERA, LOCATED AT D5R67, IS REQUIRED TO TRACK THE OVERALL LAUNCH VEHICLE FROM IGNITION AND EARLY FLIGHT THROUGH LOV TO PROVIDE WIDE SKY OBSERVATION FOR DEBRIS TRACKING.

2) COMBINATION OF CAMERAS E201, E202 AND E203 MUST PROVIDE LARGE FORMAT CAMERA COVERAGE OF THE SSV FROM IGNITION THROUGH LOV.

3) THIS PRODUCT WILL NORMALLY BE DEVELOPED ONLY. 70MM TRACKER DATA PRODUCTS WILL BE PRINTED ON REQUEST ONLY.

4) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

5) PROVIDE PORT-O-LETS AND POTABLE WATER AT CAMERA SITE. REFERENCE PRD DBR 17054.

6) PROVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 10634 TRACKING CAMERA AZIMUTH AND ELEVATION
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS

DATA DISPOSTION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 576013
ITEM NUMBER: HKT43K

1 EP 1 10 CD KSC/NE-M7/TOM FORD/321 861-3635
(UPON REQUEST ONLY)

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
SUBSUPPLIER: KICS-700
RESPONDER: CHUCK BROWN/321 867-2090

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/12/07

[PRD] DATABASE RECORD: 576017 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/27/07
INITIAL DATE: 04/09/04
ITEM NUMBER: HKT47EK DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 11:58:24

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: E207 GC RANGE

ASSOCIATED DOC: 20007S
TRACKING NO. A0701-1 PAGE07 R0403-1 R0503-2 R0504-9
R0608-5
PRIORITY: REQUIRED
RATIONALE: ENGINEERING PHOTO COVERAGE. REQUIRED FOR ER. REQUIRED FOR USER. IF IMAGERY DATA IS ACQUIRED, IT IS MANDATORY FOR THE KICS CONTRACTOR TO DISTRIBUTE THE DATA PER THE LISTED KICS DATA DISPOSITION.

1. DESCRIPTION: E207 - LONG RANGE PHOTO TRACKING COVERAGE OF LAUNCH FROM NORTH OF FLIGHT PATH

LOCATION: PLAYALINDA BEACH DOAMS
FIELD OF VIEW: REAR OF ORB AND BODY FLAP, THEN ORB/ET DURING & AFTER SRB SEPARATION AS SPECIFIED IN REMARKS FIELD.
CAMERA FORMAT: 35MM
F/L: 400"
FPS: 80-180 (MAXIMUM AS ALLOWED BY LIGHTING CONDITIONS)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

CONTINUED

[PRD] DATABASE RECORD: 576017
ITEM NUMBER: HKT47EK

FILM TYPE LOAD: 1000 FT
INTERVAL: TO END OF FILM
F/T: T
EXP.: FIXED
TIMING: YES, SYNCHRONIZE TO IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251
ER/CSR-4150/WILLIAM KLEINFELDER/321 853-6886

REMARKS:

1) GROUND BASED, LONG RANGE TRACKING INSTRUMENT/HIGH-SPEED CAMERA IS REQUIRED TO TRACK THE SSV FROM THE NORTH THROUGH POWERED FLIGHT UNTIL LOV FOR SRB STRUCTURAL INTEGRITY AND SSME/SRM OPERATION. PRIMARY FOV IS REAR OF ORB AND BODY FLAP, TRANSITIONING TO ENTIRE VEHICLE AS VIEW PERMITS. CONTINUE TO TRACK OF ORB/ET DURING AND AFTER SRB SEPARATION.

2) IN THE EVENT OF A CATASTROPHIC ACCIDENT FOR THIS CAMERA IS TO TRACK THE CREW CABIN.

3) THIS CAMERA IS ACTIVATED BY THE EASTERN RANGE.

4) E207/EHV207 (ER), E211/EHV211, E215.EHV215 (ER), AND E217/EHV217 SHALL PROVIDE A LEAST THREE USEFUL VIEWS OF VEHICLE UNTIL SRB SEPARATION. THREE USEFUL VIEWS IS DEFINED AS THREE VIEWS WITH NO TWO VIEWS FROM THE SAME TRACKER.

5) ER IMAGERY INSTRUMENTATION STATUS TO BE REPORTED (BY ER) AT LRR. AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

CONTINUED

[PRD] DATABASE RECORD: 576017
ITEM NUMBER: HKT47EK

6) KICS TO PROVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

7) MAKE A MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 10634 TRACKING CAMERA AZIMUTH AND ELEVATION
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS

KICS DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	1 CD	MSFC/EV12/TOM RIECKHOFF/256 544-7677
2	EP	1	1 CD	JSC/KX/JON DISLER/281 483-5182
3	EP	1	1 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
4	EP	1	1 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: CSR-3200
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/27/07

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 576017
ITEM NUMBER: HKT47EK

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/27/07
RESPONSE: PADD # E207

RESPONSE TRACKING: Z0412-2

[PRD] DATABASE RECORD: 576035 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/27/07
INITIAL DATE: 04/09/04
ITEM NUMBER: HKT48K DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 11:59:02

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: E208 GC RANGE

ASSOCIATED DOC: 20007S
TRACKING NO. A0701-1 PAGE04 PAGE07 R0403-1 R0412-3
R0503-2 R0608-5
PRIORITY: REQUIRED
RATIONALE: ENGINEERING PHOTO COVERAGE. E210 NOTU BERM, IS A FALLBACK FOR COCOA BEACH E208.

1. DESCRIPTION: E208 - LONG RANGE PHOTO TRACKING COVERAGE OF LAUNCH FROM SOUTH OF FLIGHT PATH

LOCATION: COCOA BEACH
FIELD OF VIEW: OVERALL SSV AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: 35MM
F/L: AS REQUIRED TO MEET FOV REQUIREMENT (NOMINALLY 400")
FPS: 80-180 (MAXIMUM AS ALLOWED BY LIGHTING CONDITIONS)
FILM TYPE LOAD: 1000 FT
INTERVAL: AOV TO LOV
F/T: T

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 576035
ITEM NUMBER: HKT48K

EXP.: FIXED
TIMING: YES, SYNCHRONIZE TO IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS:

1) GROUND BASED, LONG RANGE TRACKING INSTRUMENT/HIGH-SPEED CAMERA IS REQUIRED TO TRACK THE OVERALL SSV FROM THE SOUTH THROUGH POWERED FLIGHT UNTIL LOV FOR SRB STRUCTURAL INTEGRITY AND SSME/SRM OPERATION. CONTINUE TO TRACK OF ORB/ET DURING AND AFTER SRB SEPARATION.

2) IN EVENT OF A CATASTROPHIC ACCIDENT THIS CAMERA IS TO TRACK THE CREW CABIN.

3) E204/EHV204 (ER), E208/EHV208/E210/EHV210, E212/EHV212 (ER),E214/EHV214, E216/EHV216, SHALL PROVIDE AT LEAST THREE USEFUL VIEWS OF VEHICLE UNITL SRB SEPARATION. THREE USEFUL VIEWS IS DEFINED AS THREE VIEWS WITH NO TWO VIEWS FROM THE SAME TRACKER.

4) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

5) KICS TO PROVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

6) PROVIDE PORT-O-LETS AND POTABLE WATER AT CAMERA SITE. REFERENCE PRD DBR 17054.

7) E208 (COCOA BEACH) WILL BE USED FOR 28.45-DEGREE LAUNCHES.

CONTINUED

[PRD] DATABASE RECORD: 576035
ITEM NUMBER: HKT48K

E210 (NOTU BERM) WILL BE USED FOR 51.6-DEGREE LAUNCHES.

8) MAKE A MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

KICS DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	1 CD	MSFC/EV12/TOM RIECKHOFF/256 544-7677
2	EP	1	1 CD	JSC/KX/JON DISLER/281 483-5182
3	EP	1	1 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
4	EP	1	1 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/27/07
RESPONSE: PADD # E208

[PRD] DATABASE RECORD: 576036 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/01/07
INITIAL DATE: 04/09/04
ITEM NUMBER: HKT49K DATE LAST CHANGED: 03/06/07

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 576036
ITEM NUMBER: HKT49K

SECTION: 3120 TIME LAST CHANGED: 12:00:23

REQUESTER:	MSFC	KSC	JSC	
SUBREQUESTER:	JSC/HS4-40	JSC/KX	JSC/MS2	KSC/MK-SIO
	KSC/NE-M7	MSFC/EV12	MSFC/MP71	
TEST CODE:	E211	GC RANGE		

ASSOCIATED DOC: 20007S
TRACKING NO. A0701-1 PAGE04 PAGE07 R0403-1 R0504-9
R0608-5
PRIORITY: MANDATORY
RATIONALE: ENGINEERING PHOTO COVERAGE

1. DESCRIPTION: E211 - LONG RANGE PHOTO TRACKING COVERAGE OF LAUNCH FROM NORTH OF FLIGHT PATH

LOCATION: PONCE INLET
FIELD OF VIEW: OVERALL SSV AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: 35MM
F/L: AS REQUIRED TO MEET FOV REQUIREMENT (400")
FPS: 80-180 (MAXIMUM AS ALLOWED BY LIGHTING CONDITIONS)
FILM TYPE LOAD: 1000 FT
INTERVAL: T-0 SECONDS (IF PAD IS IN LINE OF VIEW) OR AOV TO END OF FILM
F/T: T
EXP.: FIXED
TIMING: YES, SYNCHRONIZE TO IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS:

1) GROUND BASED, LONG RANGE TRACKING INSTRUMENT/HIGH-SPEED CAMERA IS REQUIRED TO TRACK THE OVERALL SSV FROM THE NORTH THROUGH POWERED FLIGHT UNTIL END OF FILM FOR SRB

CONTINUED

[PRD] DATABASE RECORD: 576036
ITEM NUMBER: HKT49K

STRUCTURAL INTEGRITY AND SSME/SRM OPERATION. CONTINUE TRACK OF ORB/ET DURING AND AFTER SRB SEPARATION. DO NOT TRACK SEPARATED SRB'S.

2) E207/EHV207 (ER), E211/EHV211, E215/EHV215 (ER), AND E217/EHV217 SHALL PROVIDE AT LEAST THREE USEFUL VIEWS OF VEHICLE UNITL SRB SEPARATION. THREE USEFUL VIEWS IS DEFINED AS THREE USEFUL VIEWS WITH NO TWO VIEWS FROM THE SAME TRACKER.

3) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

4) TO MEET THE DATA DELIVERY TIMELINE, THIS ITEM WILL REQUIRE AIR TRANSPORT (HELICOPTER) FROM PONCE INLET COAST GUARD STATION TO LCC LANDING PAD.

5) PROVIDE PORT-O-LETS AND POTABLE WATER AT CAMERA SITE. REFERENCE PRD DBR 17054.

6) PROVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

7) MAKE A MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 10634 TRACKING CAMERA AZIMUTH AND ELEVATION
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 576036
ITEM NUMBER: HKT49K

LANDINGS

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	1 CD	MSFC/EV12/TOM RIECKHOFF/256 544-7677
2	EP	1	1 CD	JSC/KX/JON DISLER/281 483-5182
3	EP	1	1 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
4	EP	1	1 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 03/01/07
RESPONSE: PADD # E211

RESPONSE TRACKING: Z0504-4

[PRD] DATABASE RECORD: 576037 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/01/07
INITIAL DATE: 04/09/04
ITEM NUMBER: HKT50EK DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 12:01:04

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: E212 GC RANGE

ASSOCIATED DOC: 20007S
TRACKING NO. A0701-1 PAGE04 PAGE07 R0403-1 R0412-3
R0503-2 R0504-9 R0608-5 R0703-2
PRIORITY: REQUIRED
RATIONALE: ENGINEERING PHOTO COVERAGE. REQUIRED FOR THE ER. REQUIRED

CONTINUED

[PRD] DATABASE RECORD: 576037
ITEM NUMBER: HKT50EK

FOR USER. IF IMAGERY DATA IS ACQUIRED, IT IS MANDATORY FOR THE KICS CONTRACTOR TO DISTRIBUTE THE DATA PER THE LISTED KICS DATA DISPOSITION.

1. DESCRIPTION: E212 - LONG RANGE TRACKING CAMERA FROM SOUTH OF FLIGHT PATH

LOCATION: UCS-23
FIELD OF VIEW: AFT 1/3 OF VEHICLE, TRANSITIONING TO OVERALL SSV AS VIEW ALLOWS
CAMERA FORMAT: 35MM
F/L: 400"
FPS: 80-180 (MAXIMUM AS ALLOWED BY LIGHTING CONDITIONS)
FILM TYPE LOAD: 1000 FT
INTERVAL: T-0 SECONDS (IF PAD IS IN LINE OF VIEW) OR AOV TO END OF FILM
F/T: T
EXP.: FIXED
TIMING: YES, SYNCHRONIZE TO IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251
ER/CSR-4150/WILLIAM KLEINFELDER/321 853-6886

REMARKS: 1). HIGH-SPEED CAMERA COVERAGE OF THE AFT SSV TRANSITIONING TO ENTIRE VEHICLE AS VIEW ALLOWS, IS REQUIRED FROM AOV TO LOV TO RECORD VEHICLE MOTION, STRUCTURAL INTEGRITY, SSME/SRM OPERATION, AND POSSIBLE DEBRIS. AFTER SRB SEPARATION, TRACK SOUTHERN SRB.

2). IN THE EVENT OF A CATASTROHPHIC ACCIDENT THIS CAMERA IS TO TRACK THRUSTING BODIES PER EASTERN RANGE PROCEDURES.

3). THIS CAMERA IS ACTIVATED BY THE EASTERN RANGE.

CONTINUED

[PRD] DATABASE RECORD: 576037
ITEM NUMBER: HKT50EK

4). E204/EHV204 (ER), E208/EHV208/E210/EHV210, E212/EHV212 (ER), E214/EHV214, E216/EHV216 SHALL PROVIDE AT LEAST THREE USEFUL VIEWS OF VEHICLE UNTIL SRB SEPARATION. THREE USEFUL VIEWS IS DEFINED AS THREE VIEWS WITH NO TWO VIEWS FROM THE SAME TRACKER.

5). ER IMAGERY INSTRUMENTATION STATUS TO BE REPORTED (BY ER) AT LRR. AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

6). KICS TO PROVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

7). MAKE A MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 10634 TRACKING CAMERA AZIMUTH AND ELEVATION
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS

KICS DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	1 CD	MSFC/EV12/TOM RIECKHOFF/256 544-7677
2	EP	1	1 CD	JSC/KX/JON DISLER/281 483-5182

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 576037
ITEM NUMBER: HKT50EK

3	EP	1	1 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
4	EP	1	1 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635 (REQUEST ONLY FOR SCANNING PURPOSES)

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: CSR-3200
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/01/07

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/01/07
RESPONSE: PADD # E212

RESPONSE TRACKING: Z0412-2

[PRD] DATABASE RECORD: 576038 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/01/07
INITIAL DATE: 04/09/04
ITEM NUMBER: HKT51K DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 12:01:37

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: E213 GC RANGE

ASSOCIATED DOC: 20007S
TRACKING NO. A0701-1 PAGE04 PAGE07 R0403-1 R0504-9
R0608-5
PRIORITY: MANDATORY
RATIONALE: ENGINEERING PHOTO COVERAGE

CONTINUED

[PRD] DATABASE RECORD: 576038
ITEM NUMBER: HKT51K

1. DESCRIPTION: E213 - INTERMEDIATE RANGE TRACKING

LOCATION:	UCS-7 FOR PAD B LAUNCH; UCS-12 FOR PAD A LAUNCH
FIELD OF VIEW:	FORWARD PORTION OF SSV AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT:	35MM
F/L:	AS REQUIRED TO MEET FOV REQUIREMENT (NOMINALLY 1000MM)
FPS:	80-180 (MAXIMUM AS ALLOWED BY LIGHTING CONDITIONS)
FILM TYPE LOAD:	400 FT TO 1000 FT AS REQUIRED FOR COVERAGE
INTERVAL:	T-10 SECONDS (OR AOV) TO END OF FILM
F/T:	T
EXP.:	FIXED
TIMING:	YES, SYNCHRONIZE TO IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS:

1) HIGH-SPEED CAMERA COVERAGE IS REQUIRED OF FORWARD PORTION OF THE SSV FROM AOV TO LOV TO RECORD VEHICLE MOTION, STRUCTURAL INTEGRITY, SSME/SRM OPERATION AND POSSIBLE DEBRIS, TRANSITIONING TO ENTIRE VEHICLE AS VIEW ALLOWS. COVERAGE WILL OVERLAP CLOSE-IN TRACKING AND LONG-RANGE TRACKING DURING TRANSITION. CONTINUE TO TRACK ORBITER AFTER SRB SEPARATION.

2) COMBINATION OF CAMERAS E213/EHV213, E220/EHV220, AND E222/EHV222 SHALL PROVIDE AT LEAST THREE USEFUL VIEWS OF VEHICLE UNTIL END OF FILM. THREE USEFUL VIEWS IS DEFINED AS THREE VIEWS WITH NO TWO VIEWS FROM THE SAME TRACKER.

3) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

CONTINUED

[PRD] DATABASE RECORD: 576038
ITEM NUMBER: HKT51K

4) KICS TO PROVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

5) MAKE A MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 10634 TRACKING CAMERA AZIMUTH AND ELEVATION
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	1 CD	MSFC/EV12/TOM RIECKHOFF/256 544-7677
2	EP	1	1 CD	JSC/KX/JON DISLER/281 483-5182
3	EP	1	1 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
4	EP	1	1 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/01/07

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 576038
ITEM NUMBER: HKT51K

RESPONSE: PADD # E213

[PRD] DATABASE RECORD: 576041 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/01/07
INITIAL DATE: 04/09/04
ITEM NUMBER: HKT53EK DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 12:03:43

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/IT-D2
KSC/MK-SIO KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: E215 GC RANGE

ASSOCIATED DOC: 20007S
TRACKING NO. A0701-1 PAGE04 PAGE07 R0403-1 R0412-3
R0503-2 R0504-9 R0608-5
PRIORITY: REQUIRED
RATIONALE: ENGINEERING PHOTO COVERAGE. REQUIRED FOR ER. REQUIRED FOR USER. IF IMAGERY DATA IS ACQUIRED, IT IS MANDATORY FOR THE KICS CONTRACTOR TO DISTRIBUTE THE DATA PER THE LISTED KICS DATA DISPOSITION.

1. DESCRIPTION: E215 - LONG RANGE PHOTO TRACKING COVERAGE OF LAUNCH FROM NORTH OF FLIGHT PATH

LOCATION: UCS-11
FIELD OF VIEW: OVERALL SSV AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: 35MM
F/L: 400"
FPS: 80-180 (MAXIMUM AS ALLOWED BY LIGHTING CONDITIONS)
FILM TYPE LOAD: 1000 FT
INTERVAL: T-0 SECONDS (IF PAD IS IN LINE OF VIEW) OR AOV TO END OF FILM
F/T: T
EXP.: FIXED
TIMING: YES, SYNCHRONIZE TO IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 576041
ITEM NUMBER: HKT53EK

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251
ER/CSR-4150/WILLIAM KLEINFELDER/321 853-6886

REMARKS:

1) GROUND BASED, LONG RANGE TRACKING INSTRUMENT/HIGH-SPEED CAMERA IS REQUIRED TO TRACK THE FORWARD SSV TRANSITION TO OVERALL SSV AS VIEW ALLOWS FROM THE NORTH THROUGH POWERED FLIGHT UNTIL LOV FOR SRB STRUCTURAL INTEGRITY AND SSME/SRM OPERATION. AFTER SRB SEPARATION, TRACK NORTHERN SRB.

2) IN THE EVENT OF A CATASTROPHIC ACCIDENT THIS CAMERA IS TO TRACK THRUSTING BODIES PER EASTERN RANGE PROCEDURES.

3) THIS CAMERA IS ACTIVATED BY THE EASTERN RANGE.

4) E207/EHV207 (ER), E211/EHV211, E215/EHV215 (ER), AND E217/EHV217 SHALL PROVIDE AT LEAST THREE USEFUL VIEWS OF VEHICLE UNTIL SRB SEPARATION. THREE USEFUL VIEWS IS DEFINED AS THREE VIEWS WITH NO TWO VIEWS FROM THE SAME TRACKER.

5) ER IMAGERY INSTRUMENTATION STATUS TO BE REPORTED (BY ER) AT LRR. AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

6) KICS TO PROVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

7) MAKE A MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 576041
ITEM NUMBER: HKT53EK

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 10634 TRACKING CAMERA AZIMUTH AND ELEVATION
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS

KICS DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	1 CD	MSFC/EV12/TOM RIECKHOFF/256 544-7677
2	EP	1	1 CD	JSC/KX/JON DISLER/281 483-5182
3	EP	1	1 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
4	EP	1	1 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: CSR-4150
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/01/07

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/01/07
RESPONSE: PADD # E215

RESPONSE TRACKING: Z0412-2

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 576041
ITEM NUMBER: HKT53EK

[PRD] DATABASE RECORD: 576042 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/01/07
INITIAL DATE: 04/09/04
ITEM NUMBER: HKT54K DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 12:04:25

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: E216 GC RANGE

ASSOCIATED DOC: 20007S
TRACKING NO. A0701-1 PAGE04 PAGE07 R0403-1 R0504-9
R0608-5
PRIORITY: MANDATORY
RATIONALE: ENGINEERING PHOTO COVERAGE

1. DESCRIPTION: E216 - LONG RANGE PHOTO TRACKING COVERAGE OF
LAUNCH FROM SOUTH OF FLIGHT PATH

LOCATION: D5R67
FIELD OF VIEW: OVERALL SSV AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: 35MM
F/L: AS REQUIRED TO MEET FOV REQUIREMENT (NOMINALLY 400")
FPS: 80-180 (MAXIMUM AS ALLOWED BY LIGHTING CONDITIONS)
FILM TYPE LOAD: 1000 FT
INTERVAL: T-0 SECONDS (IF PAD IS IN LINE OF VIEW) OR AOV
TO END OF FILM
F/T: T
EXP.: FIXED
TIMING: YES, SYNCHRONIZE TO IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

CONTINUED

[PRD] DATABASE RECORD: 576042
ITEM NUMBER: HKT54K

REMARKS:

1) GROUND BASED, LONG RANGE TRACKING INSTRUMENT/HIGH-SPEED CAMERA IS REQUIRED TO TRACK THE SSV FROM THE SOUTH THROUGH POWERED FLIGHT UNTIL END OF FILM FOR SRB STRUCTURAL INTEGRITY AND SSME/SRM OPERATION. CONTINUE TRACK OF ORB/ER DURING AND AFTER SRB SEPARATION. DO NOT TRACK SEPARATED SRB'S.

2) E204/EHV204 (ER), E208/EHV208/E210/EHV210, E212/EHV212 (ER), E214/EHV214, AND E216/EHV216 SHALL PROVIDE AT LEAST THREE USEFUL VIEWS OF VEHICLE UNTIL SRB SEPARATION. THREE USEFUL VIEWS IS DEFINED AS THREE VIEWS WITH NO TWO VIEWS FROM THE SAME TRACKER

3) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

4) PROVIDE PORT-O-LET AND POTABLE WATER AT CAMERA SITE. REFERENCE PRD DBR 17054.

5) KICS TO PROVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

6) MAKE A MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 10634 TRACKING CAMERA AZIMUTH AND ELEVATION
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 576042
ITEM NUMBER: HKT54K

REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	1 CD	MSFC/EV12/TOM RIECKHOFF/256 544-7677
2	EP	1	1 CD	JSC/KX/JON DISLER/281 483-5182
3	EP	1	1 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
4	EP	1	1 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 03/01/07
RESPONSE: PADD # E216

RESPONSE TRACKING: Z0504-5

[PRD] DATABASE RECORD: 576043 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/01/07
INITIAL DATE: 04/09/04
ITEM NUMBER: HKT55K DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 12:05:06

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: E217 GC RANGE

ASSOCIATED DOC: 20007S
TRACKING NO. A0701-1 PAGE04 PAGE07 R0403-1 R0504-9

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 576043
ITEM NUMBER: HKT55K

R0608-5
PRIORITY: MANDATORY
RATIONALE: ENGINEERING PHOTO COVERAGE

1. DESCRIPTION: E217 - LONG RANGE PHOTO TRACKING COVERAGE OF LAUNCH FROM NORTH OF FLIGHT PATH

LOCATION: APOLLO BEACH
FIELD OF VIEW: OVERALL SSV AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: 35MM
F/L: AS REQUIRED TO MEET FOV REQUIREMENT (NOMINALLY 400")
FPS: 80-180 (MAXIMUM AS ALLOWED BY LIGHTING CONDITIONS)
FILM TYPE LOAD: 1000 FT
INTERVAL: T-0 SECONDS (IF PAD IS IN LINE OF VIEW) OR AOV TO END OF FILM
F/T: T
EXP.: FIXED
TIMING: YES, SYNCHRONIZE TO IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS:

1) A GROUND BASED, LONG RANGE TRACKING INSTRUMENT/HIGH-SPEED CAMERA IS REQUIRED TO TRACK THE OVERALL SSV FROM THE NORTH THROUGH POWERED FLIGHT UNTIL END OF FILM FOR SRB STRUCTURAL INTEGRITY AND SSME/SRM OPERATION. CONTINUE TRACK OF ORB/ET DURING AND AFTER SRB SEPARATION. DO NOT TRACK SEPARATED SRB'S.

2) E207/EHV20 (ER), E211/EHV211, E215/EHV215 (ER), AND E217/EHV217 SHALL PROVIDE AT LEAST THREE USEFUL VIEWS OF VEHICLE UNTIL SRB SEPARATION. THREE USEFUL VIEWS IS DEFINED AS THREE VIEWS WITH NO TWO VIEWS FROM THE SAME

CONTINUED

[PRD] DATABASE RECORD: 576043
ITEM NUMBER: HKT55K

TRACKER.

3) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

4) TO MEET THE DATA DELIVERY TIMELINE, THIS ITEM WILL REQUIRE AIR TRANSPORT (HELICOPTER) APOLLO BEACH TRACKING SITE LOT 5, GPS COORDINATES FOR LANDING N28 deg 51.455', W080 deg 46.574') TO LCC LANDING PAD.

5) PROVIDE PORT-O-LET AND POTABLE WATER AT CAMERA SITE. REFERENCE PRD DBR 017054.

6) PROVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

7) MAKE A MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 10634 TRACKING CAMERA AZIMUTH AND ELEVATION
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	2 CD	MSFC/EV12/TOM RIECKHOFF/256 544-7677

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 576043
ITEM NUMBER: HKT55K

2	EP	1	2 CD	JSC/KX/JON DISLER/281 483-5182
3	EP	1	2 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
4	EP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/01/07
RESPONSE: PADD # E217

RESPONSE TRACKING: Z0504-5

[PRD] DATABASE RECORD: 576044 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/01/07
INITIAL DATE: 04/09/04
ITEM NUMBER: HKT56K DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 12:05:37

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: E220 GC RANGE

ASSOCIATED DOC: 20007S
TRACKING NO. A0701-1 PAGE04 PAGE07 R0403-1 R0504-9
R0608-5
PRIORITY: MANDATORY
RATIONALE: ENGINEERING PHOTO COVERAGE

1. DESCRIPTION: E220 - INTERMEDIATE RANGE TRACKING

LOCATION: UCS-15 FOR PAD B LAUNCH; UCS-8 FOR PAD A LAUNCH
FIELD OF VIEW: CENTERED ON FORWARD PORTION OF SSV AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: 35MM

CONTINUED

[PRD] DATABASE RECORD: 576044
ITEM NUMBER: HKT56K

F/L:	AS REQUIRED TO MEET FOV REQUIREMENT (NOMINALLY 150")
FPS:	80-180 (MAXIMUM AS ALLOWED BY LIGHTING CONDITIONS)
FILM TYPE LOAD:	400 FT TO 1000 FT AS REQUIRED FOR COVERAGE
INTERVAL:	T-10 SECONDS (OR AOV) TO END OF FILM
F/T:	T
EXP.:	FIXED
TIMING:	YES, SYNCHRONIZE TO IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS:

1) HIGH-SPEED CAMERA COVERAGE IS REQUIRED, CENTERED ON THE FORWARD PORTION OF SSV AND TRANSITIONING TO ENTIRE VEHICLE AS VIEW ALLOWS, FROM AOV TO LOV TO RECORD VEHICLE MOTION, STRUCTURAL INTEGRITY, SSME/SRM OPERATION AND POSSIBLE DEBRIS. COVERAGE WILL OVERLAP CLOSE-IN TRACKING AND LONG-RANGE TRACKING DURING TRANSITION. CONTINUE TO TRACK ORBITER AFTER AFTER SRB SEPARATION.

2) COMBINATION OF CAMERAS E213/EHV213, E220/EH220, AND E222/EHV222 SHALL PROVIDE AT LEAST THREE USEFUL VIEWS OF VEHICLE UNTIL END OF FILM. THREE USEFUL VIEWS IS DEFINED AS THREE VIEWS WITH NO TWO VIEWS FROM THE SAME TRACKER.

3) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

4) PROVIDE PORT-O-LET AND POTABLE WATER AT CAMERA SITE. REFERENCE PRD DBR 17054.

5) KICS TO PROVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE

CONTINUED

[PRD] DATABASE RECORD: 576044
ITEM NUMBER: HKT56K

UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

6) MAKE A MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 10634 TRACKING CAMERA AZIMUTH AND ELEVATION
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	1 CD	MSFC/EV12/TOM RIECKHOFF/256 544-7677
2	EP	1	1 CD	JSC/KX/JON DISLER/281 483-5182
3	EP	1	1 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
4	EP	1	1 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/01/07
RESPONSE: PADD # E220

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 576044
ITEM NUMBER: HKT56K

[PRD] DATABASE RECORD: 576045 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/01/07
INITIAL DATE: 04/09/04
ITEM NUMBER: HKT57K DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 12:06:22

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: E222 GC RANGE

ASSOCIATED DOC: 20007S
TRACKING NO. A0701-1 PAGE04 PAGE07 R0403-1 R0504-9
R0608-5 R0608-6
PRIORITY: MANDATORY
RATIONALE: ENGINEERING PHOTO COVERAGE

1. DESCRIPTION: E222 - INTERMEDIATE RANGE TRACKING

LOCATION: NORTH BEACH J8-1821 FOR PAD B LAUNCH; SOUTH BEACH K8-741 FOR PAD A LAUNCH
FIELD OF VIEW: AFT PORTION OF VEHICLE AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: 35MM
F/L: AS REQUIRED TO MEET FOV REQUIREMENT (NOMINALLY 80")
FPS: 80-180 (MAXIMUM AS ALLOWED BY LIGHTING CONDITIONS)
FILM TYPE LOAD: 400 FT TO 1000 FT AS REQUIED FOR COVERAGE
INTERVAL: T-10 SECONDS (OR AOV) TO END OF FILM
F/T: T
EXP.: FIXED
TIMING: YES, SYNCHRONIZE TO IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

CONTINUED

[PRD] DATABASE RECORD: 576045
ITEM NUMBER: HKT57K

REMARKS:

1) HIGH-SPEED CAMERA COVERAGE IS REQUIRED, CENTERED ON AFT PORTION OF THE SSV AND TRANSITIONING TO ENTIRE VEHICLE AS VIEW ALLOWS, FROM AOV TO LOV, TO RECORD VEHICLE MOTION, STRUCTURAL INTEGRITY, SSME/SRM OPERATION AND POSSIBLE DEBRIS. CONCENTRATE ON SSME PERFORMANCE. COVERAGE WILL OVERLAP CLOSE-IN TRACKING AND LONG-RANGE TRACKING DURING TRANSITION. CONTINUE TO TRACK ORBITER/ET AFTER SRB SEPARATION.

2) COMBINATION OF CAMERAS E213/EHV213, E220/EHV220, AND E222/EHV222 SHALL PROVIDE AT LEAST THREE USEFUL VIEWS OF VEHICLE UNTIL END OF FILM. THREE USEFUL VIEWS IS DEFINED AS THREE VIEWS WITH NO TWO VIEWS FROM THE SAME TRACKER.

3) COMBINATION OF CAMERAS E220/EHV220, E224/EHV224 AND E226/EHV226 SHALL PROVIDE AT LEAST THREE USEFUL VIEWS OF VEHICLE UNTIL END OF FILM. THREE USSEFUL VIEWS IS DEFINED AS THREE VIEWS WITH NO TWO VIEWS FROM THE SAME TRACKER.

4) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

5) PROVIDE PORT-O-LET AND POTABLE WATER AT CAMERA SITE. REFERENCE PRD DBR 17054.

6) KICS TO PROVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

7) MAKE A MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 576045
ITEM NUMBER: HKT57K

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 10634 TRACKING CAMERA AZIMUTH AND ELEVATION
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	1 CD	MSFC/EV12/TOM RIECKHOFF/256 544-7677
2	EP	1	1 CD	JSC/KX/JON DISLER/281 483-5182
3	EP	1	1 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
4	EP	1	1 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/01/07
RESPONSE: PADD # E222

[PRD] DATABASE RECORD: 576047
DOCUMENT ID: LLS
ITEM NUMBER: HKT59K
SECTION: 3120

REQUIREMENT STATUS: APPROVED
APPROVAL DATE: 03/01/07
INITIAL DATE: 04/09/04
DATE LAST CHANGED: 03/06/07
TIME LAST CHANGED: 12:06:58

REQUESTER:	MSFC	KSC	JSC	
SUBREQUESTER:	JSC/HS4-40	JSC/KX	JSC/MS2	KSC/MK-SIO
	KSC/NE-M7	MSFC/EV12	MSFC/MP71	
TEST CODE:	E224	GC RANGE		

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 576047
ITEM NUMBER: HKT59K

ASSOCIATED DOC: 20007S
TRACKING NO. A0701-1 PAGE04 PAGE07 R0403-1 R0504-9
R0608-5 R0608-6
PRIORITY: MANDATORY
RATIONALE: ENGINEERING PHOTO COVERAGE

1. DESCRIPTION: E224 - INTERMEDIATE RANGE TRACKING

LOCATION: UCS-5 FOR PAD B LAUNCH; UCS-16 FOR PAD A LAUNCH
FIELD OF VIEW: AFT PORTION OF SSV AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: 35MM
F/L: AS REQUIRED TO MEET FOV REQUIREMENT (NOMINALLY 150")
FPS: 80-180 (MAXIMUM AS ALLOWED BY LIGHTING CONDITIONS)
FILM TYPE LOAD: 400 FT TO 1000 FT AS REQUIRED FOR COVERAGE
INTERVAL: T-10 SECONDS (OR AOV) TO END OF FILM
F/T: T
EXP.: FIXED
TIMING: YES, SYNCHRONIZE TO IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS: 1) HIGH-SPEED CAMERA COVERAGE IS REQUIRED, CENTERED ON AFT PORTION OF THE SSV AND TRANSITIONING TO ENTIRE SSV AS VIEW ALLOWS, FROM AOV TO LOV, TO RECORD VEHICLE MOTION, STRUCTURAL INTEGRITY, ENGINE OPERATION AND POSSIBLE DEBRIS DURING EARLY FLIGHT. CONCENTRATE ON SSME PERFORMANCE. COVERAGE WILL OVERLAP CLOSE-IN IN TRACKING AND LONG-RANGE TRACKING DURING TRANSITION.

2) COMBINATION OF CAMERAS E224/EHV224, E225/EHV225, E226/EHV226 SHALL PROVIDE AT LEAST THREE USEFUL VIEWS OF VEHICLE UNTIL END OF FILM. THREE USEFUL VIEWS IS DEFINED AS THREE VIEWS WITH NO TWO VIEWS FROM THE SAME

CONTINUED

[PRD] DATABASE RECORD: 576047
ITEM NUMBER: HKT59K

TRACKER.

3) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

4) PROVIDE PORT-O-LET AND POTABLE WATER AT CAMERA SITE. REFERENCE PRD DBR 17054.

5) KICS TO PROVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

6) MAKE A MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 10634 TRACKING CAMERA AZIMUTH AND ELEVATION
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	1 CD	MSFC/EV12/TOM RIECKHOFF/256 544-7677
2	EP	1	1 CD	JSC/KX/JON DISLER/281 483-5182
3	EP	1	1 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
4	EP	1	1 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 576047
ITEM NUMBER: HKT59K

(ON REQUEST ONLY FOR SCANNING PURPOSES)

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/01/07
RESPONSE: PADD # E224

RESPONSE TRACKING: Z0504-5

[PRD] DATABASE RECORD: 576048 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/01/07
INITIAL DATE: 04/09/04
ITEM NUMBER: HKT60K DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 12:07:42

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: E225 GC RANGE

ASSOCIATED DOC: 20007S
TRACKING NO. A0701-1 PAGE04 PAGE07 R0403-1 R0504-9
R0608-5
PRIORITY: MANDATORY
RATIONALE: ENGINEERING PHOTO COVERAGE

1. DESCRIPTION: E225 - INTERMEDIATE RANGE TRACKING

LOCATION: UCS-9 FOR PAD B; UCS-4 FOR PAD A LAUNCH
FIELD OF VIEW: CENTERED ON FORWARD PORTION OF SSV AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: 35MM
F/L: AS REQUIRED TO MEET FOV REQUIREMENT (NOMINALLY 150")
FPS: 80-180 (MAXIMUM AS ALLOWED BY LIGHTING CONDITIONS)
FILM TYPE LOAD: 400 FT TO 1000 FT AS REQUIRED FOR COVERAGE

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 576048
ITEM NUMBER: HKT60K

INTERVAL: T-10 SECONDS (OR AOV) TO END OF FILM
F/T: T
EXP.: FIXED
TIMING: YES, SYNCHRONIZE TO IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS:

1) HIGH-SPEED CAMERA COVERAGE IS REQUIRED, CENTERED ON FORWARD PORTION OF THE SSV AND TRANSITIONING TO ENTIRE SSV AS VIEW ALLOWS, FROM AOV TO LOV, TO RECORD VEHICLE MOTION, STRUCTURAL INTEGRITY, ENGINE OPERATION AND POSSIBLE DEBRIS DURING EARLY FLIGHT. COVERAGE WILL OVERLAP CLOSE-IN TRACKING AND LONG-RANGE TRACKING DURING TRANSITION

2) COMBINATION OF CAMERAS E224/EHV224, E225/EHV225, AND E226/EHV226 SHALL PROVIDE AT LEAST THREE USEFUL VIEWS OF VEHICLE UNTIL END OF FILM. THREE USEFUL VIEWS IS DEFINED AS THREE VIEWS WITH NO TWO VIEWS FROM THE SAME TRACKER.

3) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

4) PROVIDE PORT-O-LET AND POTABLE WATER AT CAMERA SITE. REFERENCE PRD DBR 17054.

5) KICS TO PROVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

6) MAKE A MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC & MSFC IAF PER THE DATA DISPOSITION.

CONTINUED

[PRD] DATABASE RECORD: 576048
ITEM NUMBER: HKT60K

MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 10634 TRACKING CAMERA AZIMUTH AND ELEVATION
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	1 CD	MSFC/EV12/TOM RIECKHOFF/256 544-7677
2	EP	1	1 CD	JSC/KX/JON DISLER/281 483-5182
3	EP	1	1 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
4	EP	1	1 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/01/07
RESPONSE: PADD # E225

RESPONSE TRACKING: Z0504-5

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 576049 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/01/07
INITIAL DATE: 04/09/04
ITEM NUMBER: HKT61K DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 12:08:23

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: E226 GC RANGE

ASSOCIATED DOC: 20007S
TRACKING NO. A0701-1 PAGE04 PAGE07 R0403-1 R0504-9
R0608-5
PRIORITY: MANDATORY
RATIONALE: ENGINEERING PHOTO COVERAGE

1. DESCRIPTION: E226 - INTERMEDIATE RANGE TRACKING AND RTLS

LOCATION: UCS-17 FOR PAD B; UCS-15 FOR PAD A LAUNCH
FIELD OF VIEW: OVERALL SSV AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: 35MM
F/L: AS REQUIRED TO MEET FOV REQUIREMENT (NOMINALLY 150")
FPS: 80-180 (MAXIMUM AS ALLOWED BY LIGHTING CONDITIONS)
FILM TYPE LOAD: 400 FT TO 1000 FT AS REQUIRED FOR COVERAGE
INTERVAL: T-10 SECONDS (OR AOV) TO END OF FILM
F/T: T
EXP.: FIXED
TIMING: YES, SYNCHRONIZE TO IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS:

1) HIGH-SPEED CAMERA COVERAGE IS REQUIRED, CENTERED ON SSV AND TRANSITIONING TO ENTIRE SSV AS VIEWS ALLOWS, FROM AOV TO LOV, TO RECORD VEHICLE MOTION, STRUCTURAL INTEGRITY, ENGINE OPERATION AND POSSIBLE DEBRIS DURING

CONTINUED

[PRD] DATABASE RECORD: 576049
ITEM NUMBER: HKT61K

EARLY FLIGHT. COVERAGE WILL OVERLAP CLOSE-IN TRACKING AND LONG-RANGE TRACKING DURING TRANSITION.

2) COMBINATION OF CAMERAS E224/EHV224, E220/EHV220/ E225/ EHV225, AND E226/EHV226 SHALL PROVIDE AT LEAST THREE USEFUL VIEWS OF VEHICLE UNTIL END OF FILM. THREE USEFUL VIEWS IS DEFINED AS THREE VIEWS WITH NO TWO VIEWS FROM THE SAME TRACKER.

3) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

4) PROVIDE PORT-O-LET AND POTABLE WATER AT CAMERA SITE. REFERENCE PRD DBR 17054.

5) KICS TO PROVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

6) MAKE A MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 10634 TRACKING CAMERA AZIMUTH AND ELEVATION
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 576049
ITEM NUMBER: HKT61K

1	EP	1	1 CD	MSFC/EV12/TOM RIECKHOFF/256 544-7677
2	EP	1	1 CD	JSC/KX/JON DISLER/281 483-5182
3	EP	1	1 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
4	EP	1	1 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 03/01/07
RESPONSE: PADD # E226

[PRD] DATABASE RECORD: 16760 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/16/07
INITIAL DATE: 07/12/91
ITEM NUMBER: KT65KX DATE LAST CHANGED: 03/20/07
SECTION: 3120 TIME LAST CHANGED: 14:13:35

REQUESTER: KSC JSC
SUBREQUESTER: JSC/ES3 JSC/ES4 KSC/NE-M7 VAL93001
VALE VALO92004 VALO93001 VALOE
TEST CODE: EAFB KSC SLF STSALL
WSSH

ASSOCIATED DOC: 20026S 20027S 20028S
TRACKING NO. ERLSR9416 L004-12 L103-7 L107-4 L111-15
L204-9 L2719 L3016 L3034 L3513
L3952 L408-2 L410-3 L4325 L4941
L6403 L6605 L806-1 L901-2 L904-4
L912-2 L9903 LSR06-6-4 LSR0612-1 R0609-10
R0701-3 R0702-6 R109-82 R2812 R4208
R9310
PRIORITY: REQUIRED

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 16760
ITEM NUMBER: KT65KX

RATIONALE: ENGINEERING PHOTO COVERAGE

1. DESCRIPTION: EL064 TPS ENGINEERING STILL COVERAGE OF ORBITER POST LANDING TPS INSPECTION. SPECIFIC PHOTOS ASSOCIATED WITH THE ON-ORBIT TPS INSPECTION ACTIVITIES - SEE REMARKS (AT KSC ACCESS IS TYPICALLY

PROVIDED ON THE RUNWAY AT LANDING +1 HOUR).
LOCATION: EAFB, WSSH, KSC
FIELD OF VIEW:
CAMERA FORMAT: DIGITAL
FILM TYPE: HIGH RESOLUTION
FPS: STILL
FILM TYPE LOAD: COLOR

PRIME REQUESTER: JSC/ES3/COOPER SNAPP/281 483-6851
TECH CONTACT: JSC/ES3/COOPER SNAPP/281 483-6851
KSC/NE-M5/JOY HUFF/321 861-3672
KSC BOEING LESS/BRAD TIPTON/321 383-6189
KSC/NE-M7/TOM FORD/321 861-3635
KSC/MK-SIO/ROBERT PAGE/321 867-8516

REMARKS: PROVIDE DIGITAL PHOTOGRAPHY.
PHOTOGRAPHER TO ACCOMPANY THE TPS AND RCC INSPECTION TEAM AT EAFB, WSSH, OR KSC LANDING SITES. THE PHOTOGRAPHER WILL TAKE THE FOLLOWING REQUIRED PICTURES:

TPS INSPECTION TEAM (BOEING ENGINEER)
EL064-EOM REQUIRED IMAGES:

1. OVERALL - ORBITER LH SIDE VIEW
2. OVERALL - ORBITER RH SIDE VIEW
3. OVERALL - ORBITER FRONT VIEW
4. OVERALL - ORBITER AFT VIEW
5. CLOSE-UP VIEW OF CHIN PANEL AREA
6. BASE HEAT SHIELD DOME BLANKET (DAMAGE)
7. UPPER BODY FLAP IMPINGEMENT AREA, LH SIDE
8. UPPER BODY FLAP IMPINGEMENT AREA, RH SIDE

CONTINUED

[PRD] DATABASE RECORD: 16760
ITEM NUMBER: KT65KX

9. LOWER SURFACE ET DOOR CENTERLINE SHADOW AREA AND DOOR TILES

CONDITIONS OBSERVED AT THE LANDING SITE MAY REQUIRE REAL-TIME REQUESTS FOR IMAGES NOT IDENTIFIED IN THE REQUIRED IMAGERY LIST. A MAXIMUM OF 40 IMAGES MAY BE ACQUIRED. THIS INCLUDES THE 9 REQUIRED IMAGES PER THE LIST AND UP TO 31 IMAGES BY REAL-TIME REQUEST. IF ADDITIONAL IMAGES (MORE THAN 40) ARE REQUIRED THEN A CR SHALL BE SUBMITTED TO THE PROGRAM FOR ADDITIONAL FUNDING.

BACKGROUND - ALL DAMAGE TO RCC OR TILE SURFACES WILL BE ADDRESSED PER PRACA REQUIREMENTS AND DOCUMENTED ACCORDINGLY. HOWEVER, UNEXPLAINED OR "FUNNY" AREAS OBSERVED ON ORBIT MAY NOT BE DAMAGE WHILE STILL REQUIRING IMAGERY TO CLOSEOUT THE UNEXPLAINED CONDITIONS OBSERVED IN FLIGHT.

ALL IMAGES SHALL MEET THE FOLLOWING REQUIREMENTS:

IMAGES SHALL BE FULL RESOLUTION AND UNCROPPED. IMAGES SHALL BE SAVED AND DELIVERED IN BOTH RAW (E.G., DCR) FORMAT AND VERY LOW COMPRESSION JPEG FORMAT. IMAGES SHOULD HAVE INCLUDED METADATA SUCH AS FOCAL LENGTH OF LENS AND DATE/TIME OF CAPTURE.

SPECIFIC IMAGERY REQUIRMENTS BY EXTERNAL SURFACE (TILE, GAP FILLER & RCC)

FOR TILE:
RESOLUTION AT THE TILE SURFACE SHOULD BE AT LEAST 50 PIXELS-PER-INCH. THE IMAGE FIELD OF VIEW SHOULD BE WIDE ENOUGH TO INCLUDE ALL OF THE IMMEDIATELY ADJACENT NEIGHBORING TILES. THE VIEWING PERSPECTIVE SHOULD BE AS CLOSE AS POSSIBLE TO BEING NORMAL TO THE SURFACE. IF THE CAVITY HAS STEEP SIDES OR IS UNUSUALLY SHAPED, MULTIPLE PHOTOS FROM VARIOUS ANGLES SHOULD BE TAKEN. FOR ANY EXTREME CLOSE-UPS (NOT SHOWING NEIGHBORING TILES), A RULER SHALL BE PLACED IN THE VIEW TO

CONTINUED

[PRD] DATABASE RECORD: 16760
ITEM NUMBER: KT65KX

ESTABLISH SCALE. OTHERWISE, A RULER IN THE PICTURE IS STRONGLY DESIRED, BUT NOT REQUIRED.

FOR PROTRUDING GAP FILLERS:
RESOLUTION AT THE GAP FILLER SHOULD BE AT LEAST 50 PIXELS-PER-INCH. THE IMAGE FIELD OF VIEW SHOULD BE WIDE ENOUGH TO INCLUDE ALL OF THE IMMEDIATELY ADJACENT NEIGHBORING TILES. SHOTS SHOULD BE FACE-ON TO THE GAP FILLER (PERPENDICULAR TO THE LENGTH OF THE GAP AND TO THE PROTRUSION) AS MUCH AS POSSIBLE. IF THE GAP FILLER IS BENT OR LEANING BACK, MORE PICTURES SHOULD BE TAKEN TO SHOW THIS BY SIGHTING DOWN THE LENGTH OF THE GAP. IF THERE IS DISCOLORATION OF THE GAP FILLER ADDITIONAL PHOTOS SHOULD BE TAKEN TO SHOW THIS. WHENEVER POSSIBLE A RULER SHOULD BE PLACED ALONGSIDE (BUT NOT INFRONT OF) THE PROTRUDING GAP FILLER. THE RULER SHOULD BE PERPENDICULAR TO THE SURFACE OF TILES.

FOR REINFORCED CARBON CARBON (RCC):
RESOLUTION ON THE SURFACE OF AN RCC PANEL SHOULD BE AT LEAST 100 PIXELS-PER-INCH.
TO SUPPORT PROMPT PHOTOGRAMMETRY-BASED POSITION ESTIMATION, PARTICULARLY IF THE REGION OF INTEREST (ROI) MIGHT HAVE "DISAPPEARED" DURING REENTRY, AT EACH RCC SITE, CAPTURE IMAGES THAT ARE OVERLAPPING IN AREA BY ~20% STARTING FROM THE NEAREST CARRIER TILES ABOVE OR BELOW THE ROI (OR THE ESTIMATED POSITION OF THE ROI). FOR A DRYDEN LANDING, SPECIAL ATTENTION SHOULD BE PAID TO THOSE FEATURES THAT COULD CHANGE DURING THE TRANSFER FROM DRYDEN TO KSC, SUCH AS LOOSELY HELD COATING WHERE DAMAGE MAY HAVE OCCURRED OR LOOSELY DEPOSITED DEBRIS OF ANY SORT.

FOR THOSE DAMAGE SITES OR ROIs THAT SURVIVED REENTRY, SUPPORTING LESS PERSONNEL SHOULD USE AN APPROVED TAPE MEASURE AND OBTAIN THE ARC-LENGTH COORDINATES VERTICALLY FROM THE TOP OR BOTTOM OF THE PANEL AND HORIZONTALLY FROM THE NEAREST T-SEAL GAP AND RECORD THOSE TWO LENGTHS AS WELL AS A NOTE DESCRIBING THE

CONTINUED

[PRD] DATABASE RECORD: 16760
ITEM NUMBER: KT65KX

PANEL EDGE FROM WHICH THOSE MEASUREMENTS WERE MADE.

DISTRIBUTION WILL REMAIN THE SAME FOR ALL LANDING SITES. FOR OFF-SITE LANDING, SEND IMAGES BY MOST EXPEDITIOUS MEANS POSSIBLE TO KSC FOR POSTING ON MIRRORED SERVER, AND KAVE.

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	DIGITAL FILE	1	KSC LANDING + 4 HRS EAFB OR WSSH LANDING + 1 CD	KSC/NE-M7/TOM FORD (DELIVER FILE TO KAVE)/321 861-3635
2	DIGITAL FILE	1	KSC LANDING + 4 HOURS EAFB OR WSSH LANDING + 1 CD	KSC INTEGRATED IMAGERY SYSTEM (KIIS) MIRRORED SERVER (MS)
3	DIGITAL FILE	1	ON REQUEST ONLY	JSC/ES3/COOPER SNAP/281 483-6581 (FILE AVAILABLE VIA JSC IAF MS)
4	DIGITAL FILE	1	ON REQUEST ONLY	JSC/ES4/JEREMY BRAND/281 483-4019 (FILE AVAILABLE VIA JSC IAF MS)

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)

SUBSUPPLIER: IT-D2-C
RESPONDER: CHUCK BROWN/321 867-2090
SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/27/07
RESPONSE: PADD EL64

RESPONSE TRACKING: Z2803 Z2969 Z3026 Z3043 Z3521
Z4212 Z4353 Z4946 Z6403 Z9312

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 16760
ITEM NUMBER: KT65KX

Z9907

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: XA1
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/23/07
RESPONSE TRACKING: Z2803 Z2936 Z3043 Z3521 Z3997
Z4212 Z4353 Z4946 Z6403 Z6604
Z6926 Z9312 Z9907

[PRD] DATABASE RECORD: 521860 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/01/06
INITIAL DATE: 01/04/93
ITEM NUMBER: K65.1KX DATE LAST CHANGED: 03/20/07
SECTION: 3120 TIME LAST CHANGED: 14:14:46

REQUESTER: KSC
SUBREQUESTER: KSC/NE-M7
TEST CODE: EAFB KSC S5022.200 STSALL
WSSH

ASSOCIATED DOC: 20026S 20027S 20028S 25022S
TRACKING NO. A0701-1 L5413 LSR0612-1 R0609-10 R109-82
PRIORITY: REQUIRED
RATIONALE: ENGINEERING PHOTO COVERAGE

1. DESCRIPTION: ENGINEERING STILL PHOTOGRAPHIC COVERAGE OF ORBITER
POST LANDING INSPECTION (FOR DEBRIS TEAM)
(LANDING+1 HOUR)

LOCATION: KSC EAFB WSSH
CAMERA FORMAT: DIGITAL
FILM TYPE: HIGH RESOLUTION
FPS: STILL
FILM TYPE: COLOR

DEBRIS ASSESSMENT TEAM EL063-EOM REQUIRED IMAGES:

1. OVERALL - ORBITER LH SIDE VIEW

CONTINUED

[PRD] DATABASE RECORD: 521860
ITEM NUMBER: K65.1KX

2. OVERALL - ORBITER RH SIDE VIEW
3. OVERALL - ORBITER FRONT VIEW
4. OVERALL - ORBITER AFT VIEW
5. OVERALL - ORBITER LH2 ET/OV UMBILICAL SEPARATION PLANE
6. OVERALL - ORBITER LO2 ET/OV UMBILICAL SEPARATION PLANE
7. CLOSE-UP OF ORBITER WINDOWS #1-6
8. CLOSE-UP OF EO-1 ATTACH POINT
9. CLOSE-UP OF EO-2 ATTACH POINT
10. CLOSE-UP OF EO-3 ATTACH POINT
11. OVERALL - LO2 ET/OV UMBILICAL DOOR OUTER SURFACE
12. OVERALL - LO2 ET/OV UMBILICAL DOOR INNER SURFACE
13. OVERALL - LH2 ET/OV UMBILICAL DOOR OUTER SURFACE
14. OVERALL - LH2 ET/OV UMBILICAL DOOR INNER SURFACE
15. OVERALL - RT MLG DOOR
16. OVERALL - LH MLG DOOR
17. OVERALL - RT NLG DOOR
18. OVERALL - LH NLG DOOR

TECH CONTACT: KSC/NE-M7/TOM FORD/321 861-3635
PRIME REQUESTER:KSC/NE-M7/TOM FORD/321 861-3635

REMARKS: PROVIDE PHOTOGRAPHER DIGITAL CAMERA AND DIGITAL STORAGE AS REQUIRED TO ACCOMPANY THE KSC DEBRIS TEAM LEADER / REPRESENTATIVE AT KSC, EAFB, AND WSSH. THE PHOTOGRAPHER WILL TAKE DESIGNATED PHOTOGRAPHS OF DEBRIS DAMAGE, TIRES, BRAKES, WINDOWS, UMBILICAL DISCONNECTS, UNUSUAL TYPES OF VEHICLE DAMAGE, AND ANYTHING ELSE REQUIRED BY THE ENGINEERING INSPECTION TEAMS. MOST OF THE PHOTOGRAPHS WILL BE TAKEN ON THE RUNWAY IMMEDIATELY AFTER LANDING, THOUGH ADDITIONAL PHOTOGRAPHS MAY BE TAKEN IN THE OPF (KSC) OR MDD (EAFB/WSSH), IF NECESSARY.

DEBRIS TEAM LEADER WILL DECIDE REAL-TIME THE NUMBER OF COPIES TO BE PRINTED OR BURNED ON DVD, DECIDE WHO THE RECIPIENTS WILL BE, AND WILL MAKE DISTRIBUTION.

THE DEBRIS TEAM LEAD WILL DETERMINE REAL TIME THE FOV AND ANGLE OF INCIDENT OF THE REQUESTED IMAGES. DUE TO LIGHTING AND OTHER LANDING DAY CONDITIONS THE PHOTOGRAPHER

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 521860
ITEM NUMBER: K65.1KX

WILL DETERMINE THE BEST RESOLUTION AND EXPOSURE REQUIRED
TO CAPTURE THE IMAGE.

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	DIGITAL FILE	1 *	LANDING + 4 HRS	KSC/NE-M7/TOM FORD/ 321 861-3635 (VIA KAVE)
2	DIGITAL FILE	1	LANDING + 4 HRS	KIIS MIRRORED SERVER

* = AS DIRECTED BY DEBRIS TEAM LEADER IN REAL TIME

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-C KICS-700

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/11/07
RESPONSE TRACKING: Z5418

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: XA1
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/01/06
RESPONSE TRACKING: Z5418

[PRD] DATABASE RECORD: 17078 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/07/00
INITIAL DATE: 02/12/90
ITEM NUMBER: T67K DATE LAST CHANGED: 01/11/07
SECTION: 3120 TIME LAST CHANGED: 13:59:55

REQUESTER: JSC
SUBREQUESTER: JSC/KX
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20004S
TRACKING NO. KING2001 L002-7 L207-1 L302-6 L3101

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 17078
ITEM NUMBER: T67K

L4606 L5525 L806-1 L912-2 L9903
R109-82 R2935

1. DESCRIPTION: STILL PHOTOGRAPHS OF THE ORBITER'S SIDES, TOP, AND UNDERSIDE (TPS); ET/ORB UMBILICALS

LOCATION: KSC
FIELD OF VIEW:
CAMERA FORMAT: 220
FPS: STILL
FILM TYPE LOAD: COLOR
FILM TYPE: VPS 3
PRIME REQUESTER: JSC/SN3/GREGORY BYRNE/281 483-0500
TECH CONTACT: JSC/SN3/GREGORY BYRNE/281 483-0500

REMARKS: STILL PHOTOGRAPHS OF THE ORBITER'S TPS SURFACES FROM NOSE TO THE BODY FLAP ARE REQUESTED FOR COMPARISON WITH THE POST-FLIGHT TPS INSPECTION STILL PHOTOGRAPHS TO DETERMINE THE EXTENT OF ANY TILE DAMAGE OR DETERIORATION. IN ADDITION, INCLUDE VIEWS OF THE ORBITER/

ET LH2 AND LO2 UMBILICALS. THE PHOTOGRAPHS SHOULD BE TAKEN PRIOR TO THE MATE OF THE ORBITER WITH THE ET/SRB STACK. THESE ORBITER PHOTOS SHOULD BE TAKEN DURING ROLLOVER BETWEEN THE OPF AND VAB AND WHILE THE ORBITER IS BEING LIFTED TO THE STACK IN THE VAB.

COORDINATION: JSC/SN3/JON DISLER/281 483-5182

DATA DISPOSITION:

REF	DATA TYPES	QUAN	TIME REQ	RECIPIENT/REMARKS
1	8X10 CL PR	1 COPY	7 WD	JSC/SN3/GREGORY BYRNE/ 281 483-0500

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-C KICS-700

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/07/00
RESPONSE:
PADD: TCDT E001

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 17078
ITEM NUMBER: T67K

RESPONSE TRACKING: Z2944 Z3101 Z4605 Z5527 Z9907

[PRD] DATABASE RECORD: 18578 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/24/96
INITIAL DATE: 09/08/89
ITEM NUMBER: K70EK DATE LAST CHANGED: 01/18/07
SECTION: 3120 TIME LAST CHANGED: 09:09:45

REQUESTER: KSC
SUBREQUESTER: VAL92009 VALE XA-EY
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. A3432 KING2001 L111-15 L7501 MK98
R109-82 R2803 R4208 R6536 R7403
SHAW94
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: VIDEO SIGNAL (T-30 MINUTES)

REQUEST A VIDEO SIGNAL FROM ATOTS TRACKER WHEN THE TRACKER IS LOCATED AT UCS-23.

REF. LLS SECT. 2766, ITEM K62EK, DBR 018455.

TECHNICAL CONTACTS: WILLIAM RAUCKHORST/USK-113/321 861-4748

PRIME REQUESTER: KSC

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/03/03
RESPONSE TRACKING: Z7504

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-C KICS-700

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/12/96

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 18578
ITEM NUMBER: K70EK

RESPONSE TRACKING: Z2802 Z3435 Z7412 Z7603

[PRD] DATABASE RECORD: 19957 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/07/00
INITIAL DATE: 04/17/90
ITEM NUMBER: HKTY74KTXZ DATE LAST CHANGED: 03/20/07
SECTION: 3120 TIME LAST CHANGED: 14:17:32

REQUESTER: MSFC KSC JSC
NASA HQ
SUBREQUESTER: JSC/KX JSC/MV KSC/NE-M7 MS104
TEST CODE: 25017V002 STSALL

ASSOCIATED DOC: 20026S 20027S 20028S
TRACKING NO. A0701-1 DB98 KING2001 L004-12 L105-2
L111-15 L204-14 L204-7 L207-1 L3201
L3513 L3718 L3907 L408-2 L4612
L4943 L4949 L611-2 L6403 L806-1
L8102 L901-2 L910-7 L912-2 L9903
R109-82 R3203 R4216 R8101 R9310
SHAW94
PRIORITY: REQUIRED
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE

1. DESCRIPTION: ET/ORB UMBILICAL CAMERA HANDLING

WHEN CAMERAS ARE FLOWN IN THE ORBITER UMBILICAL CAVITIES,
THE 35MM STILL CAMERA WILL BE EXPEDITED TO JSC FOR PROCESSING.
CAMERAS SHOULD BE READY FOR SHIPMENT BY APPROXIMATELY HOURS.

WHEN 16MM MOTION PICTURE CAMERAS ARE FLOWN IN THE CAVITIES,
THESE CAMERAS SHALL BE REMOVED FROM THE ORBITER AND DELIVERED
TO THE FLIGHT CREW EQUIPMENT LAB AT KSC FOR UNLOADING AND PROCESSING
BY KICS-700.

PRIME REQUESTER: JSC/MV/KENNETH BROWN/281 483-3891
TECH CONTACT: JSC/SN3/GREGORY BYRNE/281 483-0500
KSC/NE-M7/TOM FORD/321-867-3635
MSFC/TD53/TOM RIECKHOFF/256 544-7677

CONTINUED

[PRD] DATABASE RECORD: 19957
ITEM NUMBER: HKTY74KTXZ

NOTE 1: TEST CODE 25017V002 IS TO SUPPORT OMI V5017.002.

NOTE 2: THE FOLLOWING REFERENCES CONTAIN THE PHOTO AND DATA DISPOSITION REQUIREMENTS FOR THIS ITEM.
REF: LLS3120, ITEM KHTY31T, DBR 006622
KTHY32T, DBR 006623

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-C KICS-700

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/07/00
RESPONSE TRACKING: Z3202 Z3203 Z3521 Z3717 Z4223
Z4702 Z5005 Z6403 Z8101 Z8123

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
SUBSUPPLIER: JSC/CC4 JSC/JL5
RESPONDER: KITTY CUNNINGHAM/281 483 0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/07/00
RESPONSE TRACKING: Z3202 Z3203 Z3521 Z3717 Z4223
Z4629 Z4947 Z4952 Z6403 Z8101
Z8123 Z9312

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FI
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/07/00
RESPONSE TRACKING: Z4239 Z4702 Z5005 Z6403 Z8303

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL 505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/07/00
RESPONSE TRACKING: Z4239 Z4726 Z5005 Z6403 Z8212

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD:	19999	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	LLS	APPROVAL DATE:	05/30/00
		INITIAL DATE:	04/17/90
ITEM NUMBER:	HKTY75KTXZ	DATE LAST CHANGED:	03/20/07
SECTION:	3120	TIME LAST CHANGED:	14:18:17

REQUESTER:	MSFC	KSC	JSC	NASA HQ
SUBREQUESTER:	JSC/B-NS MS104	JSC/KX MS222	JSC/MV	KSC/NE-M7
TEST CODE:	25017V002 WSSH	EAFB	KSC	STSALL

ASSOCIATED DOC:	20026S	20027S	20028S		
TRACKING NO.	A0701-1	A106-1	DB98	KING2001	L003-1
	L004-12	L04-2-1	L101-1	L105-2	L111-15
	L204-7	L206-12	L303-5	L3314	L3513
	L3718	L3907	L403-5	L408-2	L4602
	L4949	L508-5	L5546	L5914	L6403
	L6907	L708-1	L806-1	L8505	L901-2
	L910-9	L912-2	L9903	MA940401	R0402-1
	R109-82	R4216	R9310	SHAW94	SHAW95
PRIORITY:	REQUIRED				
RATIONALE:	PHOTO COVERAGE REQUIRED FOR MISSION SUPPORT.				

1. DESCRIPTION: HAND HELD PHOTOGRAPHY OF ET SEPARATION (35MM OR 70MM)

JSC REQUESTS THE HAND HELD ONBOARD PHOTOGRAPHY OF THE ET SEPARATION BE TRANSPORTED FROM ANY LANDING SITE TO JSC.
THIS FILM WILL BE PROCESSED AT JSC FOR IMMEDIATE DISTRIBUTION TO THE PHOTO EVALUATION CENTERS. REFERENCE JSC 16768 FLIGHT CREW EQUIPMENT LANDING SITE DISPOSITION MANUAL FOR TEST CONDITIONS AND ACTIVITY REQUIRED.

PRINTS OF ET OF CURRENT MISSION WILL BE PROVIDED TO CREW COMMANDER.

FPS : 1-2
FILM: 5017,ASA64

NOTE 1: TEST CODE 25017V002 IS TO SUPPORT OMI V5017.002 FOR ALL VEHICLES.

PRIME REQUESTER: JSC/MV/KENNETH BROWN/281 483-3891

CONTINUED

[PRD] DATABASE RECORD: 19999
ITEM NUMBER: HKTY75KTXZ

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1*	ROLL POSITIVE	1	2 WD	MSFC/TD53/TOM RIECKHOFF/ 256 544-7677 (CUT ROLL INTO SIX FRAME SEGMENTS AND SLEEVE)
2	"	"	"	KSC/NE-M7/TOM FORD 321 861-3635
3	"	"	"	JSC/SN3/JON DISLER 281 483-5182
4	"	"	"	B-NS/HOU/GAIL HARGROVE/HS4-40 281 226-5575
5	"	"	"	MMC-MICHOUD/DEPT 3570 STEVE COPSEY/504 257-3105
6*	8X10 PRINTS	1 SET	5 WD	MSFC/TD53/TOM RIECKHOFF/ 256 544-7677
7*	"	"	"	KSC/NE-M7/TOM FORD 321 861-3635
8*	"	"	"	MMC-MICHOUD/DEPT 3570 STEVE COPSEY/504 257-3105
9*	"	1 SET	"	B-NS/HOU/GAIL HARGROVE/HS4-40/ 281 226-5575
10*	"	1 SET	"	JSC/WC111/MARK HOLDERMAN 281 483-0976
11*	"	"	"	JSC/SN3/JON DISLER 281 483-5182

CONTINUED

[PRD] DATABASE RECORD: 19999
ITEM NUMBER: HKTY75KTXZ

12*	"	"	"	JSC/EG3/STEVE DERRY 281 483-6613
13	8X10 PRINTS	1 SET	"	JSC/SN3/JON DISLER 281 483-5182
14	8X10 PRINTS	1 SET	5WD	JSC/MS4/RANDALL ADAMS/ 281 483-5593

* NOTE: STILL FRAME ENLARGEMENTS TO BE SELECTED BY JSC/SN3/GREGORY BYRNE OR JSC/SN3/JON DISLER (EXCEPT FOR CONTINGENCY, NOT TO EXCEED 10 PRINTS).

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: NE-M7

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/30/00
RESPONSE TRACKING: Z3202 Z3203 Z3521 Z3717 Z4223
Z4702 Z5005 Z6403 Z8101 Z8123

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
SUBSUPPLIER: JSC/CC4 JSC/JL5
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/30/00
RESPONSE TRACKING: Z3202 Z3203 Z3521 Z3717 Z4223
Z4629 Z4947 Z4952 Z6403 Z8101
Z8123 Z9312 Z9907

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: XA1
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/30/00
RESPONSE TRACKING: Z101-5 Z4239 Z4608 Z4952 Z5554
Z5912 Z6403 Z7503 Z8509 Z9312
Z9907

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 19999
ITEM NUMBER: HKTY75KTXZ

RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/30/00
RESPONSE TRACKING: Z101-5 Z4239 Z4608 Z4952 Z5554
Z5912 Z6403 Z7925 Z8509 Z9312
Z9907

[PRD] DATABASE RECORD: 21682 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/03/01
INITIAL DATE: 04/03/90
ITEM NUMBER: K76T DATE LAST CHANGED: 01/12/07
SECTION: 3120 TIME LAST CHANGED: 06:45:32

REQUESTER: KSC
SUBREQUESTER: KSC/MK-SIO KSC/NE-M7
TEST CODE: DFRC ORBIT S0026.200 S0026.300
STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. A0701-1 DB98 KING2001 L105-2 L3137
L4921 R105-3
PRIORITY: REQUIRED
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE NOT MANDATORY.
HOWEVER, IMAGES ARE USED BY KSC FOR FLIGHT HARDWARE
PROCESSING ASSESSMENT IN RESOLUTION OF PROBLEM REPORTS,
IN-FLIGHT ANOMALIES, AND TREND ANALYSIS. IN ADDITION,
IMAGES ARE USED FOR SPACEPORT ENGINEERING AND TECHNOLOGY
ADVANCED PROJECTS, INTERNAL KSC PUBLICATIONS, DISPLAYS,
EXHIBITS, AND EDUCATION.

1. DESCRIPTION: ON-ORBIT VIEWS OF FLIGHT HARDWARE
LOCATION: ORBIT
FIELD OF VIEW:
CAMERA FORMAT: DIGITAL, HASSELBLAD (70MM), 35MM
F/L:
FPS:
FILM TYPE:
INTERVAL:
F/T:
EXP:

CONTINUED

[PRD] DATABASE RECORD: 21682
ITEM NUMBER: K76T

TIMING:
PRIME REQUESTER: KSC/MK-SIO/GREG KATNIK/321 867-4744
KSC/NE-M7/TOM FORD/321 861-3635
TECH CONTACT: KSC/PHOTOBIT/HOWARD WALLEN/321 867-4150
JSC/SCOTT NORR/281 483-1658

REMARKS: KSC REQUESTS DIGITAL IMAGE FILES (UNCOMPRESSED TIFF'S OR HIGH-END JPEG'S) ON CD-ROM DISKS FROM THE ON-ORBIT MISSION PHOTOGRAPHY SHOWING FLIGHT HARDWARE. THESE VIEWS WOULD TYPICALLY INCLUDE ORBITER STRUCTURES,

THERMAL PROTECTION SYSTEMS TILES/BLANKETS, EXTERNAL SURFACES, PAYLOAD STRUCTURES AND AIRBORNE SUPPORT EQUIPMENT, PAYLOAD BAY INTERFACES, EVA SUITS, EVA WORK,

CREW WORK IN THE CABIN AND ON THE FLIGHT DECK, TOOLS, AND ANY OTHER VIEWS THAT WOULD PERTAIN TO "FLIGHT HARDWARE ASSESSMENT".

VIEWS OF EARTH OBSERVATION, METEOROLOGY, OCEAN STUDIES,

ETC. ARE NOT REQUIRED. HOWEVER, THESE VIEWS CAN SOMETIMES APPEAR MIXED IN WITH THE FLIGHT HARDWARE VIEWS. IN THAT CASE, THE NON-FLIGHT-HARDWARE VIEWS DO NOT NEED TO BE EDITED OUT IF THE JSC COST/TIME EFFORT TO DO SO WOULD BE UNFAVORABLE.

NOTE: TO SAVE MONEY AND REDUCE MANHOURS IN MAKING DUPLICATE SETS, KSC RECIPIENTS ARE COMBINED INTO ONE SET OF IMAGES, WHICH WILL BE STORED IN THE PHOTO CONTRACTOR LIBRARY, HEADQUARTERS BUILDING, ROOM 2340, AND BE AVAILABLE FOR ALL KSC USERS (SHUTTLE AND PAYLOADS ENGINEERING, VITT, PUBLIC AFFAIRS, EDUCATION, ETC.).

DATA DISPOSITION:

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS

CONTINUED

[PRD] DATABASE RECORD: 21682
ITEM NUMBER: K76T

1	DIGITAL IMAGES	1 EA. CD	L + 60 DAYS	PHOTOBITION HQ BUILDING ROOM 2340
2	DIGITAL IMAGES	1 EA. CD	L + 60 DAYS	KSC/NE-M7/ TOM FORD/ 321 861-3635

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
SUBSUPPLIER: JSC/JL5
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/22/01
RESPONSE TRACKING: Z108-3 Z3548 Z4917

[PRD] DATABASE RECORD: 21698 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/30/00
INITIAL DATE: 05/08/91
ITEM NUMBER: KT77KX DATE LAST CHANGED: 03/20/07
SECTION: 3120 TIME LAST CHANGED: 14:19:00

REQUESTER: KSC JSC
SUBREQUESTER: JSC/B-NS JSC/ES5 JSC/MV KSC/NE-M7
TEST CODE: EAFB L41D18 STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. 207-1 A0701-1 A106-1 DB98 KING2001
L004-12 L004-3 L103-7 L105-2 L111-15
L204-10 L2640 L2948 L3533 L3953
L4010 L408-2 L4606 L508-1 L5305
L6403 L901-2 L902-14 L912-2 L9903
R109-82 R26212 R3511 R4213 R5001
R6510 R9310 SHAW94 SHAW95
PRIORITY: REQUIRED
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE

1. DESCRIPTION: PHOTOGRAPHS TIRE ANOMALIES OCCURING
DURING LANDING EAFB AND KSC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 21698
ITEM NUMBER: KT77KX

PROVIDE STILL COLOR PHOTO COVERAGE OF TIRE SPIN UP, AND/OR TIRE TREAD WEAR DAMAGE ON THE RUNWAY AT EAFB AND KSC SPACE SHUTTLE LANDINGS. (ESTIMATE OF FOUR SHOTS PER WHEEL PER LANDING.)

PRIME REQUESTER: JSC/MV/KENNETH BROWN/281 483-3891

TECH CONTACT: JSC/ES2/CARLISLE CAMPBELL/281 483-8948
KSC/NE-M7/TOM FORD/321 861-3635

REF: LLS SECT 6000, ITEM T18EK, DBR 283080 (KSC).
LLS SECT 6000, ITEM T18.2EX, DBR 017057 (EAFB).

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	COLOR PRINTS	3	2 CD	KSC NASA MEQ/NE-M7 (ON SITE AT DFRC).
2	DUPE COLOR NEGS	1	2 CD	JSC/GP45/RICHARD SLATER 281 483-7723
3	COLOR PRINTS	1	2 CD	B-NS/HOU/GAIL HARGROVE/HS4-40 281 226-5575 13100 SPACE CENTER BLVD. HOUSTON, TX 77059-3556

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-NE-M7 USK-408

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 05/30/00
RESPONSE: TIRE/WHEEL PHOTOS ARE TAKEN ON WORK ORDER PADD EL063
PADD EL063 EL-62 BY THE KICS-700 PHOTOGRAPHER WITH
THE KSC TECHNICAL CONTACT IN ATTENDANCE.

RESPONSE TRACKING: Z6403 Z7922 Z9312

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: XA1
RESPONDER: GEORGE GRIMSHAW/661 276-3425

CONTINUED

[PRD] DATABASE RECORD: 21698
ITEM NUMBER: KT77KX

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/30/00
RESPONSE:
EL60, EL62 AND EL63

RESPONSE TRACKING: Z26178 Z2987 Z3508 Z3535 Z3998
Z4014 Z4218 Z4620 Z5001 Z5304
Z6403 Z6519 Z7503 Z9312

[PRD] DATABASE RECORD: 558412 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/27/02
INITIAL DATE: 01/26/01
ITEM NUMBER: T91K DATE LAST CHANGED: 01/12/07
SECTION: 3120 TIME LAST CHANGED: 07:17:48

REQUESTER: JSC
SUBREQUESTER: JSC/KX
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20003S 25214A
TRACKING NO. A0701-1 KING2001 L01-1-1 R109-82 R9804

1. DESCRIPTION: STILL PHOTOGRAPHS OF THE EXTERNAL TANK (ET) TPS, INCLUDING THE PORT AND STARBOARD ET THRUST PANELS AND THE ET/ORB UMBILICALS, PRIOR TO ORBITER MATE (PRE-LAUNCH).

LOCATION: KSC
FIELD OF VIEW:
CAMERA FORMAT: 220
FPS: STILL
FILM TYPE LOAD: COLOR
FILM TYPE: VPS 3
PRIME REQUESTER: JSC/SN3-LM/JON DISLER/281 483-5182
TECH CONTACT: JSC/SN3-LM/JON DISLER/281 483-5182

REMARKS: STILL PHOTOGRAPHS OF THE EXTERNAL TANK (ET) TAKEN PRIOR TO ORBITER MATE OF THE ET TPS SURFACES FROM THE ET NOSE TO THE AFT DOME ARE ALSO REQUESTED. THESE STILL PHOTOGRAPHS WILL BE USED FOR COMPARISON WITH THE EXTERNAL TANK UMBILICAL WELL AND HANDHELD ON-ORBIT

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 558412
ITEM NUMBER: T91K

IMAGERY TO DETERMINE THE EXTENT OF ANY SURFACE DAMAGE OR DETERIORATION OF THE ET.

COORDINATION: JSC/SN3-LM/JON DISLER/281 483-5182
JSC/SN3-HEI/CHRIS CLOUDT/281 483-5336

DATA DISPOSITION:

REF	DATA TYPES	QUAN	TIME REQ	RECIPIENT/REMARKS
1	8X10 CL PR	1 COPY	7 WD	JSC/SN3/JON DISLER 281 483-0500
2	8X10 CL PR	1 COPY	7WD	KSC/NE-M7/TOM FORD/ 321 861-3635

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: KICS-700

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/27/02
RESPONSE: PADD: TCDT E-002

[PRD] DATABASE RECORD: 6599 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/30/00
INITIAL DATE: 11/20/87
ITEM NUMBER: KTX92EKX DATE LAST CHANGED: 03/20/07
SECTION: 3120 TIME LAST CHANGED: 14:19:34

REQUESTER:	KSC	JSC		DFRC
SUBREQUESTER:	JSC/B-NS	JSC/KX	JSC/MV	NE-M
	VAL092004	VALE	VALO93001	VALOE
TEST CODE:	EAFB	KSC	S51C04	STSALL

ASSOCIATED DOC: 20026S 20028S

TRACKING NO.	A0701-1	A106-1	KING2001	L04-2-1	L103-7
	L204-7	L206-7	L2639	L2749	L3630
	L3907	L3949	L408-2	L4318	L4946
	L501-4	L5015	L507-1	L5105	L5723
	L601-6	L611-2	L6303	L6401	L7506

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 6599
ITEM NUMBER: KTX92EKX

L806-1	L901-2	L912-2	L9903	MK98
R0402-1	R109-82	R26223	R2636	R2648
R2809	R8101	R9310	SHAW94	SHAW95

1. DESCRIPTION: ORBITER LANDING ACQUISITION THRU ROLLOUT
FOR NOMINAL, RTLS, AOA OR CONTINGENCY LANDINGS.
(LANDING-30 MINUTES)

LOCATION: KSC, EAFB/DFRC
FIELD OF VIEW:
CAMERA FORMAT:
F/L:
FPS:
FILM TYPE LOAD:
INTERVAL: AOV THRU TOUCHDOWN AND ROLLOUT
F/T: T
EXP.:
TIMING: YES
PRIME REQUESTER: JSC/MV/KENNETH BROWN/281 483-3891
TECHNICAL CONTACT: JSC/SN3/GREGORY BYRNE/281 483-0500

REMARKS: PROVIDE PHOTO COVERAGE OF ORBITER FROM ACQUISITION OF VEHICLE THROUGH ROLLOUT TO AID IN THE DETERMINATION OF ANOMALIES. FIELD OF VIEW (FOV) WILL BE THE ENTIRE ORBITER VIEW, INCLUDING THE FULL DRAG PARACHUTE (TRAILING DISTANCE APPROXIMATELY 100 FEET) FOR SOME VIEWS TO SHOW VEHICLE RESPONSE TO THE DRAG CHUTE DEPLOY. ALL CAMERA POSITIONS ARE TO BE SITE SURVEYED. AZIMUTH AND ELEVATION OF CAMERA MOUNT WILL BE PROVIDED, (REF LLS3100, ITEM HT50EK, DBR 010634) AS WELL AS TIMING, (REF LLS3100, ITEM TH1.1EKXZ, DBR 227597). THE AZ/EL

AND TIMING DATA SHOULD BE UPDATED FOR EACH FRAME. FIXED CAMERA FOCAL LENGTH REQUIRED. FILM WILL BE VIEWED IN PROJECTION MODE. DO NOT MAKE REDUCTIONS OF ANY LARGE FORMAT FILMS.

NOTE 1: DFRC WILL SUPPLY METRIC PHOTOGRAPHY.
NOTE 2: ON SLF, KSC REDUCED COVERAGE WILL BE SUPPORTED FOR RTLS AND CONTINGENCY LANDINGS.

DATA DISPOSITION:

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 6599
ITEM NUMBER: KTX92EKX

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	3 WD	JSC/SN3/JON DISLER/281 483-5182
2	EP	1	3 WD	KSC/NE-M7/TOM FORD/321 861-3635
3	EP	1	5 WD	B-NS/HOU/HS4-40/GAIL HARGROVE/ ON REQUEST ONLY 281 226-5575
4	ORIG UP (EAFB LANDINGS ONLY) (35MM FILM ONLY)	1	ASAP	JSC/GP45/RICHARD SLATER/281 483-7723
5	ORIG UP (EAFB LANDINGS ONLY) (16MM FILM ONLY)	1	ASAP	KSC/KICS-700/ROBBIE ROBINSON/ 321 853-5386
6	VIDEO COMPOSITE 1 (EAFB LANDINGS ONLY) (16MM FILM)		14 DAYS	DFRC/D1017/JIM ROSS/ 661 258-2325
7	VIDEO COMPOSITE 1 (EAFB LANDINGS ONLY) (35MM FILM)		14 DAYS	DFRC/D1017/JIM ROSS/ 661 258-2325

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 05/30/00
RESPONSE:

SUPPORT WILL BE PER SUPPORT PLAN AS COORDINATED WITH DFRC.

RESPONSE TRACKING: Z26133 Z2646 Z2718 Z29105 Z2950
Z3018 Z3630 Z3710 Z3990 Z4346
Z4601 Z4951 Z5111 Z5728 Z6401
Z6915 Z7001 Z7704 Z8217 Z9907

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

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[PRD] DATABASE RECORD: 6599
ITEM NUMBER: KTX92EKX

SUBSUPPLIER: IT-D2-C KICS-700

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/30/00
RESPONSE:
PADD# EL1, EL2, EL4, EL6-EL10, EL12, EL15, EL30,
EL31

RESPONSE TRACKING: Z26151 Z26219 Z2682 Z2953 Z3009
Z3018 Z3630 Z4346 Z4951 Z5040
Z5111 Z5728 Z6401 Z6911 Z7603
Z8129 Z9907

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FI
RESPONDER: GEORGE GRIMSHAW/661-276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/30/00
RESPONSE:
PADD# E1005, 1006, 1008, 1009, 1035, 1036, E1001, 1002, 1007, 1010 CONT
RAVES C1, C5, C7, C9 (OR C6).

RESPONSE TRACKING: Z26177 Z2936 Z3641 Z3735 Z3990
Z4346 Z4951 Z5040 Z5111 Z5728
Z6401 Z6926 Z7701 Z8303 Z9907

[PRD] DATABASE RECORD: 6600 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/07/00
INITIAL DATE: 06/13/89
ITEM NUMBER: T93D DATE LAST CHANGED: 05/30/07
SECTION: 3120 TIME LAST CHANGED: 10:33:00

REQUESTER: JSC
SUBREQUESTER: JSC/KX JSC/MV
TEST CODE: DODALS DODELS S51C04 STSALL

TRACKING NO. KING2001 L103-7 L3949 L408-2 L5916
L6401 L806-1 L901-2 L906-3 L912-2
L9903 R109-82 R2809 R2849 R9310
SHAW94

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 6600
ITEM NUMBER: T93D

1. DESCRIPTION: ORBITER LANDING & GROUND TURNAROUND
LOCATION: ORBITER LANDING AND INITIAL GROUND HANDLING

LOCATION: ORBITER LANDING AND INITIAL GROUND HANDLING
(DOD ALS/ELS)
FIELD OF VIEW:
CAMERA FORMAT: STILL/MOTION
F/L:
FPS:
FILM TYPE LOAD:
INTERVAL: AOV THRU LANDING AND CREW EGRESS
F/T:
EXP.:
TIMING: YES
PRIME REQUESTER: JSC/MV/KENNETH BROWN/281 483-3891
TECHNICAL CONTACT: JSC/SN3/GREGORY BYRNE/281 483-0500
HSFS-O/321 494-5116

REMARKS: PROVIDE PHOTOGRAPHIC (STILL AND MOTION) COVERAGE, IF AVAILABLE, OF THE APPROACH, LANDING AND INITIAL GROUND OPERATIONS UNTIL KSC PERSONNEL ARRIVE ON THE SCENE. FILM TO BE USED AS AN AID IN ANALYSIS OF ANOMALIES.
CLS WILL PROVIDE UNDEVELOPED FILM, HOWEVER, DEVELOPED PHOTOGRAPHS MAY BE PROVIDED DEPENDENT ON ALS/ELS CAPABILITIES AND OTHER COMMITMENTS.

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP FILM	1	7 WD	OPS TEAM REP JSC/PS4/PETE STANLEY

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 6600
ITEM NUMBER: T93D

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/07/00
RESPONSE TRACKING: Z2842 Z3990 Z5917 Z6401

[PRD] DATABASE RECORD: 6622 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/26/02
INITIAL DATE: 11/23/88
ITEM NUMBER: HKT93KT DATE LAST CHANGED: 01/12/07
SECTION: 3120 TIME LAST CHANGED: 07:22:20

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/B-NS JSC/KX JSC/MV KSC/NE-M7
MS185 MS222
TEST CODE: S51C04 STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. A0701-1 A106-1 DB98 KING2001 L004-12
L04-2-1 L204-7 L206-12 L303-5 L3513
L3718 L3907 L403-5 L4602 L4611
L4949 L508-5 L5546 L5914 L601-6
L611-2 L6907 L708-1 L7506 L806-1
L8106 L8505 L901-2 L912-2 L9903
MA940401 R0402-1 R109-82 R2636 R2903
R6302 R8101 R9310 RSRR126 SHAW95
PRIORITY: REQUIRED
RATIONALE: REQUIRED FOR POST-FLIGHT ASSESSMENT OF SHUTTLE PROPULSION ELEMENTS.

1. DESCRIPTION: ORBITER 16MM ONBOARD CAMERA COVERAGE OF SRB AND ET SEPARATION

PROVIDE DATA FROM BOTH OF THE 16MM ET/ORBITER UMBILICAL WELL CAMERAS THAT VIEW SRB AND ET SEPARATION. DATA IS REQUIRED WHEN CAMERAS ARE FLOWN.

PRIME REQUESTER: MSFC/TD53/TOM RIECKHOFF/256 544-7677

TECH CONTACT: JSC/SN3/GREGORY BYRNE/281 483-0500

DATA DISPOSITION:

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 6622
ITEM NUMBER: HKT93KT

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	ROLL POSITIVE	1 SET (2-16MM)	RECEIPT OF FILM +2WD	KSC/PH-H3/TOM FORD 321 861-3635
2	ROLL POSITIVE	1 SET EACH CAMERA	RECEIPT OF FILM +2WD	MSFC/TD53/TOM RIECKHOFF/ 256 544-7677
3	ROLL POSITIVE	1 SET (2-16MM)	RECEIPT OF FILM +2WD	B-NS/HOU/HS4-40/GAIL HARGROVE 281 226-5575
4*	ROLL POSITIVE	1 SET	RECEIPT OF FILM +2WD	JSC/SN3/JON DISLER 281 483-5182
5	ROLL POSITIVE	1 SET	RECEIPT OF FILM +2WD	MICHOUD ASSEMBLY FACILITY NATIONAL AERONAUTICS AND SPACE ADMINISTRATION 13800 OLD GENTILLY ROAD NEW ORLEANS, LA 70129 ATTN: DON NOAH 504 257-0105
6	DUPE NEG	1 SET	RECEIPT OF FILM +2WD	JSC/SN3/JON DISLER 281 483-5182
THE FOLLOWING PRINTS WILL BE MADE AND DISTRIBUTED BY JSC/RICHARD SLATER				
7	8X10 PRINTS	1 EA	RECEIPT OF FILM +5WD	KSC/NE-M7/TOM FORD 321 861-3635
8	8X10 PRINTS	1 EA	RECEIPT OF FILM +5WD	B-NS/HOU/HS4-40/GAIL HARGROVE 281 226-5575
9	8X10 PRINTS	1 EA	RECEIPT OF FILM +5WD	JSC/SN3/JON DISLER 281 483-5182
10	8X10 PRINTS	1 EA	RECEIPT OF FILM +2WD	MICHOUD ASSEMBLY FACILITY NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

CONTINUED

[PRD] DATABASE RECORD: 6622
ITEM NUMBER: HKT93KT

13800 OLD GENTILLY ROAD
NEW ORLEANS, LA 70129
ATTENTION: DON NOAH
504 257-0105

11	8X10 PRINTS	1 EA	RECEIPT OF FILM +5WD	JSC/MS4/MARK HOLDERMAN 281 483-1317
12	8X10 PRINTS	1 EA	RECEIPT OF FILM +5WD	JSC/SN3/JON DISLER/ 281 483-5182
13	8X10 PRINTS	1 EA	RECEIPT OF FILM +5WD	JSC/EG3/STEVE DERRY/ 281 483-6613
14	8X10 PRINTS	2 EA	RECEIPT OF FILM +5WD	JSC/MS4/ 281 483-5593

* NOTE: STILL FRAME ENLARGEMENTS TO BE SELECTED BY JSC/SN3/GREG BYRNE OR JSC/SN3/JON DISLER (EXCEPT FOR CONTINGENCY, NOT TO EXCEED 10 PRINTS).

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-C KICS-700

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/26/02
RESPONSE TRACKING: Z8130 Z8509 Z9312 Z9907

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
SUBSUPPLIER: FL102 FL10T
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/26/02
RESPONSE:

RESPONSE TRACKING: Z2903 Z3521 Z3717 Z3970 Z4602
Z4630 Z4952 Z5554 Z5912 Z6302
Z6937 Z7703 Z8101 Z8130 Z8509
Z9312 Z9907

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 6622
ITEM NUMBER: HKT93KT

[PRD] DATABASE RECORD: 6623 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/27/02
INITIAL DATE: 11/23/88
ITEM NUMBER: HKTY94T DATE LAST CHANGED: 01/12/07
SECTION: 3120 TIME LAST CHANGED: 07:24:04

REQUESTER: MSFC KSC JSC
NASA HQ
SUBREQUESTER: JSC/B-NS JSC/KX JSC/MV KSC/NE-M7
MS023 MS185 MS222
TEST CODE: S51C04 STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. A0701-1 A106-1 DB98 KING2001 L003-1
L004-12 L04-2-1 L101-1 L204-4 L206-12
L303-5 L3513 L3912 L403-5 L4602
L4611 L4949 L508-5 L5546 L5914
L611-2 L6906 L708-1 L806-1 L8505
L901-2 L912-2 L9903 MA940401 R0402-1
R109-82 R2903 R6302 R8101 R9310
RSRR126 SHAW95
PRIORITY: REQUIRED
RATIONALE: PHOTO COVERAGE IS REQUIRED.

1. DESCRIPTION: ORBITER 35MM ONBOARD CAMERA COVERAGE OF ET SEPARATION

DATA IS REQUIRED FROM THE 35MM ET/ORBITER UMBILICAL CAMERA THAT VIEWS SEPARATION. AN "A" WIND CONTACT MASTER IS REQUIRED. DATA IS REQUIRED WHEN CAMERA IS FLOWN.

PRIME REQUESTER: MSFC/TD53/TOM RIECKHOFF/256 544-7677

TECH CONTACT: JSC/SN3/GREGORY BYRNE/281 483-0500

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1*	ROLL POSITIVE	1 SET	RECEIPT OF	KSC/NE-M7/TOM FORD

CONTINUED

[PRD] DATABASE RECORD: 6623
ITEM NUMBER: HKTY94T

			FILM +2WD	321 861-3635
2	ROLL POSITIVE (A-WIND)	1	"	MSFC/TD53/TOM RIECKHOFF/ 256 544-7677 (CUT ROLL INTO SIX FRAME SEGMENTS AND SLEEVE)
3	ROLL POSITIVE	1 SET	"	JSC/SN3/JON DISLER 281 483-5182
4	"	"	"	LM-MICHOUD/ DEPT 4610/STEVEN COPSEY 504 247-3105
5*	"	"	"	B-NS/HOU/HS4-40/GAIL HARGROVE 281 226-5575
6*	8X10 PRINTS	"	RECEIPT OF FILM +5WD	KSC/NE-M7/TOM FORD 321 861-3635
7*	"	1EA	"	B-NS/HOU/HS4-40/GAIL HARGROVE 281 226-5575
8*	"	1EA	"	JSC/SN3/JON DISLER 281 483-5182
9*	8X10 PRINTS	"	"	LM-MICHOUD/ DEPT 4610/STEVEN COPSEY 504 257-3105
10*	"	"	"	JSC/MS4/MARK HOLDERMAN 281 483-1317
11*	"	"	"	JSC/SN3/JON DISLER 281 483-5182
12*	"	"	"	JSC/EG3/STEVE DERRY/ 281 483-6613

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 6623
ITEM NUMBER: HKTY94T

13	8X10	2 EA	RECEIPT OF FILM +5WD	JSC/MS4/RANDALL ADAMS/ 281 483-5593

* NOTE 1: STILL FRAME ENLARGEMENTS TO BE SELECTED BY JSC/SN3/GREG BYRNE

OR JSC/SN3/LOC/J. DISLER (EXCEPT FOR CONTINGENCY, NOT TO EXCEED 10 PRINTS).

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/27/02

RESPONSE TRACKING:	Z101-5	Z2903	Z3521	Z3950	Z4602
	Z4630	Z4952	Z5554	Z5912	Z6302
	Z6937	Z8101	Z8509	Z9312	Z9907

[PRD] DATABASE RECORD: 6918 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/14/91
INITIAL DATE: 09/19/89
ITEM NUMBER: K95X DATE LAST CHANGED: 03/20/07
SECTION: 3120 TIME LAST CHANGED: 14:20:52

REQUESTER: KSC
SUBREQUESTER: KSC/NE-M7
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. A0701-1 DB98 KING2001 L3411 L3907
L3960 R109-82 R2809
PRIORITY: REQUIRED
RATIONALE: ALTERNATE SOURCES OF PHOTOGRAPHIC ARE AVAILABLE.

1. DESCRIPTION: STILL PHOTO-EAFB
PROVIDE ENGINEERING DOCUMENTATION STILL PHOTO COVERAGE.

REMARKS: ALTHOUGH THE KSC DEBRIS TEAM TAKES PHOTOS OF SPECIFIC DEBRIS ITEMS, KSC REQUIRES A COMPLETE PHOTO DATA BASE OF ALL ORBITER LANDING STILL COVERAGE BY DFRC AND/OR EAFB PHOTOGRAPHERS. THE KSC DEBRIS TEAM REP WILL PICK UP PRINTS

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 6918
ITEM NUMBER: K95X

FROM THE PHOTO COUNTER IN HQ BLDG 4800. AFTER THE TEAM DEPARTS FOR KSC, ANY FOLLOW-UP PRINTS CAN BE SHIPPED TO:

NASA ATTN: TOM FORD, MAIL CODE: NE-M7, OSB ROOM 5203R
KSC, FL 32899 321 861-3635

PRIME REQUESTER: KSC/ME-M7/TOM FORD/321 861-3635
TECH CONTACT: KSC/NE-M7/TOM FORD/321 861-3635

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	8x10 CL PR	1	24 HRS	KSC/NE-M7/KSC DEBRIS TEAM REP ON SITE

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: XA1
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/01/91
RESPONSE TRACKING: Z3453 Z3508 Z3735

[PRD] DATABASE RECORD: 12137 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/07/00
INITIAL DATE: 07/12/88
ITEM NUMBER: TX96EKTX DATE LAST CHANGED: 03/20/07
SECTION: 3120 TIME LAST CHANGED: 14:22:10

REQUESTER: JSC DFRC
SUBREQUESTER: JSC/MV
TEST CODE: EAFB LANDNG STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. KING2001 L103-7 L104-13 L109-5 L2639
L3804 L3951 L611-2 L901-2 L912-2
L9903 R109-82 R26163 R26222 R26238
R2641 R2663 R4406 R8101 R9310

1. DESCRIPTION: PHOTO - LANDING CREW ESCAPE EAFB

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 12137
ITEM NUMBER: TX96EKTX

PROVIDE MOTION PICTURE COVERAGE WITH EXISTING CAMERAS OF THE ORBITER'S SIDE HATCH AREA DURING APPROACH AND LANDING AT THE EARLIEST POINT OF VISIBILITY THROUGH ROLLOUT. CURRENT PLANS FOR CREW ESCAPE CALL FOR JETTISON OF THE SIDE HATCH DURING A CONTROLLED GLIDE (20,000 FT TO 5000 FT) FOLLOWED BY CREW ESCAPE THROUGH THE OPENED HATCH. CAMERAS NEED NOT FOCUS ON THE HATCH ITSELF BUT ON THE SIDE OF THE ORBITER. THE MOTION PICTURE COVERAGE WILL BE USED TO ACCESS AND CHARACTERIZE THE JETTISON PROCEDURE. PHOTO COVERAGE OF THE CREW MEMBERS SHOULD ALSO BE ATTEMPTED UNTIL ALL PARACHUTES ARE ON THE GROUND.

NOTE: DFRC WILL PROVIDE TV COVERAGE ONLY.
JSC WILL PROCESS 35MM FILM ONLY.
KSC WILL PROCESS 16MM FILM ONLY.

PRIME REQUESTER: JSC/MV/KENNETH BROWN/281 483-3891

TECH CONTACT: JSC/EP5/KEITH VAN TASSEL/281 483-9053

COORDINATION: JSC/SN3/JON DISLER/281 483-5182

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP (16MM/35MM)	1	24 HRS	JSC/GP45/RICHARD SLATER 281 483-7723
2	VIDEO COMPOSITE (16MM FILM)	1	14 DAYS	DFRC/D4838 661 258-3478
3	VIDEO COMPOSITE (35MM FILM)	1	14 DAYS	DFRC/D1017/JIM ROSS 661 258-2325

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 01/07/00
RESPONSE:
SUPPORT WILL BE PER SUPPORT PLAN AS COORDINATED WITH DFRC.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 12137
ITEM NUMBER: TX96EKTX

RESPONSE TRACKING: Z26142 Z2667 Z2718 Z2724 Z2807
Z3816 Z3996 Z4404 Z6819 Z8217
Z9907

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-C KICS-700

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/07/00
RESPONSE TRACKING: Z8129 Z9907

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/07/00
RESPONSE TRACKING: Z8101 Z9312 Z9907

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FI
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/07/00
RESPONSE:

RESPONSE TRACKING: Z26177 Z3816 Z3996 Z4404 Z8303
Z9907

[PRD] DATABASE RECORD: 10401 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/30/00
INITIAL DATE: 11/22/88
ITEM NUMBER: KTX97EKTX DATE LAST CHANGED: 03/21/07
SECTION: 3120 TIME LAST CHANGED: 12:45:05

REQUESTER: KSC JSC DFRC
SUBREQUESTER: JSC/B-NS JSC/ES4 JSC/KX JSC/MV
VALO92007 VALO93001 VALOE
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 10401
ITEM NUMBER: KTX97EKTX

TRACKING NO.	A106-1	KING2001	L04-2-1	L103-7	L104-13
	L105-2	L2639	L2749	L303-5	L304-4
	L3951	L4322	L5546	L5552	L601-6
	L611-2	L7506	L806-1	L901-2	L912-2
	L9903	MK98	R0402-1	R109-82	R26163
	R26212	R26225	R2628	R2633	R2648
	R2663	R8101	R9310		

PRIORITY: MANDATORY
RATIONALE: MANDATORY LANDING SUPPORT AT EAFB

1. DESCRIPTION: PHOTO - ORBITER SINK RATE ANALYSIS AT LANDING EAFB

A MEASUREMENT OF LANDING IMPACT SINK RATE IS REQUIRED TO DETERMINE IF THE SINK RATES EXCEED THE DESIGN ALLOWABLES.
CAPTURE WILL REQUIRE A SAMPLE FILM RATE GREAT ENOUGH TO DOCUMENT A SINK RATE OF 0.1 FT/SEC FOR THE LAST 15 FEET (VERTICAL) ABOVE RUNWAY BEFORE TOUCHDOWN. SIDE-VIEWING CAMERAS SHOULD BE LOCATED AS CLOSE TO TOUCHDOWN POINT AS FEASIBLE, FOCUSING ON AND TRACKING THE ORBITER NOSE AND MAIN LANDING GEAR. THIS MAY REQUIRE A SERIES OF STATIONARY CAMERAS OR MOBILE (TRUCK-MOUNTED) CAMERA SYSTEM. IN SUPPORT OF THE ANALYSIS OF LANDING IMPACT SINK RATE, AFFTC/EDWARDS AIR FORCE BASE IS REQUESTED TO PROVIDE DATA REDUCTION FOR THE AZIMUTH AND ELEVATION DEVICES ASSOCIATED WITH THE NEW LAKE BED TRACKING MOUNTS AT EAFB. JSC REQUESTS THE BEST ESTIMATE OF TRAJECTORY TO A PRECISION OF 0.1 FT/SEC AND THE RAW (UNFILTERED), UNSMOOTHED DATA. THESE DATA ARE TO BE PROVIDED ON COMPUTER COMPATIBLE TAPE.

NOTE 1: DFRC WILL COORDINATE WITH EAFB FOR TDY SUPPORT.

NOTE 2: JSC WILL PROCESS AND DISTRIBUTE THE 35MM FILM AND SEND A COPY TO AFFTC/EDWARDS FOR DATA REDUCTION OF THE IRIG-B TIMING.

NOTE 3: KSC WILL PROCESS AND DISTRIBUTE THE 16MM FILM.

PRIME REQUESTER: JSC/ES2/CARLISLE CAMPBELL/281 483-8949

TECH CONTACT: JSC/SN3/GREGORY BYRNE/281 483-0500

COORDINATION: JSC/ES2/CARLISLE CAMPBELL/281 483-8949

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 10401
ITEM NUMBER: KTX97EKTX

JSC/SN3/JON DISLER/281 244-5182
ER/MIKE GAWEL/321 853-8118

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	LANDING + 5WD	JSC/SN3/JON DISLER 281 483-5182
2	EP	1	LANDING + 5WD ON REQUEST ONLY	B-NS/HOU/GAIL HARGROVE/HS4-40 281 226-5575
3	ORIG UP (35MM FILM ONLY)	1	ASAP	JSC/GP45/RICHARD SLATER 281 483-7723
4	ORIG UP (16MM FILM ONLY)	1	ASAP	KSC/KICS-700/ ROBBIE ROBINSON/321 853-5386
5	VIDEO COMPOSITE (16MM FILM)	1	14 DAYS	DFRC/FI/1022/ 661 276-2325
6	VIDEO COMPOSITE (35MM FILM)	1	14 DAYS	DFRC/FI/1022/JIM ROSS 661 276-2325

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 05/30/00
RESPONSE:
SUPPORT WILL BE PER SUPPORT PLAN AS COORDINATED WITH DFRC.

RESPONSE TRACKING: Z26142 Z2642 Z2666 Z2718 Z2807
Z2950 Z3996 Z4350 Z4621 Z5722
Z6012 Z6553 Z6819 Z7312 Z7911
Z8217 Z9907

SUPPLIER: KSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
SUBSUPPLIER: IT-D2-C KICS-700

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/30/00
RESPONSE TRACKING: Z8129 Z9907

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 10401
ITEM NUMBER: KTX97EKTX

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/30/00
RESPONSE TRACKING: Z2763 Z3996 Z4350 Z5554 Z7703
Z8101 Z9312 Z9907

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FI
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/30/00
RESPONSE TRACKING: Z26177 Z2651 Z2936 Z3996 Z4350
Z5554 Z5560 Z7701 Z8303 Z9907

[PRD] DATABASE RECORD: 518985 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/30/00
INITIAL DATE: 03/11/92
ITEM NUMBER: T98K DATE LAST CHANGED: 01/12/07
SECTION: 3120 TIME LAST CHANGED: 07:29:49

REQUESTER: JSC
SUBREQUESTER: JSC/B-NS JSC/ES4 JSC/KX JSC/MV
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20028S
TRACKING NO. A106-1 KING2001 L04-2-1 L203-7 L4517
L601-6 L611-2 L7506 L901-2 L912-2
L9903 R0402-1 R109-82 R8101 R9310

1. DESCRIPTION: PHOTO - ORBITER SINK RATE ANALYSIS AT LANDING-KSC

A MEASUREMENT OF LANDING IMPACT SINK RATE IS REQUIRED TO DETERMINE IF THE SINK RATES EXCEED THE DESIGN ALLOWABLES. CAPTURE WILL REQUIRE A SAMPLE FILM RATE GREAT ENOUGH TO DOCUMENT A SINK RATE OF 0.1 FT/SEC FOR THE LAST 15 FEET (VERTICAL) ABOVE RUNWAY BEFORE TOUCHDOWN. SIDE-VIEWING CAMERAS SHOULD BE LOCATED AS CLOSE TO TOUCHDOWN POINT AS FEASIBLE, FOCUSING ON AND TRACKING THE ORBITER NOSE AND MAIN LANDING GEAR. THIS MAY REQUIRE A SERIES OF STATIONARY CAMERAS OR MOBILE

CONTINUED

[PRD] DATABASE RECORD: 518985
ITEM NUMBER: T98K

(TRUCK-MOUNTED) CAMERA SYSTEM. IN SUPPORT OF THE ANALYSIS OF LANDING IMPACT SINK RATE, KSC IS REQUESTED TO PROVIDE AZIMUTH AND ELEVATION DATA AND DATA REDUCTION. JSC REQUESTS THE BEST ESTIMATE OF TRAJECTORY TO A PRECISION OF 0.1 FT/SEC AND THE RAW (UNFILTERED), UNSMOOTHED DATA. THESE DATA ARE TO BE PROVIDED ON COMPUTER COMPATIBLE TAPE.

PRIME REQUESTER: JSC/ES2/CARLISLE CAMPBELL/281 483-8949

TECHNICAL CONTACT: JSC/SN3/GREGORY BYRNE/281 483-0500
KSC/IT-D2-C/CHUCK BROWN/321 867-2090

COORDINATION: JSC/SN3/JON DISLER/281 483-5182

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	LANDING +5 WD	JSC/GP45/RICHARD SLATER/281 483-7723
2	EP	1	LANDING +5 WD ON REQUEST ONLY	B-NS/HOU/HS4-40/GAIL HARGROVE 281 226-5575

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-C KICS-700

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/30/00
RESPONSE TRACKING: Z4542 Z4708 Z5521 Z6005 Z6813
Z7603 Z8129 Z9907

[PRD] DATABASE RECORD: 10402 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/26/02
INITIAL DATE: 11/22/88
ITEM NUMBER: T99EKTX DATE LAST CHANGED: 03/21/07
SECTION: 3120 TIME LAST CHANGED: 12:45:51

REQUESTER: JSC
SUBREQUESTER: JSC/B-NS JSC/ES4 JSC/KX JSC/MV
VALO92004 VALO93001 VALOE
TEST CODE: EAFB STSALL

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

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[PRD] DATABASE RECORD: 10402
ITEM NUMBER: T99EKTX

ASSOCIATED DOC: 20026S 20028S

TRACKING NO.	A106-1	ERLSR9416	KING2001	L04-2-1	L103-7
	L104-13	L105-2	L2639	L2749	L3951
	L601-6	L611-2	L7506	L806-1	L901-2
	L912-2	L9903	R0402-1	R109-82	R26163
	R26212	R2628	R2652	R8101	R9310

PRIORITY: MANDATORY
RATIONALE: LANDING SUPPORT AT EAFB.

1. DESCRIPTION: PHOTO - RUDDER AND STEERING MANEUVERS-BRAKING SYSTEM ANALYSIS EAFB, KSC

CAMERA COVERAGE IS REQUIRED OF THE ORBITER LANDING FROM THE FRONT, REAR, AND SIDE VIEW VANTAGE POINTS NEAR THE RUNWAY. THE FRONT AND REAR VIEWS COULD BE AT THE ENDS OF THE RUNWAY TO OBSERVE THE NOSE AND MAIN LANDING GEAR TRACKING. ELEVON AND SPEED BRAKE POSITIONS WILL ALSO BE OBSERVED TO VERIFY THE LOAD RELIEF ON THE MAIN GEAR.

NOTE 1: DFRC WILL PROVIDE METRIC PHOTO.
NOTE 2: KSC JCI-VITC-2 WILL PROVIDE COVERAGE FROM THE FRONT BEFORE TOUCH DOWN AND REAR AFTER TOUCHDOWN OF THE ORBITER DURING LANDING AND ROLLOUT.

COORDINATION: JSC/ES2/CARLISLE CAMPBELL/281 483-8949
JSC/SN3/JON DISLER/281 483-5182
ER/MIKE GAWEL/321 853-8118
KSC/IT-D2-C/CHUCK BROWN/321 867-2090

TIMING: 100 PPS, IRIG B

PRIME REQUESTER: JSC/MV/KENNETH BROWN/281 483-3891

TECH CONTACT: JSC/SN3/GREGORY BYRNE/281 483-0500

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
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SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

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[PRD] DATABASE RECORD: 10402
ITEM NUMBER: T99EKTX

1	EP	1	LANDING + 3WD	JSC/SN3/JON DISLER 281 483-5182
2	EP	1	LANDING + 3WD ON REQUEST	B-NS/HOU/HS4-40/ GAIL HARGROVE/281 226-5575 ONLY
3	ORIG UP (EAFB LANDINGS ONLY) (35MM FILM ONLY)	1	ASAP	JSC/GP45/RICHARD SLATER /281 483-7723
4	ORIG UP (EAFB LANDINGS ONLY) (16MM FILM ONLY)	1	ASAP	KSC/KICS-700/ROBBIE ROBINSON 321 853-5386

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB EDO ER
XA1
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 02/26/02
RESPONSE:
SUPPORT WILL BE PER SUPPORT PLAN AS COORDINATED WITH DFRC.

RESPONSE TRACKING: Z26142 Z2642 Z2683 Z2718 Z2950
Z3047 Z3996 Z6308 Z6819 Z7705
Z8217 Z9907

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-C KICS-700

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/26/02
RESPONSE:
PADD ITEM 3EL6, EL7, EL8, EL9, EL10, EL1, EL2, EL3, EL4, EL12 AND EL15

RESPONSE TRACKING: Z26151 Z26219 Z2682 Z28101 Z2953
Z3996 Z4344 Z7603 Z8129 Z9907

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/26/02

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 10402
ITEM NUMBER: T99EKTX

RESPONSE TRACKING: Z2763 Z3996 Z7703 Z8101 Z9312
Z9907

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FI
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/26/02
RESPONSE TRACKING: Z26177 Z2651 Z2936 Z3996 Z7701
Z8303 Z9907

[PRD] DATABASE RECORD: 10427 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/30/00
INITIAL DATE: 11/22/88
ITEM NUMBER: KT100EKX DATE LAST CHANGED: 03/21/07
SECTION: 3120 TIME LAST CHANGED: 12:46:34

REQUESTER: KSC JSC
SUBREQUESTER: JSC/B-NS JSC/KX JSC/MV NE-M
VAL93001 VALE VALO92004 VALO93001
VALOE
TEST CODE: EAFB LANDNG LDROUT SLF
STSALL

ASSOCIATED DOC: 20026S 20028S
TRACKING NO. A106-1 KING2001 L103-7 L104-13 L2639
L2749 L305-3 L305-3A L3907 L3952
L4318 L4925 L507-1 L5715 L5723
L601-6 L604-1 L7506 L806-1 L901-2
L912-2 L9903 MK98 R109-82 R26237
R2628 R2641 R2643 R2648 R7704
R9310 SHAW95
PRIORITY: REQUIRED
RATIONALE: ENGINEERING PHOTO REQUIREMENT.

1. DESCRIPTION: ORBITER STARBOARD/PORT SIDE PHOTO COVERAGE
DURING LANDING/ROLLOUT EAFB, KSC
(LANDING-30 MINUTES)

INTERVAL: PRIOR TO FINAL FLARE THRU TOUCHDOWN AND ROLLOUT

CONTINUED

[PRD] DATABASE RECORD: 10427
ITEM NUMBER: KT100EKX

TIMING: IRIG B

PHOTOGRAPHIC (MOTION PICTURE) COVERAGE IS REQUIRED FROM STARBOARD AND PORT SIDES FROM PRIOR TO LANDING GEAR DEPLOYMENT & FINAL FLARE THROUGH TOUCHDOWN AND ROLLOUT TO WHEEL STOP TO AID IN DETERMINATION OF ANOMALIES

SUCH AS LANDING GEAR DEPLOYMENT. FINAL FLARE BEGINS WHEN THE ORBITER ALTITUDE IS BETWEEN 80 AND 30 FT. OVER THE RUNWAY & APPROXIMATELY 400 FT BEYOND THE THRESHOLD POINT.

AFTER MAIN GEAR TOUCHDOWN, THE FIELD OF VIEW (FOV) WILL BE THE ENTIRE ORBITER VIEW, INCLUDING THE FULL DRAG CHUTE FOR SOME VIEWS TO SHOW VEHICLE RESPONSE TO THE DRAG CHUTE DEPLOY. ALL CAMERA POSITIONS ARE TO BE SITE SURVEYED. AZIMUTH AND ELEVATION OF CAMERA MOUNT WILL BE PROVIDED. THE AZ/EL AND TIMING DATA SHOULD BE UPDATED FOR EACH FRAME. FIXED CAMERA FOCAL LENGTH REQUIRED.

FOR DRAG PARACHUTE DEPLOY AT LANDING, INCLUDE:

DFRC LANDINGS

PHOTOSONIC-35MM-100 FPS-B OR EQUIVALENT

1. END OF RUNWAY (AFT VIEW OF VEHICLE)

KSC LANDINGS

1. END OF RUNWAY - PHOTO SITE 1, 35 PS, 600MM LENS
2. END OF RUNWAY - PHOTO SITE 4, 35 PS, 600MM LENS

FILM WILL BE VIEWED IN PROJECTION MODE.

NOTE 1: DFRC WILL PROVIDE METRIC PHOTO.
NOTE 2: THE CAMERA TRACKING MOUNTS REQUIRED TO IMPLEMENT THIS REQUIREMENT AT EAFB ARE BEING SUPPLIED BY THE EAFB.

TECH CONTACT: JSC/SN3/GREGORY BYRNE/281 483-0500

PRIME REQUESTER: JSC/MV/KENNETH BROWN/281 483-3891

CONTINUED

[PRD] DATABASE RECORD: 10427
ITEM NUMBER: KT100EKX

COORDINATION: JSC/DF53/JIM CARR/281 483-4874
ER/MIKE GAWEL/321 853-8118
KSC/IT-D2-C/CHUCK BROWN/321 867-2090

DATA DISPOSITION

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	3 WD	JSC/SN3/JON DISLER 281 483-5182
2	IPA	1	5 WD	JSC/AP3
3	IPA + WP	1	3 CD	JSC/AP3
4	EP	1	3 WD	KSC/NE-M
5	EP	1	5 WD ON REQUEST ONLY	B-NS/HOU/HS4-40/GAIL HARGROVE 281 226-5575

NOTE A: KSC LANDINGS - KSC WILL PROCESS ALL PHOTOGRAPHY & DISTRIBUTE.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/30/00
RESPONSE TRACKING: Z26177 Z2807 Z2950 Z3710 Z3997
Z4346 Z4920 Z5719 Z5728 Z7704
Z7911 Z9907

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-C KICS-700

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 05/30/00
RESPONSE:
AZ/EL CAPABILITY ON KENNETO TRACKING MOUNTS (KTMS) DOES NOT
PRESENTLY EXIST.

PADD ITEM EL7 AND EL9

RESPONSE TRACKING: Z26151 Z26219 Z2653 Z3828 Z3857

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 10427
ITEM NUMBER: KT100EKX

Z4122	Z4346	Z4920	Z5521	Z5719
Z5728	Z6016	Z7406	Z7603	Z7907
Z9417	Z9907			

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: XA1
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/30/00

RESPONSE TRACKING:	Z26177	Z2936	Z3735	Z3997	Z4346
	Z4920	Z5719	Z5728	Z6926	Z7701
	Z7912	Z9907			

[PRD] DATABASE RECORD: 13985 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/07/00
INITIAL DATE: 02/06/90
ITEM NUMBER: KT101EX DATE LAST CHANGED: 03/21/07
SECTION: 3120 TIME LAST CHANGED: 12:48:53

REQUESTER:	KSC	JSC		
SUBREQUESTER:	JSC/ES34	JSC/KX	JSC/MV	KSC/NE-M7
	VAL92004	VALE		
TEST CODE:	EAFB	STSALL	WSSH	

ASSOCIATED DOC:	20026S	20027S			
TRACKING NO.	A0701-1	DB98	KING2001	L103-7	L111-15
	L2719	L3630	L3907	L3952	L4921
	L7602	L806-1	L901-2	L912-2	L9903
	R109-82	R26200	R26280	R2676	R2678
	R2722	R4208	R9310		

PRIORITY: REQUIRED
RATIONALE: BACKUP PROCESSING SUPPORT.

1. DESCRIPTION: DEVELOP AND PROCESS ENGINEERING STILL COVERAGE OF ORBITER POST LANDING DEBRIS INSPECTION.

LOCATION: EAFB, WSSH
FIELD OF VIEW:
CAMERA FORMAT: 35MM
F/L:

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 13985
ITEM NUMBER: KT101EX

FPS: STILL
FILM TYPE LOAD: COLOR
INTERVAL:
F/T:
EXP:
TIMING:
PRIME REQUESTER: KSC/NE-M7/TOM FORD/321 861-3635
TECH CONTACT: KSC/NE-M7/TOM FORD/321 861-3635

REMARKS: POST LANDING DEBRIS INSPECTION.
1 TO 2 ROLLS OF EXPOSED FILM WILL BE PROVIDED BY REQUESTER. PROCESSING TO BE PROVIDED BY PHOTO CONTRACTOR AT EAFB OR WSSH. ORIGINAL NEGATIVES WILL BE HAND CARRIED BACK TO KSC BY DEBRIS TEAM REP. FOR KSC PHOTO MASTER FILE.

THE REQUESTER WILL TAKE THESE PICTURES HIMSELF AT EAFB OR WSSH, AND NORMALLY HAND CARRY THE EXPOSED FILM BACK TO KSC FOR PROCESSING, PRINTING AND ENTERING THE NEGATIVES INTO THE MASTER FILE. IF THE DEBRIS TEAM CANNOT RETURN TO KSC IN A TIMELY MANNER THE DEBRIS TEAM WILL REQUEST DFRC TO PROCESS AND PRINT THE FILM ON LOCATION. FINISHED PRINTS WILL BE PICKED UP LOCALLY BY THE KSC DEBRIS TEAM REP.

NOTES:

1. THE TEXT OF THIS REQUIREMENT IS DUPLICATED IN KPRD, SECT. 3120,

   ITEM K5K, DBR 010064 FOR PHOTOS TAKEN AT KSC, SLF.
2. "E" COMMITS FOR WSMR/WSSH
3. "X" COMMITS FOR EAFB/DFRC
4. REQUESTER MUST OBTAIN A WSMR PHOTO PERMIT. CONTACT MR. LINDSEY AT 805 678-1523.

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQUIRED	RECIPIENT
1	8 x 10 CL PR	1	2 WD	KSC/NE-M7/TOM FORD 321 861-3635

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 13985
ITEM NUMBER: KT101EX

2 8 X 10 CL PR 1 ON REQUEST JSC/ES2/CARLISLE CAMPBELL
281 483-8949

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB WSMR
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/07/00
RESPONSE TRACKING: Z26163 Z2715 Z2957 Z3630 Z3710
Z3997 Z4237 Z4917 Z7704 Z9312
Z9907

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: XA1
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/07/00
RESPONSE TRACKING: Z2695 Z2712 Z2936 Z3508 Z3735
Z3997 Z4212 Z4948 Z7701 Z9312
Z9907

[PRD] DATABASE RECORD: 578915 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/27/07
INITIAL DATE: 12/13/04
ITEM NUMBER: HKT102EK DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 11:57:42

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: E204 GC RANGE

ASSOCIATED DOC: 20007S
TRACKING NO. A0701-1 PAGE04 PAGE07 R0412-3 R0503-2
R0504-9 R0608-5
PRIORITY: REQUIRED
RATIONALE: ENGINEERING PHOTO COVERAGE. REQUIRED FOR ER. REQUIRED FOR USER. IF IMAGERY DATA IS ACQUIRED, IT IS MANDATORY FOR KICS CONTRACTOR TO DISTRIBUTE THE DATA PER THE LISTED KICS DATA DISPOSITION.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 578915
ITEM NUMBER: HKT102EK

1. DESCRIPTION: E204 - LONG RANGE PHOTO TRACKING COVERAGE OF LAUNCH FROM SOUTH OF FLIGHT PATH

LOCATION:	PATRICK AIR FORCE BASE (PAFB) DOAMS
FIELD OF VIEW:	OVERALL SSV AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT:	35MM
F/L:	400"
FPS:	80-180 (MAXIMUM AS ALLOWED BY LIGHTING CONDITIONS)
FILM TYPE LOAD:	1000 FT
INTERVAL:	TO END OF FILM
F/T:	T
EXP.:	FIXED
TIMING:	YES, SYNCHRONIZE TO IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD) 321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251
ER/CSR-4150/WILLIAM KLEINFELDER/321 853-6886

REMARKS: 1). GROUND BASED, LONG RANGE TRACKING INSTRUMENT/ HIGH-SPEED CAMERA IS REQUIRED TO TRACK THE OVERALL SSV FROM THE SOUTH THROUGH POWERED FLIGHT UNTIL LOV FOR SRB STRUCTURAL INTEGRITY AND SSME/SRM OPERATION. CONTINUE TRACK OF ORB/ET DURING AND AFTER SRB SEPARATION.

2) IN THE EVENT OF A CATASTROPHIC ACCIDENT THIS CAMERA IS TO TRACK THE CREW CABIN.

3) THIS CAMERA IS ACTIVATED BY THE EASTERN RANGE.

4) E204/EHV204 (ER), E208/EHV208/E210/EHV210, E212/EHV212 (ER), E214/EHV214, AND E216/EHV216 SHALL PROVIDE AT LEAST THREE USEFUL VIEWS OF VEHICLE UNTIL SRB SEPARATION. THREE USEFUL VIEWS IS DEFINED AS THREE VIEWS WITH NO TWO VIEWS FROM THE SAME TRACKER.

CONTINUED

[PRD] DATABASE RECORD: 578915
ITEM NUMBER: HKT102EK

5) ER IMAGERY ISTRUMENTATION STATUS TO BE REPORTED (BY ER) AT LRR. AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

6) KICS TO PROVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

7) MAKE A MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

REF: DBR 10430 PHOTO-ZERO FRAME IDENTIFICATION
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 10634 TRACKING CAMERA AZIMUTH AND ELEVATION
REF: DBR 227597 GENERAL ENGINEERING PHOTOGRAPHIC REQUIREMENTS
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS

KICS DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	1 CD	MSFC/EV12/TOM RIECKHOFF/ 256 544-7677
2	EP	1	1 CD	JSC/KX/JON DISLER/281 483-5182
3	EP	1	1 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
4	EP	1	1 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	1 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

CONTINUED

[PRD] DATABASE RECORD: 578915
ITEM NUMBER: HKT102EK

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: CSR-3200
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/27/07
RESPONSE:

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/27/07
RESPONSE: PADD # E204

RESPONSE TRACKING: Z0412-2

[PRD] DATABASE RECORD: 581117 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/01/05
INITIAL DATE: 04/01/05
ITEM NUMBER: HKT103K DATE LAST CHANGED: 01/12/07
SECTION: 3120 TIME LAST CHANGED: 07:37:01

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/MS2 JSC/SX KSC/MK-SIO
KSC/NE-M7 KSC/PH-I MSFC/MP71 MSFC/TD53
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. A0701-1 R0505-3
PRIORITY: MANDATORY
RATIONALE: THE SSV EXTERNAL SURFACE BASELINE CONFIGURATION IMAGERY (BCI) WILL BE COMPARED TO THE ON-ORBIT IMAGERY FOR ENGINEERING ANALYSIS OF POSSIBLE SSV DEBRIS IMPACTS AND ANOMALIES.

1. DESCRIPTION: BCI - BASELINE CONFIGURATION IMAGERY OF SSV EXTERNAL SURFACE PHOTOGRAPHIC COVERAGE

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 581117
ITEM NUMBER: HKT103K

RECORD PRE-FLIGHT SSV EXTERNAL SURFACE BASELINE IMAGERY. REFERENCE BCI CHIT J5831/S052923QP FOR PHOTOGRAPHIC COVERAGE, RESOLUTION AND APPROXIMATE DISTANCE, LENS F/L AND FOV TO MEET REQUIRED DETECTABLE RESOLUTION.

THE ORBITER BASELINE IMAGERY DETECTABLE RESOLUTION PER THE BCI CHIT WILL BE:

1. 0.031 INCHES PER PIXEL TO SUPPORT THE ON-ORBIT DAMAGE DETECTION REQUIREMENT OF 0.25 INCHES.
2. 0.125 INCHES PER PIXEL TO SUPPORT THE ON-ORBIT DAMAGE DETECTION REQUIREMENT OF 1.00 INCHES.
3. 0.375 INCHES PER PIXEL TO SUPPORT THE ON-ORBIT DAMAGE DETECTION REQUIREMENT OF 3.00 INCHES.

REFERENCE BCI CHIT J5831/S052923QP FOR ET AND SRB DETECTABLE RESOLUTION.

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPWG CHAIR)/321 867-8516

TECH CONTACT: MSFC/TD53/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/SX/CINDY EVANS/281 483-0519
JSC/SX/DAN SMITH/281 483-5337

REMARKS: THE BCI WILL IMAGE THE OVERALL SSV EXTERNAL TPS SURFACE AND MOLD LINE CONFIGURATION. THE IMAGES SHALL OVERLAP THE PRECEDING FOV BY APPROXIMATELY 50% (MINIMUM 30%) TO PROVIDE TOTAL COVERAGE OF THE SSV EXTERNAL SURFACE. THE IMAGES WILL BE USED FOR ANALYSIS OF POSSIBLE SSV DEBRIS IMPACTS AND ANOMALIES.

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	DIGITAL IMAGE	A/R *	PRE-LAUNCH	KSC INTEGRATED IMAGERY SYSTEM (KIIS)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 581117
ITEM NUMBER: HKT103K

MIRRORED SERVER (MS)
FOR DISTRIBUTION TO
THE IMAGE ANALYSIS
FACILITIES

* PHOTOGRAPHY PROVIDED ON MIRRORED SERVER ACCORDING TO APPROVED SHOT LIST.

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 04/01/05
RESPONSE: PADD # BCI ITEMS E003 - E006

PRIME PLANNER FOR BCI: ADAM NEHR/321 853-5387

[PRD] DATABASE RECORD: 587820 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/03/06
INITIAL DATE: 06/27/06
ITEM NUMBER: KTX112EK DATE LAST CHANGED: 03/05/07
SECTION: 3120 TIME LAST CHANGED: 14:06:10

REQUESTER: KSC JSC DFRC
SUBREQUESTER: JSC/B-NS/HOU JSC/KX JSC/MS2 JSC/MV
KSC/IT-D2 KSC/MK-SIO KSC/NE-M7 MSFC/MP71
MSFC/TD53
TEST CODE: EAFB KSC

ASSOCIATED DOC: 20028S
TRACKING NO. A0701-1 LSR06-6-4 R0608-2 R0703-2

1. DESCRIPTION: EL204, FILM RUN OF ORBITER LANDING EOM, RTLS AND AOA FROM ACQUISITION TO LOV OR END OF FILM. RTLS OR AOA WILL REQUIRE OPERATOR TO INSTALL NEW FILM LOAD ON CAMERA AND CHANGE FRAME RATE TO 50 FPS. RECORD TIME AND AZ/EL. IN THE EVENT OF BREAKUP TRACK CREW MODULE. THIS ITEM REQUIRES RANGE TECHNICAL SERVICES (RTS-EASTERN RANGE)

CONTINUED

[PRD] DATABASE RECORD: 587820
ITEM NUMBER: KTX112EK

SUPPORT.

LOCATION: PAFB, PATRICK DOAMS
FIELD OF VIEW: ENTIRE ORBITER AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: 35MM
F/L: AS REQUIRED TO MEET FOV (NOMINALLY 400 INCH)
FPS: 50
FILM TYPE LOAD: 1000 FT
INTERVAL: START CAMERA AT AOV AND RUN THROUGH LOV OR END OF FILM.
F/T: T
EXP: SITE SPECIFIC, OPERATOR SET (NOMINALLY 2)
TIMING: YES

PRIME REQUESTER: KSC/MK-SIO ROBERT PAGE (IPWG CHAIR)/321 867-8516

TECH CONTACTS: MSFC/TD53/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/SX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS: PROVIDE PHOTO COVERAGE OF ORBITER LANDING FROM AOV THROUGH LOV OR END OF FILM TO AID IN THE DETERMINATION OF ANOMALIES. FIELD OF VIEW (FOV) WILL BE THE ENTIRE ORBITER. ALL CAMERA POSITIONS ARE TO BE SITE SURVEYED. TIMING WILL BE PROVIDED (REF LLS3100, ITEM TH1.1EKXZ, DBR 227597).

DATA DISPOSITION FOR EOM:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	1 CD	MSFC/TD53/TOM RIECKHOFF/256 544-7677
2	EP	1	1 CD	JSC/SX/JON DISLER/281 483-5182
3	EP	1	1 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
4	EP	1	1 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 587820
ITEM NUMBER: KTX112EK

DATA DISPOSITION FOR RTLS: TO BE DETERMINED REAL-TIME.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 08/04/06
RESPONSE: ER CANNOT PROVIDE AZIMUTH AND ELEVATION TO ANY
FILM PRODUCTS. SITE IS ONLY CAPABLE OF PROVIDING
THIS COVERAGE ON DAYTIME RTLS/AOA.

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)

SUBSUPPLIER: IT-D2-C
RESPONDER: CHUCK BROWN/321 867-2090
SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/03/06

[PRD] DATABASE RECORD: 587821 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/03/06
INITIAL DATE: 06/27/06
ITEM NUMBER: KTX113EK DATE LAST CHANGED: 03/16/07
SECTION: 3120 TIME LAST CHANGED: 10:06:47

REQUESTER: KSC JSC DFRC
SUBREQUESTER: JSC/B-NS/HOU JSC/KX JSC/MS2 JSC/MV
JSC/SX KSC/MK-SIO KSC/NE-M7 MSFC/MP71
MSFC/TD53
TEST CODE: EAFB KSC

ASSOCIATED DOC: 20028S
TRACKING NO. A0701-1 LSR06-6-4 R0608-2 R0703-2

1. DESCRIPTION: EL207, FILM RUN OF ORBITER LANDING EOM, RTLS AND
AOA FROM ACQUISITION TO LOV OR END OF FILM. RTLS OR AOA

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

CONTINUED

[PRD] DATABASE RECORD: 587821
ITEM NUMBER: KTX113EK

WILL REQUIRE OPERATOR TO INSTALL NEW FILM LOAD ON CAMERA AND CHANGE FRAME RATE TO 50 FPS. RECORD TIME AND AZ/EL. IN THE EVENT OF BREAKUP TRACK CREW MODULE. THIS ITEM REQUIRES RANGE TECHNICAL SERVICES (RTS-EASTERN RANGE) SUPPORT.

LOCATION: PLAYALINDA BEACH DOAMS
FIELD OF VIEW: ENTIRE ORBITER AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: 35MM
F/L: AS REQUIRED TO MEET FOV (NOMINALLY 400 INCH)
FPS: 50
FILM TYPE LOAD: 1000 FT
INTERVAL: START CAMERA AT AOV AND RUN THROUGH LOV OR END OF FILM.
F/T: T
EXP: SITE SPECIFIC, OPERATOR SET (NOMINALLY 2)
TIMING: YES

PRIME REQUESTER: KSC/MK-SIO ROBERT PAGE (IPWG CHAIR)/321 867-8516

TECH CONTACTS: MSFC/TD53/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/SX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS: PROVIDE PHOTO COVERAGE OF ORBITER LANDING FROM AOV THROUGH LOV OR END OF FILM TO AID IN THE DETERMINATION OF ANOMALIES. FIELD OF VIEW (FOV) WILL BE THE ENTIRE ORBITER. ALL CAMERA POSITIONS ARE TO BE SITE SURVEYED. TIMING WILL BE PROVIDED (REF LLS3100, ITEM TH1.1EKXZ, DBR 227597).

DATA DISPOSITION FOR EOM:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	1 CD	MSFC/TD53/TOM RIECKHOFF/256 544-7677
2	EP	1	1 CD	JSC/SX/JON DISLER/281 483-5182
3	EP	1	BY REQ	JSC/BOEING/HS4-40/GAIL HARGROVE/

CONTINUED

[PRD] DATABASE RECORD: 587821
ITEM NUMBER: KTX113EK

				281 226-5575 (ON REQUEST ONLY)
4	EP	1	1 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

DATA DISPOSITION FOR RTLS: TO BE DETERMINED REAL-TIME.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 08/04/06
RESPONSE: ER CANNOT PROVIDE AZIMUTH AND ELEVATION TO ANY
FILM PRODUCTS. SITE IS ONLY CAPABLE OF PROVIDING
THIS COVERAGE ON DAYTIME RTLS/AOA.

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)

SUBSUPPLIER: IT-D2-C
RESPONDER: CHUCK BROWN/321 867-2090
SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/03/06

[PRD] DATABASE RECORD: 587822 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/03/06
INITIAL DATE: 06/27/06
ITEM NUMBER: KTX114EK DATE LAST CHANGED: 03/16/07
SECTION: 3120 TIME LAST CHANGED: 10:07:43

REQUESTER:	KSC	JSC		DFRC
SUBREQUESTER:	JSC/B-NS/HOU	JSC/KX	JSC/MS2	JSC/MV
	JSC/SX	KSC/IT-D2	KSC/MK-SIO	KSC/NE-M7
	MSFC/MP71	MSFC/TD53		
TEST CODE:	EAFB	KSC		

ASSOCIATED DOC: 20028S

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 587822
ITEM NUMBER: KTX114EK

TRACKING NO. A0701-1 LSR06-6-4 R0608-2 R0703-2

1. DESCRIPTION: EL212, FILM RUN OF ORBITER LANDING EOM, RTLS AND AOA FROM ACQUISITION TO LOV OR END OF FILM. RTLS OR AOA WILL REQUIRE OPERATOR TO INSTALL NEW FILM LOAD ON CAMERA AND CHANGE FRAME RATE TO 50 FPS. RECORD TIME AND AZ/EL. IN THE EVENT OF BREAKUP TRACK CREW MODULE. THIS ITEM REQUIRES RANGE TECHNICAL SERVICES (RTS-EASTERN RANGE) SUPPORT.

LOCATION: UCS-23, ATOTS
FIELD OF VIEW: ENTIRE ORBITER AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: 35MM
F/L: AS REQUIRED TO MEET FOV (NOMINALLY 400 INCH)
FPS: 50
FILM TYPE LOAD: 1000 FT
INTERVAL: START CAMERA AT AOV AND RUN THROUGH LOV OR END OF FILM.
F/T: T
EXP: SITE SPECIFIC, OPERATOR SET (NOMINALLY 2)
TIMING: YES

PRIME REQUESTER: KSC/MK-SIO ROBERT PAGE (IPWG CHAIR)/321 867-8516

TECH CONTACTS: MSFC/TD53/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/SX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS: PROVIDE PHOTO COVERAGE OF ORBITER LANDING FROM AOV THROUGH LOV OR END OF FILM TO AID IN THE DETERMINATION OF ANOMALIES. FIELD OF VIEW (FOV) WILL BE THE ENTIRE ORBITER. ALL CAMERA POSITIONS ARE TO BE SITE SURVEYED. TIMING WILL BE PROVIDED (REF LLS3100, ITEM TH1.1EKXZ, DBR 227597).

DATA DISPOSITION FOR EOM:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS

CONTINUED

[PRD] DATABASE RECORD: 587822
ITEM NUMBER: KTX114EK

1	EP	1	1 CD	MSFC/TD53/TOM RIECKHOFF/256 544-7677
2	EP	1	1 CD	JSC/SX/JON DISLER/281 483-5182
3	EP	1	1 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
4	EP	1	1 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

DATA DISPOSITION FOR RTLS: TO BE DETERMINED REAL-TIME.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 08/04/06
RESPONSE: ER CANNOT PROVIDE AZIMUTH AND ELEVATION TO ANY FILM PRODUCTS. SITE IS ONLY CAPABLE OF PROVIDING THIS COVERAGE ON DAYTIME RTLS/AOA.

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)

SUBSUPPLIER: IT-D2-C
RESPONDER: CHUCK BROWN/321 867-2090
SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/03/06

[PRD] DATABASE RECORD: 587823
DOCUMENT ID: LLS
ITEM NUMBER: KTX115EK
SECTION: 3120

REQUIREMENT STATUS: APPROVED
APPROVAL DATE: 08/03/06
INITIAL DATE: 06/27/06
DATE LAST CHANGED: 03/16/07
TIME LAST CHANGED: 10:07:57

REQUESTER:	KSC	JSC		DFRC	
SUBREQUESTER:	JSC/B-NS/HOU	JSC/KX	JSC/MS2	JSC/MV	
	JSC/SX	KSC/MK-SIO	KSC/NE-M7	MSFC/MP71	

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 587823
ITEM NUMBER: KTX115EK

MSFC/TD53
TEST CODE: EAFB KSC

ASSOCIATED DOC: 20028S
TRACKING NO. A0701-1 LSR06-6-4 R0608-2 R0703-2

1. DESCRIPTION: EL215, FILM RUN OF ORBITER LANDING EOM, RTLS AND AOA FROM ACQUISITION TO LOV OR END OF FILM. RTLS OR AOA WILL REQUIRE OPERATOR TO INSTALL NEW FILM LOAD ON CAMERA AND CHANGE FRAME RATE TO 50 FPS. RECORD TIME AND AZ/EL. IN THE EVENT OF BREAKUP TRACK CREW MODULE. THIS ITEM REQUIRES RANGE TECHNICAL SERVICES (RTS-EASTERN RANGE) SUPPORT.

LOCATION: UCS-11, ATOTS
FIELD OF VIEW: ENTIRE ORBITER AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: 35MM
F/L: AS REQUIRED TO MEET FOV (NOMINALLY 400 INCH)
FPS: 50
FILM TYPE LOAD: 1000 FT
INTERVAL: START CAMERA AT AOV AND RUN THROUGH LOV OR END OF FILM.
F/T: T
EXP: SITE SPECIFIC, OPERATOR SET (NOMINALLY 2)
TIMING: YES

PRIME REQUESTER: KSC/MK-SIO ROBERT PAGE (IPWG CHAIR)/321 867-8516

TECH CONTACTS: MSFC/TD53/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/SX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS: PROVIDE PHOTO COVERAGE OF ORBITER LANDING FROM AOV THROUGH LOV OR END OF FILM TO AID IN THE DETERMINATION OF ANOMALIES. FIELD OF VIEW (FOV) WILL BE THE ENTIRE ORBITER. ALL CAMERA POSITIONS ARE TO BE SITE SURVEYED. TIMING WILL BE PROVIDED (REF LLS3100, ITEM TH1.1EKXZ, DBR 227597).

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

CONTINUED

[PRD] DATABASE RECORD: 587823
ITEM NUMBER: KTX115EK

DATA DISPOSITION FOR EOM:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	1 CD	MSFC/TD53/TOM RIECKHOFF/256 544-7677
2	EP	1	1 CD	JSC/SX/JON DISLER/281 483-5182
3	EP	1	BY REQUEST	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
4	EP	1	1 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

DATA DISPOSITION FOR RTLS: TO BE DETERMINED REAL-TIME.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 08/04/06
RESPONSE: ER CANNOT PROVIDE AZIMUTH AND ELEVATION TO ANY
FILM PRODUCTS. SITE IS ONLY CAPABLE OF PROVIDING THIS COVERAGE
ON DAYTIME RTLS/AOA.

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)

SUBSUPPLIER: IT-D2-C
RESPONDER: CHUCK BROWN/321 867-2090
SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/03/06

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 588962 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/19/06
INITIAL DATE: 08/19/06
ITEM NUMBER: HKT116K DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 10:39:59

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: EHV053 GC RANGE

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. A0701-1 PAGE07 R0608-5
PRIORITY: MANDATORY
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE.

1. DESCRIPTION: EHV053 - FALLBACK AND QUICK-LOOK IMAGERY
ASSOCIATED WITH E053 AND E055

LOCATION: PAD PERIMETER (39-1)
FIELD OF VIEW: CENTERED SSV, CLOCKED 90 DEGREES TO ENCOMPASS HEIGHT OF VEHICLE WITH HORIZONTAL SCAN OF CAMERA AS SPECIFIED IN REMARKS FIELD.
CAMERA FORMAT: HDTV (4-2-2)
RESOLUTION: 1280 X 720 MINIMUM
DATA DEL. TIME: MAXIMUM OF 2 HOURS
F/L: AS REQUIRED TO MEET FOV REQUIREMENT
FPS: MINIMUM OF 60 FRAMES PER SECOND, PROGRESSIVE SCAN.
INTERVAL: T-10 SECONDS (OR HBOI INITIATION) THROUGH CALL FOR "THROTTLE UP" (APPROX T+70 SECONDS)
F/T: T
TIMING: YES

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN281 483-1251

REMARKS: 1) HDTV COVERAGE TO ENCOMPASS FIELD OF VIEW OF BOTH E053 AND E055 PRIMARY FILM CAMERAS FOR FALLBACK ANALYSIS AND QUICKLOOK ASSESSMENT. HDTV CAMERA OPERATING AT A TRUE

CONTINUED

[PRD] DATABASE RECORD: 588962
ITEM NUMBER: HKT116K

60 FPS. FEED OF HD-SDI TO THE CICE CONSOLE IN LCC FR2.

2) RECORDING OF HD-SDI UTILIZING WAVELET COMPRESSION PER IPI DIRECTION. IRIG-B TIMING TO BE PLACED IN THE HEADER (ANCILLARY DATA) AREA OF EACH FRAME.

3) COMBINATION OF CAMERAS E052, E053, E054, E055, E057, E059, EHV052, EHV053, AND EHV057 MUST PROVIDE 360 DEGREE COVERAGE OF THE SSV FROM CAMERA LOCATIONS 39-1, 39-2, AND 39-6 DURING THE FIRST 1200 FEET ASCENT.

4) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

5) KICS TO PROVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 10634 TRACKING CAMERA AZIMUTH AND ELEVATION
REF: DBR 10638 TIMING INFORMATION ON VIDEO
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS

KICS DATA DISPOSTION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	DIGITAL FILE	1	BY REQ	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
2	DIGITAL FILE	1	1 HR	KSC INTEGRATED IMAGERY SYSTEM (KIIS) MIRRORED SERVER (MS) FOR DISTRIBUTION TO THE IMAGE ANALYSIS FACILITIES
	OR			
3	DIGITAL FILE	1	1 HR	MSFC/EV12/TOM RIECKHOFF/ 256 544-7677

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 588962
ITEM NUMBER: HKT116K

4	DIGITAL FILE	1	1 HR	JSC/KX/JON DISLER/281 483-5182
5	DIGITAL FILE	1	1 HR	KSC/NE-M7/TOM FORD/321 861-3635

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/19/06

[PRD] DATABASE RECORD: 588897 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/26/07
INITIAL DATE: 08/17/06
ITEM NUMBER: HKT117K DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 10:39:11

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: EHV052 GC RANGE

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. A0701-1 PAGE07 R0608-5
PRIORITY: MANDATORY
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE.

1. DESCRIPTION: EHV052 - FALLBACK AND QUICK-LOOK IMAGERY
ASSOCIATED WITH E052 AND E054

LOCATION:	PAD PERIMETER (39-2)
FIELD OF VIEW:	CENTERED ON SSV, CLOCKED 90 DEGREES TO ENCOMPASS HEIGHT OF VEHICLE WITH HORIZONTAL SCAN OF CAMERA AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT:	HDTV (4-2-2)
RESOLUTION:	1280 X 720 MINIMUM
DATA DELIVERY TIME:	MAXIMUM OF 2 HOURS
F/L:	AS REQUIRED TO MEET FOV REQUIREMENT
FPS:	MINIMUM OF 60 FRAMES PER SECOND, PROGRSSIVE SCAN.
INTERVAL:	T-10 SECONDS (OR HBOI INITIATION) THROUGH CALL FOR

CONTINUED

[PRD] DATABASE RECORD: 588897
ITEM NUMBER: HKT117K

"THROTTLE UP" (APPROX T+70 SECONDS)
F/T: T
TIMING: YES

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACT: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS:

1) HDTV COVERAGE TO ENCOMPASS FIELD OF VIEW OF BOTH E052 AND E054 PRIMARY FILM CAMERAS FOR FALLBACK ANLAYSIS AND QUICKLOOK ASSESSMENT. HDTV CAMERA OPERATING AT A TRUE 60 FPS. FEED OF HD-SDI TO CICE CONSOLE IN LCC FR2.

2) RECORDING OF HD-SDI UTILIZING WAVELET COMPRESSION PER IPI DIRECTION. IRIG-B TIMING TO BE PLACED IN THE HEADER (ANCILLARY DATA) AREA OF EACH FRAME.

3) ASSOCIATED WITH THIS CAMERA IS AN ANALOG NTSC VIDEO INPUT INTO THE LCC OTV DISTRIBUTION SYSTEM AS OTV-041/141. OTHER NTSC RECORDING REQUIREMENTS MAY APPLY.

4) A COMBINATION OF CAMERAS E052, E053, E054, E055, E057, E059, EHV052, EHV053, AND EHV057 MUST PROVIDE 360 DEGREE COVERAGE OF THE SSV FROM CAMERA LOCATIONS 39-1, 39-2, AND 39-6 DURING THE FRIST 1200 FEET ASCENT.

5) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

6) PROVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

CONTINUED

[PRD] DATABASE RECORD: 588897
ITEM NUMBER: HKT117K

REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANLAYSIS
REF: DBR 10634 TRACKING CAMERA AZIMUTH AND ELEVATION
REF: DBR 10638 TIMING INFORMATION ON VIDEO
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARK
1	DIGITAL FILE	1	BY REQ	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
2	DIGITAL FILE	1	1 HR	KSC INTEGRATED IMAGERY SYSTEM (KIIS) MIRRORED SERVER (MS) FOR DISTRIBUTION TO THE IMAGE ANALYSIS FACILITIES
	OR			
3	DIGITAL FILE	1	1 HR	MSFC/EV12/TOM RIECKHOFF/256 544-7677
4	DIGITAL FILE	1	1 HR	JSC/KX/JON DISLER/281 483-5182
5	DIGITAL FILE	1	1 HR	KSC/NE-M7/TOM FORD/321 861-3635

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/26/07
RESPONSE: EHV052

[PRD] DATABASE RECORD: 588902 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/17/06
INITIAL DATE: 08/17/06
ITEM NUMBER: HKT118K DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 10:41:21

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 588902
ITEM NUMBER: HKT118K

	KSC/NE-M7	MSFC/EV12	MSFC/MP71
TEST CODE:	EHV057	GC RANGE	

ASSOCIATED DOC: 20007S 20014S
TRACKING NO. A0701-1 PAGE07 R0608-5
PRIORITY: MANDATORY
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE.

1. DESCRIPTION: EHV057 - FALLBACK AND QUICK-LOOK IMAGERY ASSOCIATED WITH E057 AND E059

LOCATION:	PAD PERIMETER (39-6)
FIELD OF VIEW:	CENTERED ON SSV, CLOCKED 90 DEGREES TO ENCOMPASS HEIGHT OF VEHICLE WITH HORIZONTAL SCAN OF CAMERA AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT:	HDTV (4-2-2)
RESOLUTION:	1280 X 720 MINIMUM
DATA DELIVERY TIME:	MAXIMUM OF 2 HOURS
F/L:	AS REQUIRED TO MEET FOV REQUIREMENT
FPS:	MINIMUM OF 60 FRAMES PER SECOND, PROGRESSIVE SCAN.
INTERVAL:	T-10 SECONDS (OR HBOI INITIATION) THROUGH CALL FOR "THROTTLE UP"
F/T:	T
TIMING:	YES

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACT: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS:

1) HDTV COVERAGE TO ENCOMPASS FIELD OF VIEW OF BOTH E057 AND E059 PRIMARY FILM CAMERAS FOR FALLBACK ANLAYSIS AND QUICKLOOK ASSESSMENT. HDTV CAMERA OPERATING AT A TRUE 60 FPS. FEED OF HD-SDI TO CICE CONSOLE IN LCC FR2.

CONTINUED

[PRD] DATABASE RECORD: 588902
ITEM NUMBER: HKT118K

2) RECORDING OF HD-SDI UTILIZING WAVELET COMPRESSION PER IPI DIRECTION. IRIG-B TIMING TO BE PLACED IN THE HEADER (ANCILLARY DATA) AREA OF EACH FRAME.

3) ASSOCIATED WITH THIS CAMERA IS AN ANALOG NTSC VIDEO INPUT INTO THE LCC OTV DISTRIBUTION SYSTEM AS OTV-041/141. OTHER NTSC RECORDING REQUIREMENTS MAY APPLY.

4) A COMBINATION OF CAMERAS E052, E053, E054, E055, E057, E059, EHV052, EHV053, AND EHV057 MUST PROVIDE 360 DEGREE COVERAGE OF THE SSV FROM CAMERA LOCATIONS 39-1, 39-2, AND 39-6 DURING THE FRIST 1200 FEET ASCENT.

5) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE SOOO7 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING SOOO7 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

6) KICS TO PROVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANLAYSIS
REF: DBR 10634 TRACKING CAMERA AZIMUTH AND ELEVATION
REF: DBR 10638 TIMING INFORMATION ON VIDEO
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARK
1	DIGITAL FILE	1	BY REQ	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
2	DIGITAL FILE	1	1 HR	KSC INTEGRATED IMAGERY SYSTEM (KIIS) MIRRORED SERVER (MS) FOR DISTRIBUTION TO THE IMAGE ANALYSIS FACILITIES

OR

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 588902
ITEM NUMBER: HKT118K

3	DIGITAL FILE	1	1 HR	MSFC/EV12/TOM RIECKHOFF/256 544-7677
4	DIGITAL FILE	1	1 HR	JSC/KX/JON DISLER/281 483-5182
5	DIGITAL FILE	1	1 HR	KSC/NE-M7/TOM FORD/321 861-3635

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/17/06
RESPONSE: EHV057

[PRD] DATABASE RECORD: 588919 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/01/07
INITIAL DATE: 08/17/06
ITEM NUMBER: HKT119EK DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 12:04:07

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7
TEST CODE: ESV215 GC RANGE

ASSOCIATED DOC: 20007S
TRACKING NO. A0701-1 PAGE07 R0608-5
PRIORITY: REQUIRED
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE. REQUIRED FOR ER. REQUIRED FOR USER. IF IMAGERY DATA IS ACQUIRED, IT IS MANDATORY FOR THE KICS CONTRACTOR TO DISTRIBUTE THE DATA PER THE LISTED KICS DATA DISPOSITION.

1. DESCRIPTION: ESV215/EHV215 - FALLBACK AND QUICK-LOOK IMAGERY ASSOCIATED WITH E215

LOCATION: UCS-11
FIELD OF VIEW: OVERALL SSV AS SPECIFIED IN REMARKS FIELD. ER DETERMINES CLOCKING.
CAMERA FORMAT: HDTV (4-2-2) OR SDTV (ANALOG OR DIGITAL)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 588919
ITEM NUMBER: HKT119EK

RESOLUTION:	HDTV OR SDTV (ANALOG OR DIGITAL)
F/L:	60 INCH
FPS:	MIMIMUM OF 60 FRAMES PER SECOND, PROGRESSIVE SCAN FOR HDTV OR 29.97 FPS FOR SDTV (DIGITAL OR ANALOG)
INTERVAL:	T-7 SECONDS TO CALL FOR "NEGATIVE RETURN" (APPROX T+4 MINUTES)
F/T:	T
TIMING:	YES

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251
ER/CSR-4150/WILLIAM KLEINFELDER/321 853-6886

REMARKS:

1). GROUND BASED, LONG RANGE TRACKING INSTRUMENT/HIGH-SPEED CAMERA IS REQUIRED TO TRACK THE FORWARD SSV AND TRANSITION TO OVERALL SSV AS VIEW ALLOWS FROM THE NORTH THROUGH POWERED FLIGHT UNTIL LOV FOR SRB STRUCTURAL INTEGRITY AND SSME/SRM OPERATION. AFTER SRB SEPARATION, TRACK NORTHERN SRB.

2). IN THE EVENT OF A CATASTROPHIC ACCIDENT THIS CAMERA IS TO TRACK THRUSTING BODIES PER EASTERN RANGE PROCEDURES.

3). THIS CAMERA IS ACTIVATED BY THE EASTERN RANGE.

4). E207/EHV207 (ER), E211/EHV211, E215/EHV215 (ER), AND E217/EHV217 SHALL PROVIDE AT LEAST THREE USEFUL VIEWS OF VEHICLE UNTIL SRB SEPARATION. THREE USEFUL VIEWS IS DEFINED AS THREE VIEWS WITH NO TWO VIEWS FROM THE SAME TRACKER.

5). ER IMAGERY INSTRUMENTATION STATUS TO BE REPORTED (BY ER) AT LRR. AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

CONTINUED

[PRD] DATABASE RECORD: 588919
ITEM NUMBER: HKT119EK

6) MINIMUM REQUIREMENT FOR RETURN TO FLIGHT IS NTSC VIDEO. RECORD ON BEST FORMAT AVAILABLE. IF ANALOG RECORDED, BETA SP IS PREFERRED WITH IRIIG-B TIMING ON AUDIO CHANNEL #2. IF DIGITALLY RECORDED, WAVELET COMPRESSION IS PREFERRED WITH IRIG-B TIMING TO BE PLACED IN THE HEADER (ANCIILLARY DATA) AREA OF EACH FRAME. HDTV WITH WAVELET COMPRESSION IS A LONG TERM GOAL. IF VIDEO IS SDTV (ANALOG OR DIGITAL) THEN LABEL CAMERA AS ESV215. IF VIDEO IS HDTV THEN LABEL CAMERA AS EHV215.

7) KICS TO PROVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

REF: DBR 10353 VIDEO COMPOSITE TAPE (LAUNCH)
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 10634 TRACKING CAMERA AZIMUTH AND ELEVATION
REF: DBR 10638 TIMING INFORMATION ON VIDEO
REF: DBR 13730 KICS-700 VIDEO OF TRACKING FILM ITEMS
REF: DBR 16155 UMATIC OR MII DUBS
REF: DBR 16832 PROVIDE VIDEO COVERAGE OF LAUNCH FROM TRACKING TELESCOPES UTILIZED FOR PHOTO COVERAGE
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS

KICS DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	DIGITAL FILE	1	BY REQ	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
2	DIGITAL FILE	1	1 HR	KSC INTEGRATED IMAGERY SYSTEM (KIIS) MIRRORED SERVER (MS) FOR DISTRIBUTION TO THE IMAGE ANALYSIS FACILITIES
OR				
3	DIGITAL FILE	1	1 HR	MSFC/EV12/TOM RIECKHOFF/ 256 544-7677

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 588919
ITEM NUMBER: HKT119EK

4	DIGITAL FILE	1	1 HR	JSC/KX/JON DISLER/281 483-5182
5	DIGITAL FILE	1	1 HR	KSC/NE-M7/TOM FORD/321 861-3635
6	DIGITAL FILE	1	1 HR	KSC/NE-M7/TOM FORD/321 861-3635

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/01/07

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/01/07

[PRD] DATABASE RECORD: 588937 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/27/07
INITIAL DATE: 08/18/06
ITEM NUMBER: HKT120EK DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 11:58:40

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: EHV207 GC RANGE

ASSOCIATED DOC: 20007S
TRACKING NO. A0701-1 PAGE07 R0608-5

1. DESCRIPTION: EHV207 - FALLBACK AND QUICK-LOOK IMAGERY
ASSOCIATED WIH E207

LOCATION: PLAYALINDA BEACH DOAMS
FIELD OF VIEW: REAR OF ORB AND BODY FLAP, THEN ORB/ET DURING & AFTER SRB SEPARATION AS SPECIFIED IN REMARKS FIELD. EASTERM RANGE (ER) DETERMINES CLOCKING.
CAMERA FORMAT: HDTV (4-2-2)

CONTINUED

[PRD] DATABASE RECORD: 588937
ITEM NUMBER: HKT120EK

RESOLUTION:	HDTV
F/L:	200 INCH
FPS:	MINIMUM OF 60 FRAMES PER SECOND, PROGRESSIVE SCAN
INTERVAL:	T-7 SECONDS TO CALL FOR "NEGATIVE RETURN" (APPROX T+4 MINUTES)
F/T:	T
TIMING:	YES

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251
ER/CSR-4150/WILLIAM KLEINFELDER/321 853-6886

REMARKS: 1). GROUND BASED, LONG RANGE TRACKING INSTRUMENT CAMERA IS REQUIRED TO TRACK THE SSV FROM THE NORTH THROUGH POWERED FLIGHT UNTIL LOV FOR SRB STRUCTURAL INTEGRITY AND SSME/SRM OPERATION. PRIMARY FOV IS REAR OF ORB AND BODY FLAP, TRANSITIONING TO ENTIRE VEHICLE AS VIEW PERMITS. CONTINUE TO TRACK OF ORB/ET DURING AND AFTER SRB SEPARATION.

2). IN THE EVENT OF A CATASTROPHIC ACCIDENT FOR THIS CAMERA IS TO TRACK THE CREW CABIN.

3). THIS CAMERA IS ACTIVATED BY THE EASTERN RANGE.

4). E207/EHV207 (ER), E211/EHV211, E215/EHV215 (ER), AND E217/EHV217 SHALL PROVIDE A LEAST THREE USEFUL VIEWS OF VEHICLE UNTIL SRB SEPARATION. THREE USEFUL VIEWS IS DEFINED AS THREE VIEWS WITH NO TWO VIEWS FROM THE SAME TRACKER.

5). ER IMAGERY INSTRUMENTATION STATUS TO BE REPORTED (BY ER) AT LRR. AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE

CONTINUED

[PRD] DATABASE RECORD: 588937
ITEM NUMBER: HKT120EK

NTD.

6). KICS TO PROVIDE A GPS LOCATION SURVEY OF CAMERA.
PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

REF: DBR 10353 VIDEO COMPOSITE TAPE (LAUNCH)
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 10634 TRACKING CAMERA AZIMUTH AND ELEVATION
REF: DBR 10638 TIMING INFORMATION ON VIDEO
REF: DBR 13730 KICS-700 VIDEO OF TRACKING FILM ITEMS
REF: DBR 16155 UMATIC OR MII DUBS
REF: DBR 16832 PROVIDE VIDEO COVERAGE OF LAUNCH FROM TRACKING TELESCOPES UTILIZED FOR PHOTO COVERAGE
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS

KICS DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	DIGITAL FILE	1	BY REQ	JSC/BOEING/HS4-40/GAIL HARGROVE 281 226-5575 (ON REQUEST ONLY)
2	DIGITAL FILE	1	1 HR	KSC INTEGRATED IMAGERY SYSTEM (KIIS) MIRRORED SERVER (MS) FOR DISTRIBUTION TO THE IMAGE ANALYSIS FACILITIES
3	DIGITAL FILE	1	1 HR	MSFC/EV12/TOM RIECKHOFF/ 256 544-7677
4	DIGITAL FILE	1	1 HR	JSC/KX/JON DISLER/281 483-5182
5	DIGITAL FILE	1	1 HR	KSC/NE-M7/TOM FORD/321 861-3635

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/27/07

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 588937
ITEM NUMBER: HKT120EK

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/27/07

[PRD] DATABASE RECORD: 588938 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/01/07
INITIAL DATE: 08/18/06
ITEM NUMBER: HKT121EK DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 12:09:36

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MFSC/EV12 MSFC/MP71
TEST CODE: EHV307 GC RANGE

ASSOCIATED DOC: 20007S
TRACKING NO. A0701-1 PAGE07 R0608-5
PRIORITY: REQUIRED
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE. REQUIRED FOR ER. REQUIRED FOR USER. IF IMAGERY DATA IS ACQUIRED, IT IT MANDATORY FOR THE KICS CONTRACTOR TO DISTRIBUTE THE DATA PER THE LISTED KICS DATA DISPOSITION.

1. DESCRIPTION: EHV307 - FALLBACK AND QUICK-LOOK IMAGERY
ASSOCIATED WIH E207

LOCATION: PLAYALINDA BEACH DOAMS
FIELD OF VIEW: REAR OF ORB AND BODY FLAP, THEN ORB/ET DURING & AFTER SRB SEPARATION AS SPECIFIED IN REMARKS FIELD. EASTERM RANGE (ER) DETERMINES CLOCKING.
CAMERA FORMAT: HDTV
RESOLUTION: HDTV
F/L: 100 INCH
FPS: MINIMUM OF 60 FRAMES PER SECOND, PROGRESSIVE SCAN
INTERVAL: T-7 SECONDS TO CALL FOR "NEGATIVE RETURN" (APPROX T+4 MINUTES)
F/T: T
TIMING: YES

CONTINUED

[PRD] DATABASE RECORD: 588938
ITEM NUMBER: HKT121EK

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251
ER/CSR-4150/WILLIAM KLEINFELDER/321 853-6886

REMARKS:

1) GROUND BASED, LONG RANGE TRACKING INSTRUMENT CAMERA IS REQUIRED TO TRACK THE SSV FROM THE NORTH THROUGH POWERED FLIGHT UNTIL LOV FOR SRB STRUCTURAL INTEGRITY AND SSME/SRM OPERATION. PRIMARY FOV IS REAR OF ORB AND BODY FLAP, TRANSITIONING TO ENTIRE VEHICLE AS VIEW PERMITS. CONTINUE TO TRACK OF ORB/ET DURING AND AFTER SRB SEPARATION.

2) IN THE EVENT OF A CATASTROPHIC ACCIDENT FOR THIS CAMERA IS TO TRACK THE CREW CABIN.

3) THIS CAMERA IS ACTIVATED BY THE EASTERN RANGE.

4) ER IMAGERY INSTRUMENTATION STATUS TO BE REPORTED (BY ER) AT LRR. AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

5) RECORD ON BEST FORMAT AVAILABLE. HD DVCPRO ACCEPTABLE. WAVELET COMPRESSION IS PREFERRED WITH IRIG-B TO BE PLACED IN THE HEADER (ANCILLARY DATA) AREA OF EACH FRAME. HDTV WITH WAVELET COMPRESSION IS A LONG TERM GOAL.

6) KICS TO PROVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

7) ORIGINAL FOOTAGE IS IN HD DVCPRO. ITS DELIVERY TO THE LABS WILL BE A CONVERSION TO QUVIS. THE ORIGINAL HD

CONTINUED

[PRD] DATABASE RECORD: 588938
ITEM NUMBER: HKT121EK

DVCPRO WILL BE MADE AVAILABLE TO THE KSC IAF AS REQUESTED. THE ORIGINAL HD DVCPRO WILL BE RETURNED TO THE USAF POST LANDING.

REF: DBR 10353 VIDEO COMPOSITE TAPE (LAUNCH)
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 10634 TRACKING CAMERA AZIMUTH AND ELEVATION
REF: DBR 10638 TIMING INFORMATION ON VIDEO
REF: DBR 13730 KICS-700 VIDEO OF TRACKING FILM ITEMS
REF: DBR 16155 UMATIC OR MII DUBS
REF: DBR 16832 PROVIDE VIDEO COVERAGE OF LAUNCH FROM TRACKING TELESCOPES UTILIZED FOR PHOTO COVERAGE
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS

KICS DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	DIGITAL FILE	1	BY REQ	JSC/BOEING/HS4-40/GAIL HARGROVE 281 226-5575 (ON REQUEST ONLY)
2	DIGITAL FILE	1	1 HR	KSC INTEGRATED IMAGERY SYSTEM (KIIS) MIRRORED SERVER (MS) FOR DISTRIBUTION TO THE IMAGE ANALYSIS FACILITIES
3	DIGITAL FILE	1	1 HR	MSFC/EV12/TOM RIECKHOFF/ 256 544-7677
4	DIGITAL FILE	1	1 HR	JSC/KX/JON DISLER/281 483-5182
5	DIGITAL FILE	1	1 HR	KSC/NE-M7/TOM FORD/321 861-3535

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: CSR-4150
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/01/07

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 588938
ITEM NUMBER: HKT121EK

SUBSUPPLIER: KICS-700
RESPONDER: CHUCK BROWN/321 867-2090

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/01/07

[PRD] DATABASE RECORD: 588939 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/01/07
INITIAL DATE: 08/18/06
ITEM NUMBER: HKT122K DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 12:05:24

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: EHV217 GC RANGE

ASSOCIATED DOC: 20007S
TRACKING NO. A0701-1 PAGE07 R0608-5
PRIORITY: MANDATORY
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE.

1. DESCRIPTION: EHV217 - FALLBACK AND QUICK-LOOK IMAGERY
ASSOCIATED WITH E217

LOCATION: APOLLO BEACH
FIELD OF VIEW: OVERALL SSV AS SPECIFIED IN REMARKS FIELD.
STANDARD CLOCKING.
CAMERA FORMAT: HDTV (4-2-2)
RESOLUTION: 1280 X 720 MINIMUM
DATA DEL TIME: MAXIMUM OF 2 HOURS
F/L: AS REQUIRED TO MEET FOV REQUIREMENT (NOMINALLY 200")
FPS: MINIMUM OF 60 FRAMES PER SECOND, PROGRESSIVE SCAN.
INTERVAL: T-7 SECONDS TO CALL FOR "NEGATIVE RETURN"
(APPROX T+4 MINUTES)
F/T: T
TIMING: YES

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 588939
ITEM NUMBER: HKT122K

KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS:

1) A GROUND BASED, LONG RANGE TRACKING INSTRUMENT/HIGH-SPEED CAMERA IS REQUIRED TO TRACK THE OVERALL SSV FROM THE NORTH THROUGH POWERED FLIGHT UNTIL LOV FOR SRB STRUCTURAL INTEGRITY AND SSME/SRM OPERATION. CONTINUE TRACK OF ORB/ET DURING AND AFTER SRB SEPARATION. DO NOT TRACK SEPARATED SRB'S.

2) E207/EHV207 (ER), E211/EHV211, E215/EHV215 (ER), AND E217/EHV217 SHALL PROVIDE AT LEAST THREE USEFUL VIEWS OF VEHICLE UNTIL SRB SEPARATION. THREE USEFUL VIEWS IS DEFINED AS THREE VIEWS WITH NO TWO VIEWS FROM THE SAME TRACKER.

3) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

4) TO MEET THE DATA DELIVERY TIMELINE, THIS ITEM WILL REQUIRE AIR TRANSPORT (HELICOPTER) FROM APOLLO BEACH TRACKING SITE LOT 5, GPS COORDINATES FOR LANDING N28 deg 51.455', W080 deg 46.574') TO LCC LANDING PAD.

5) PROVIDE PORT-O-LET AND POTABLE WATER AT CAMERA SITE. REFERENCE PRD DBR 017054.

6) KICS TO PROVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

REF: DBR 10353 VIDEO COMPOSITE TAPE (LAUNCH)
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 10634 TRACKING CAMERA AZIMUTH AND ELEVATION
REF: DBR 13730 KICS-700 VIDEO OF TRACKING FILM ITEMS

CONTINUED

[PRD] DATABASE RECORD: 588939
ITEM NUMBER: HKT122K

REF: DBR 16155 UMATIC OR MII DUBS
REF: DBR 16832 PROVIDE VIDEO COVERAGE OF LAUNCH FROM TRACKING TELESCOPES UTILIZED FOR PHOTO COVERAGE
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	DIGITAL FILE	1	2 HRS	KSC INTEGRATED IMAGERY SYSTEM (KIIS) MIRRORED SERVER (MS) FOR DISTRIBUTION TO THE IMAGE ANALYSIS FACILITIES
2	DIGITAL FILE	1	2 HRS	MSFC/EV12/TOM RIECKHOFF/ 256 544-7677
3	DIGITAL FILE	1	2 HRS	JSC/KX/JON DISLER/281 483-5182
4	DIGITAL FILE	1	2 HRS	KSC/NE-M7/TOM FORD/321 861-3635

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/01/07

[PRD] DATABASE RECORD: 588942 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/01/07
INITIAL DATE: 08/18/06
ITEM NUMBER: HKT124EK DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 12:01:19

REQUESTER:	MSFC	KSC	JSC	
SUBREQUESTER:	JSC/HS4-40	JSC/KX	JSC/MS2	KSC/MK-SIO
	KSC/NE-M7	MSFC/EV12	MSFC/MP71	
TEST CODE:	EHV212	GC RANGE		

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 588942
ITEM NUMBER: HKT124EK

ASSOCIATED DOC: 20007S
TRACKING NO. A0701-1 PAGE07 R0608-5
PRIORITY: REQUIRED
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE. REQUIRED FOR ER. REQUIRED FOR USER. IF IMAGERY IS ACQUIRED, IT IS MANDATORY FOR THE KICS CONTRACTOR TO DISTRIBUTE THE DATA PER THE LISTED KICS DATA DISPOSITION.

1. DESCRIPTION: EHV212 - AFT 1/3 OF VEHICLE, TRANSITIONING TO OVERALL SSV AS VIEW ALLOWS. FALLBACK AND QUICK-LOOK IMAGERY ASSOCIATED WITH E212

LOCATION: UCS-23
FIELD OF VIEW: AFT PORTION OF SSV AS SPECIFIED IN REMARKS FIELD. EASTERN RANGE (ER) DETERMINES CLOCKING.
CAMERA FORMAT: HDTV (4-2-2)
RESOLUTION: HDTV
F/L: 60 INCH
FPS: MINIMUM OF 60 FRAMES PER SECOND, PROGRESSIVE SCAN
INTERVAL: T-7 SECONDS TO CALL FOR "NEGATIVE RETURN" (APPROX T+4 MINUTES)
F/T: T
TIMING: YES

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251
ER/CSR-4150/WILLIAM KLEINFELDER/321 853-6886

REMARKS: 1). GROUND BASED, LONG RANGE TRACKING INSTRUMENT CAMERA COVERAGE OF THE AFT PORTION OF THE SSV, TRANSITIONING TO ENTIRE VEHICLE AS VIEW ALLOWS, IS REQUIRED FROM THE AOV TO LOV TO RECORD VEHICLE MOTION, STRUCTURAL INTEGRITY, SSME/SRM OPERATION, AND POSSIBLE DEBRIS. AFTER SRB SEPARATION, TRACK SOUTHERN SRB.

CONTINUED

[PRD] DATABASE RECORD: 588942
ITEM NUMBER: HKT124EK

2). IN THE EVENT OF A CATASTROHPHIC ACCIDENT THIS CAMERA IS TO TRACK THRUSTING BODIES PER EASTERN RANGE PROCEDURES.

3). THIS CAMERA IS ACTIVATED BY THE EASTERN RANGE.

4). ER IMAGERY INSTRUMENTATION STATUS TO BE REPORTED (BY ER) AT LRR. AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

5). KICS TO PROVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

REF: DBR 10353 VIDEO COMPOSITE TAPE (LAUNCH)
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANLAYSIS
REF: DBR 10634 TRACKING CAMERA AZIMUTH AND ELEVATIONS
REF: DBR 10638 TIMING INFORMATION ON VIDEO
REF: DBR 13730 KICS-700 VIDEO OF TRACKING FILM ITEMS
REF: DBR 16155 UMATIC OR MII DUBS
REF: DBR 16832 PROVIDE VIDEO COVERAGE OF LAUNCH FROM TRACKING TELESCOPES UTILIZED FOR PHOTO COVERAGE
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDING

KICS DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	DIGITAL FILE	1	BY REQ	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
2	DIGITAL FILE	1	1 HR	KSC INTEGRATED IMAGERY SYSTEM (KIIS) MIRRORED SERVER (MS) FOR DISTRIBUTION TO THE IMAGE ANALYSIS FACILITIES
	OR			

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 588942
ITEM NUMBER: HKT124EK

3	DIGITAL FILE	1	1 HR	MSFC/EV12/TOM RIECKHOFF/ 256 544-7677
4	DIGITAL FILE	1	1 HR	JSC/KX/JON DISLER/281 483-5182
5	DIGITAL FILE	1	1 HR	KSC/NE-M7/TOM FORD/321 861-3635

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/01/07

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/01/07

[PRD] DATABASE RECORD: 588943 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/01/07
INITIAL DATE: 08/18/06
ITEM NUMBER: HKT125K DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 12:04:46

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/KX JSC/MS2 KSC/MK-SIO KSC/NE-M7
MSFC/EV12 MSFC/MP71
TEST CODE: EHV216 GC RANGE

ASSOCIATED DOC: 20007S
TRACKING NO. A0701-1 PAGE07 R0608-5

1. DESCRIPTION: EHV216 - FALLBACK AND QUICK-LOOK IMAGERY
ASSOCIATED WITH E216

LOCATION: D5R67
FIELD OF VIEW: OVERALL SSV AS SPECIFIED IN REMARKS FIELD.
CLOCK 45 DEGREES COUNTER CLOCKWISE
CAMERA FORMAT: HDTV (4-2-2)
RESOLUTION: 1280 X 720 MINIMUM

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 588943
ITEM NUMBER: HKT125K

DATA DEL. TIME: MAXIMUM OF 2 HOURS
F/L: AS REQUIRED TO MEET FOV REQUIREMENT (NOMINALLY 200")
FPS: MINIMUM OF 60 FRAMES PER SECOND, PROGRESSIVE SCAN.
INTERVAL: T-7 SECONDS (OR AOV) TO CALL FOR "NEGATIVE RETURN" (APPROX T+4 MINUTES)
F/T: T
TIMING: YES

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS: 1). GROUND BASED, LONG RANGE TRACKING INSTRUMENT/HIGH SPEED CAMERA IS REQUIRED TO TRACK THE SSV FROM THE SOUTH THROUGH POWERED FLIGHT UNTIL LOV FOR SRB STRUCTURAL INTEGRITY AND SSME/SRM OPERATION. CONTINUE TRACK OF ORB/ET DURING AND AFTER SRB SEPARATION. DO NOT TRACK SEPARATED SRB'S.

2). E204/EHV204 (ER), E208/EHV208/E210/EHV210, E212/EHV212 (ER), E214/EHV214, E216/EHV216 SHALL PROVIDE AT LEAST THREE USEFUL VIEWS OF VEHICLE UNTIL SRB SEPARATION. THREE USEFUL VIEWS IS DEFINED AS THREE VIEWS WITH NO TWO VIEWS FROM THE SAME TRACKER.

3). IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

4). PROVIDE PORT-O-LETS AND POTABLE WATER AT CAMERA SITE. REFERENCE PRD DBR 17054.

5). KICS TO PROVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 588943
ITEM NUMBER: HKT125K

REF: DBR 10353 VIDEO COMPOSITE TAPE (LAUNCH)
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANLAYSIS
REF: DBR 10634 TRACKING CAMERA AZIMUTH AND ELEVATIONS
REF: DBR 10638 TIMING INFORMATION ON VIDEO
REF: DBR 13730 KICS-700 VIDEO OF TRACKING FILM ITEMS
REF: DBR 16155 UMATIC OR MII DUBS
REF: DBR 16832 PROVIDE VIDEO COVERAGE OF LAUNCH FROM TRACKING TELESCOPES UTILIZED FOR PHOTO COVERAGE
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDING

KICS DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	DIGITAL FILE	1	1 HR	KSC INTEGRATED IMAGERY SYSTEM (KIIS) MIRRORED SERVER (MS) FOR DISTRIBUTION TO THE IMAGE ANALYSIS FACILITIES
	OR			
2	DIGITAL FILE	1	1 HR	MSFC/EV12/TOM RIECKHOFF/ 256 544-7677
3	DIGITAL FILE	1	1 HR	JSC/KX/JON DISLER/281 483-5182
4	DIGITAL FILE	1	1 HR	KSC/NE-M7/TOM FORD/321 861-3635

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/01/07

[PRD] DATABASE RECORD: 588944 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/27/07
INITIAL DATE: 08/18/06
ITEM NUMBER: HKT126K DATE LAST CHANGED: 03/06/07

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 588944
ITEM NUMBER: HKT126K

SECTION: 3120 TIME LAST CHANGED: 11:59:42

REQUESTER:	MSFC	KSC	JSC	
SUBREQUESTER:	JSC/HS4-40	JSC/KX	JSC/MS2	KSC/MK-SIO
	KSC/NE-M7	MSFC/EV12	MSFC/MP71	
TEST CODE:	E210	GC RANGE		

ASSOCIATED DOC: 20007S
TRACKING NO. A0701-1 PAGE07 R0608-5
PRIORITY: REQUIRED
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE. E210, NOTU BERM, IS A FALLBACK FOR COCOA BEACH E208.

1. DESCRIPTION: E210 - LONG RANGE PHOTO TRACKING COVERAGE OF LAUNCH FROM SOUTH OF FLIGHT PATH

LOCATION:	NOTU BERM
FIELD OF VIEW:	OVERALL SSV AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT:	35MM
F/L:	AS REQUIRED TO MEET FOV REQUIREMENT (NOMINALLY 400")
FPS:	80-180 (MAXIMUM AS ALLOWED BY LIGHTING CONDITIONS)
FILM TYPE LOAD:	1000 FT
INTERVAL:	AOV TO LOV
F/T:	T
EXP:	FIXED
TIMING:	YES, SYNCHRONIZE TO IRIG-B TIMING

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN281 483-1251

REMARKS: 1) GROUND BASED, LONG RANGE TRACKING INSTRUMENT/HIGH-SPEED CAMERA IS REQUIRED TO TRACK THE OVERALL SSV FROM THE SOUTH THROUGH POWERED FLIGHT UNTIL LOV FOR SRB STRUCTRUAL INTEGRITY AND SSME/SRM OPERATION. CONTINUE TRACK OF ORB/ET DURING AND AFTER SRB SEPARATION.

CONTINUED

[PRD] DATABASE RECORD: 588944
ITEM NUMBER: HKT126K

2) IN THE EVENT OF A CATASTROPHIC ACCIDENT THIS CAMERA IS TO TRACK THE CREW CABIN.

3) E204/EHV204 (ER), E208/EHV208/E210/EHV210, E212/EHV212 (ER), E214/EHV214, E216/EHV216 SHALL PROVIDE AT LEAST THREE USEFUL VIEWS OF VEHICLE UNTIL SRB SEPARATION. THREE USEFUL VIEWS IS DEFINED AS THREE VIEWS WITH NO TWO VIEWS FROM THE SAME TRACKER.

4) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED (BY NASA IT-D2) AT LRR. AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

5) KICS TO PROVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

6) PROVIDE PORT-O-LETS AND POTABLE WATER AT CAMERA SITE. REFERENCE PRD DBR 17054.

7) E210 (NOTU BERM) WILL BE USED FOR 51.6-DEGREE LAUNCHES. E208 (COCOA BEACH) WILL BE USED FOR 28.45-DEGREE LAUNCHES.

8) MAKE A MAXIMUM OF 3 EP & 2 IP (FOR FUTURE EP PURPOSES) FROM THE ORIGINAL NEGATIVE. THE 3 EP WILL BE DISTRIBUTED TO THE JSC, KSC & MSFC IAF PER THE DATA DISPOSITION. MAKE THE IP UPON REQUEST ONLY FOR DELIVERY TO KSC. THE OTHER IP AUTHORIZED IS FOR MAKING FUTURE EP UPON REQUEST ONLY. ANY FURTHER REQUESTS FOR USE OF THE ORIGINAL NEGATIVE MUST BE APPROVED BY THE IPI LEAD (ROBERT PAGE).

KICS DATA DISPOSTION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	EP	1	1 CD	MSFC/EV12/TOM RIECKHOFF/ 256 544-7677
2	EP	1	1 CD	JSC/KX/JON DISLER/281 483-5182

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 588944
ITEM NUMBER: HKT126K

3	EP	1	1 CD	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
4	EP	1	1 CD	KSC/NE-M7/TOM FORD/321 861-3635
5	IP	1	2 CD	KSC/NE-M7/TOM FORD/321 861-3635 (ON REQUEST ONLY FOR SCANNING PURPOSES)

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/27/07

[PRD] DATABASE RECORD: 588945 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/01/07
INITIAL DATE: 08/18/06
ITEM NUMBER: HKT127K DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 12:00:04

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: EHV210 GC RANGE

ASSOCIATED DOC: 20007S
TRACKING NO. A0701-1 PAGE07 R0608-5
PRIORITY: REQUIRED
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE. EHV210, NOTU BERM, IS A FALLBACK FOR COCOA BEACH EHV208.

1. DESCRIPTION: EHV210 - FALLBACK AND QUICK-LOOK IMAGERY ASSOCIATED WITH E210

LOCATION:	NOTU BERM
FIELD OF VIEW:	OVERALL SSV AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT:	HDTV (4-2-2)
RESOLUTION:	HDTV
F/L:	AS REQUIRED TO MEET FOV (NOMINALLY 200 INCH)
FPS:	MINIMUM OF 60 FRAMES PER SECOND, PROGRESSIVE SCAN

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 588945
ITEM NUMBER: HKT127K

FOR HDTV
INTERVAL: T-7 SECONDS TO CALL FOR "NEGATIVE RETURN"
(APPROX T+4 MINUTES)
F/T: T
EXP: FIXED
TIMING: YES

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN281 483-1251

REMARKS: 1) GROUND BASED, LONG RANGE TRACKING INSTRUMENT CAMERA IS REQUIRED TO TRACK THE SSV FROM THE SOUTH THROUGH POWERED FLIGHT UNTIL LOV FOR SRB STRUCTRUAL INTEGRITY AND SSME/SRM OPERATION. CONTINUE TRACK OF ORB/ET DURING AND AFTER SRB SEPARATION.

2) IN THE EVENT OF A CATASTROPHIC ACCIDENT THIS CAMERA IS TO TRACK THE CREW CABIN.

3) E204/EHV204 (ER), E208/EHV208/E210/EHV210, E212/EHV212 (ER), E214/EHV214, E216/EHV216 SHALL PROVIDE AT LEAST THREE USEFUL VIEWS OF VEHICLE UNTIL SRB SEPARATION. THREE USEFUL VIEWS IS DEFINED AS THREE VIEWS WITH NO TWO VIEWS FROM THE SAME TRACKER.

4) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED (BY NASA IT-D2) AT LRR. AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

5) KICS TO PROVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

6) PROVIDE PORT-O-LETS AND POTABLE WATER AT CAMERA SITE. REFERENCE PRD DBR 17054.

CONTINUED

[PRD] DATABASE RECORD: 588945
ITEM NUMBER: HKT127K

7) EVH210 (NOTU BERM) WILL BE USED FOR 51.6-DEGREE LAUNCHES. EHV208 (COCOA BEACH) WILL BE USED FOR 28.45-DEGREE LAUNCHES.

REF: DBR 10353 VIDEO COMPOSITE TAPE (LAUNCH)
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANLYSIS
REF: DBR 10634 TRACKING CAMERA AZIMUTH AND ELEVATION
REF: DBR 10638 TIMING INFORMATION ON VIDEO
REF: DBR 13730 KICS-700 VIDEO OF TRACKING FILM ITEMS
REF: DBR 16155 UMATIC OR MII DUBS
REF: DBR 16832 PROVIDE VIDEO COVERAGE OF LAUNCH FROM TRACKING TELESCOPES UTILIZED FOR PHOTO COVERAGE
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS

KICS DATA DISPOSTION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	DIGITAL FILE	1	BY REQ	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
2	DIGITAL FILE	1	1 HR	KSC INTEGRATED IMAGERY SYSTEM (KIIS) MIRRORED SERVER (MS) FOR DISTRIBUTION TO THE IMAGE ANALYSIS FACILITIES
	OR			
3	DIGITAL FILE	1	1 HR	MSFC/EV12/TOM RIECKHOFF/ 256 544-7677
4	DIGITAL FILE	1	1 HR	JSC/KX/JON DISLER/281 483-5182
5	DIGITAL FILE	1	1 HR	KSC/NE-M7/TOM FORD/321 861-3635

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/01/07

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 588945
ITEM NUMBER: HKT127K

[PRD] DATABASE RECORD: 588946 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/27/07
INITIAL DATE: 08/18/06
ITEM NUMBER: HKT128K DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 11:59:23

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: EHV208 GC RANGE

ASSOCIATED DOC: 20007S
TRACKING NO. A0701-1 PAGE07 R0608-5
PRIORITY: REQUIRED
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE. EHV210, NOTU BERM, IS A FALLBACK FOR COCOA BEACH EHV208.

1. DESCRIPTION: EHV208 - FALLBACK AND QUICK-LOOK IMAGERY ASSOCIATED WITH E208

LOCATION: COCOA BEACH
FIELD OF VIEW: OVERALL SSV AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: HDTV (4-2-2)
RESOLUTION: HDTV
F/L: AS REQUIRED TO MEET FOV REQUIREMENT (NOMINALLY 200")
FPS: MINIMUM OF 60 FRAMES PER SECOND, PROGRESSIVE SCAN
INTERVAL: T-7 SECONDS TO CALL FOR "NEGATIVE RETURN" (APPROX T+4 MINUTES)
F/T: T
TIMING: YES

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN281 483-1251

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 588946
ITEM NUMBER: HKT128K

REMARKS: 1) GROUND BASED, LONG RANGE TRACKING INSTRUMENT CAMERA IS REQUIRED TO TRACK THE SSV FROM THE SOUTH THROUGH POWERED FLIGHT UNTIL LOV FOR SRB STRUCTRUAL INTEGRITY AND SSME/SRM OPERATION. CONTINUE TRACK OF ORB/ET DURING AND AFTER SRB SEPARATION.

2) IN THE EVENT OF A CATASTROPHIC ACCIDENT THIS CAMERA IS TO TRACK THE CREW CABIN.

3) E204/EHV204 (ER), E208/EHV208/E210/EHV210, E212/EHV212 (ER), E214/EHV214, E216/EHV216 SHALL PROVIDE AT LEAST THREE USEFUL VIEWS OF VEHICLE UNTIL SRB SEPARATION. THREE USEFUL VIEWS IS DEFINED AS THREE VIEWS WITH NO TWO VIEWS FROM THE SAME TRACKER.

4) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED (BY NASA IT-D2) AT LRR. AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

5) KICS TO PROVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

6) PROVIDE PORT-O-LETS AND POTABLE WATER AT CAMERA SITE. REFERENCE PRD DBR 17054.

7) EHV208 (COCOA BEACH) WILL BE USED FOR 28.45-DEGREE LAUNCHES. EHV210 (NOTU BERM) WILL BE USED FOR 51.6-DEGREE LAUNCHES.

REF: DBR 10353 VIDEO COMPOSITE TAPE (LAUNCH)
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANLYSIS
REF: DBR 10634 TRACKING CAMERA AZIMUTH AND ELEVATION
REF: DBR 10638 TIMING INFORMATION ON VIDEO
REF: DBR 13730 KICS-700 VIDEO OF TRACKING FILM ITEMS
REF: DBR 16155 UMATIC OR MII DUBS
REF: DBR 16832 PROVIDE VIDEO COVERAGE OF LAUNCH FROM TRACKING TELESCOPES UTILIZED FOR PHOTO COVERAGE
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 588946
ITEM NUMBER: HKT128K

REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS

KICS DATA DISPOSTION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	DIGITAL FILE	1	BY REQ	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
2	DIGITAL FILE	1	1 HR	KSC INTEGRATED IMAGERY SYSTEM (KIIS) MIRRORED SERVER (MS) FOR DISTRIBUTION TO THE IMAGE ANALYSIS FACILITIES
	OR			
3	DIGITAL FILE	1	1 HR	MSFC/EV12/TOM RIECKHOFF/ 256 544-7677
4	DIGITAL FILE	1	1 HR	JSC/KX/JON DISLER/281 483-5182
5	DIGITAL FILE	1	1 HR	KSC/NE-M7/TOM FORD/321 861-3635

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/27/07

[PRD] DATABASE RECORD: 588949 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/27/07
INITIAL DATE: 08/18/06
ITEM NUMBER: HKT129EK DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 11:57:59

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: ESV204 GC RANGE

ASSOCIATED DOC: 20007S
TRACKING NO. A0701-1 PAGE07 R0608-5

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 588949
ITEM NUMBER: HKT129EK

PRIORITY: REQUIRED
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE. REQUIRED FOR ER. REQUIRED FOR USER. IF IMAGERY DATA IS ACQUIRED, IT IS MANDATORY FOR THE KICS CONTRACTOR TO DISTRIBUTE THE DATA PER THE LISTED KICS DATA DISPOSITION.

1. DESCRIPTION: ESV204/EHV204 - FALLBACK AND QUICK-LOOK IMAGERY ASSOCIATED WITH E204

LOCATION: PATRICK AIR FORCE BASE (PAFB) DOAMS
FIELD OF VIEW: OVERALL VEHICLE AS SPECIFIED IN REMARKS FIELD. EASTERN RANGE (ER) DETERMINES CLOCKING.
CAMERA FORMAT: HDTV (4-2-2) OR SDTV (DIGITAL)
RESOLUTION: HDTV OR SDTV
F/L: 200 INCH
FPS: MINIMUM OF 60 FRAMES PER SECOND, PROGRESSIVE SCAN FOR HDTV OR 29.97 FPS FOR SDTV.
INTERVAL: T-7 SECONDS TO CALL FOR "NEGATIVE RETURN" (APPROX T+4 MINUTES)
F/T: T
TIMING: YES

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN281 483-1251
ER/CSR-4150/WILLIAM KLEINFELDER/321 853-6886

REMARKS: 1) GROUND BASED, LONG RANGE TRACKING INSTRUMENT/HIGH-SPEED CAMERA IS REQUIRED TO TRACK THE SSV FROM THE SOUTH THROUGH POWERED FLIGHT UNTIL LOV FOR SRB STRUCTRUAL INTEGRITY AND SSME/SRM OPERATION. CONTINUE TRACK OF ORB/ET DURING AND AFTER SRB SEPARATION.

2) IN THE EVENT OF A CATASTROPHIC ACCIDENT THIS CAMERA IS TO TRACK THE CREW CABIN.

CONTINUED

[PRD] DATABASE RECORD: 588949
ITEM NUMBER: HKT129EK

3) THIS CAMERA IS ACTIVATED BY THE EASTERN RANGE.

4) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED (BY ER) AT LRR. AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

5) MINIMUM REQUIREMENT FOR RETURN TO FLIGHT IS NTSC VIDEO. RECORD ON BEST FORMAT AVAILABLE. IF ANALOG RECORDED, BETA SP IS PREFERRED WITH IRIG-B TIMING ON AUDIO CHANNEL #2. IF DIGITALLY RECORDED, WAVELET COMPRESSION IS PREFERRED WITH IRIG-B TIMING TO BE PLACED IN THE HEADER (ANCILLARY DATA) AREA OF EACH FRAME. HDTV WITH WAVELET COMPRESSION IS A LONG TERM GOAL. IF VIDEO IS SDTV (ANALOG OR DIGITAL) THEN LABEL CAMERA AS ESV204. IF VIDEO IS HDTV THEN LABEL CAMERA AS EHV204.

6) KICS TO PROVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

REF: DBR 10353 VIDEO COMPOSITE TAPE (LAUNCH)
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANLYSIS
REF: DBR 10634 TRACKING CAMERA AZIMUTH AND ELEVATION
REF: DBR 10638 TIMING INFORMATION ON VIDEO
REF: DBR 13730 KICS-700 VIDEO OF TRACKING FILM ITEMS
REF: DBR 16155 UMATIC OR MII DUBS
REF: DBR 16832 PROVIDE VIDEO COVERAGE OF LAUNCH FROM TRACKING TELESCOPES UTILIZED FOR PHOTO COVERAGE
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS

KICS DATA DISPOSTION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	DIGITAL FILE	1	BY REQ	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
2	DIGITAL FILE	1	1 HR	KSC INTEGRATED IMAGERY SYSTEM

CONTINUED

[PRD] DATABASE RECORD: 588949
ITEM NUMBER: HKT129EK

				(KIIS) MIRRORED SERVER (MS) FOR DISTRIBUTION TO THE IMAGE ANALYSIS FACILITIES
	OR			
3	DIGITAL FILE	1	1 HR	MSFC/EV12/TOM RIECKHOFF/ 256 544-7677
4	DIGITAL FILE	1	1 HR	JSC/KX/JON DISLER/281 483-5182
5	DIGITAL FILE	1	1 HR	KSC/NE-M7/TOM FORD/321 861-3635

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/27/07

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/27/07

[PRD] DATABASE RECORD: 588950
DOCUMENT ID: LLS
ITEM NUMBER: HKT130EK
SECTION: 3120

REQUIREMENT STATUS: APPROVED
APPROVAL DATE: 03/01/07
INITIAL DATE: 08/18/06
DATE LAST CHANGED: 03/06/07
TIME LAST CHANGED: 12:09:04

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: ESV304 GC RANGE

ASSOCIATED DOC: 20007S
TRACKING NO. A0701-1 PAGE07 R0608-5
PRIORITY: REQUIRED
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE. REQUIRED FOR ER. REQUIRED FOR USER. IF IMAGERY DATA IS ACQUIRED, IT IS MANDATORY FOR THE KICS CONTRACTOR TO DISTRIBUTE THE DATA PER THE LISTED KICS DATA DISPOSITION.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 588950
ITEM NUMBER: HKT130EK

1. DESCRIPTION: ESV304 - FALLBACK AND QUICK-LOOK IMAGERY
ASSOCIATED WITH E204

LOCATION:	PATRICK AIR FORCE BASE (PAFB)
FIELD OF VIEW:	OVERALL VEHICLE AS SPECIFIED IN REMARKS FIELD, THEN ORB/ET DURING & AFTER SRB SEPARATION AS SPECIFIED IN REMARKS FIELD. EASTERN RANGE (ER) DETERMINES CLOCKING.
CAMERA FORMAT:	SDTV (ANALOG OR DIGITAL)
RESOLUTION:	SDTV (ANALOG OR DIGITAL)
F/L:	120 INCH
FPS:	29.97 FPS FOR SDTV (DIGITAL OR ANALOG)
INTERVAL:	T-7 SECONDS TO CALL FOR "NEGATIVE RETURN" (APPROX T+4 MINUTES)
F/T:	T
TIMING:	YES

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251
ER/CSR-4150/WILLIAM KLEINFELDER/321 853-6886

REMARKS: 1) GROUND BASED, LONG RANGE TRACKING INSTRUMENT/HIGH-SPEED CAMERA IS REQUIRED TO TRACK THE SSV FROM THE SOUTH THROUGH POWERED FLIGHT UNTIL LOV FOR SRB STRUCTRUAL INTEGRITY AND SSME/SRM OPERATION. CONTINUE TRACK OF ORB/ET DURING AND AFTER SRB SEPARATION.

2) IN THE EVENT OF A CATASTROPHIC ACCIDENT THIS CAMERA IS TO TRACK THE CREW CABIN.

3) THIS CAMERA IS ACTIVATED BY THE EASTERN RANGE.

4) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED (BY ER) AT LRR. AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING

CONTINUED

[PRD] DATABASE RECORD: 588950
ITEM NUMBER: HKT130EK

S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

5) MINIMUM REQUIREMENT FOR RETURN TO FLIGHT IS NTSC VIDEO. RECORD ON BEST FORMAT AVAILABLE. IF ANALOG RECORDED, BETA SP IS PREFERRED WITH IRIG-B TIMING ON AUDIO CHANNEL #2. IF DIGITALLY RECORDED, WAVELET COMPRESSION IS PREFERRED WITH IRIG-B TIMING TO BE PLACED IN THE HEADER (ANCILLARY DATA) AREA OF EACH FRAME. HDTV WITH WAVELET COMPRESSION IS A LONG TERM GOAL. IF VIDEO IS SDTV (ANALOG OR DIGITAL) THEN LABEL CAMERA AS ESV304. IF VIDEO IS HDTV THEN LABEL CAMERA AS EHV304.

6) KICS TO PROVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

REF: DBR 10353 VIDEO COMPOSITE TAPE (LAUNCH)
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANLYSIS
REF: DBR 10634 TRACKING CAMERA AZIMUTH AND ELEVATION
REF: DBR 10638 TIMING INFORMATION ON VIDEO
REF: DBR 13730 KICS-700 VIDEO OF TRACKING FILM ITEMS
REF: DBR 16155 UMATIC OR MII DUBS
REF: DBR 16832 PROVIDE VIDEO COVERAGE OF LAUNCH FROM TRACKING TELESCOPES UTILIZED FOR PHOTO COVERAGE
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS

KICS DATA DISPOSTION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	DIGITAL FILE	1	BY REQ	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)
2	DIGITAL FILE	1	1 HR	KSC INTEGRATED IMAGERY SYSTEM (KIIS) MIRRORED SERVER (MS) FOR DISTRIBUTION TO THE IMAGE ANALYSIS FACILITIES
	OR			
3	DIGITAL FILE	1	1 HR	MSFC/EV12/TOM RIECKHOFF/

CONTINUED

[PRD] DATABASE RECORD: 588950
ITEM NUMBER: HKT130EK

				256 544-7677
4	DIGITAL FILE	1	1 HR	JSC/KX/JON DISLER/281 483-5182
5	DIGITAL FILE	1	1 HR	KSC/NE-M7/TOM FORD/321 861-3635

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: CSR-4150
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/01/07

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/01/07

[PRD] DATABASE RECORD: 588951 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/01/07
INITIAL DATE: 08/18/06
ITEM NUMBER: HKT131K DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 12:07:22

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/KX JSC/MS2 KSC/MK-SIO KSC/NE-M7
MSFC/EV12 MSFC/MP71
TEST CODE: EHV224 GC RANGE

ASSOCIATED DOC: 20007S
TRACKING NO. A0701-1 PAGE07 R0608-5 R0608-6
PRIORITY: MANDATORY
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE.

1. DESCRIPTION: EHV224 - FALLBACK AND QUICK-LOOK IMAGERY
ASSOCIATED WITH E224

LOCATION: UCS-5 FOR PAD B LAUNCH; UCS-16 FOR PAD A LAUNCH
FIELD OF VIEW: AFT PORTION OF SSV AS SPECIFIED IN REMARKS FIELD.
CLOCK 45 DEGREES CLOCKWISE

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 588951
ITEM NUMBER: HKT131K

CAMERA FORMAT:	HDTV (4-2-2)
RESOLUTION:	1280 X 720 MINIMUM
DATA DEL. TIME:	MAXIMUM OF 2 HOURS
F/L:	AS REQUIRED TO MEET FOV REQUIREMENT
FPS:	MINIMUM OF 60 FRAMES PER SECOND, PROGRESSIVE SCAN.
INTERVAL:	T-10 SECONDS (OR AOV) TO SRB SEPARATION (APPROX T+141 SECONDS)
F/T:	T
TIMING:	YES

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN281 483-1251

REMARKS:

1) HIGH-SPEED CAMERA COVERAGE IS REQUIRED, CENTERED ON AFT PORTION OF THE SSV AND TRANSITIONING TO ENTIRE SSV AS VIEW ALLOWS, FROM AOV TO SRB SEPARATION, TO RECORD VEHICLE MOTION, STRUCTURAL INTEGRITY, ENGINE OPERATION AND POSSIBLE DEBRIS DURING EARLY FLIGHT. CONCENTRATE ON SSME PERFORMANCE. COVERAGE WILL OVERLAP CLOSE-IN TRACKING AND LONG-RANGE TRACKING DURING TRANSITION.

2) RECORDING OF HD-SDI UTILIZING WAVELET COMPRESSION PER IMAGERY PLANNING INTEGRATION DIRECTION. IRIG-B TIMING TO BE PLACED IN THE HEADER AREA OF EACH FRAME.

3) COMBINATION OF CAMERAS E224/EHV224, E225/EHV225, AND E226/EHV226 SHALL PROVIDE AT LEAST THREE USEFUL VIEWS OF VEHICLE UNTIL END OF FILM. THREE USEFUL VIEWS IS DEFINED AS THREE VIEWS WITH NO TWO VIEWS FROM THE SAME TRACKER.

4) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

CONTINUED

[PRD] DATABASE RECORD: 588951
ITEM NUMBER: HKT131K

5) PROVIDE PORT-O-LETS AND POTABLE WATER AT CAMERA SITE. REFERENCE PRD DBR 17054

6) KICS TO PROVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

REF: DBR 10353 VIDEO COMPOSITE TAPE (LAUNCH)
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANLYSIS
REF: DBR 10634 TRACKING CAMERA AZIMUTH AND ELEVATION
REF: DBR 10638 TIMING INFORMATION ON VIDEO
REF: DBR 13730 KICS-700 VIDEO OF TRACKING FILM ITEMS
REF: DBR 16155 UMATIC OR MII DUBS
REF: DBR 16832 PROVIDE VIDEO COVERAGE OF LAUNCH FROM TRACKING TELESCOPES UTILIZED FOR PHOTO COVERAGE
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS

KICS DATA DISPOSTION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	DIGITAL FILE	1	2 HRS	KSC INTEGRATED IMAGERY SYSTEM (KIIS) MIRRORED SERVER (MS) FOR DISTRIBUTION TO THE IMAGE ANALYSIS FACILITIES
	OR			
2	DIGITAL FILE	1	2 HRS	MSFC/EV12/TOM RIECKHOFF/ 256 544-7677
3	DIGITAL FILE	1	2 HRS	JSC/KX/JON DISLER/281 483-5182
4	DIGITAL FILE	1	2 HRS	KSC/NE-M7/TOM FORD/321 861-3635

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/01/07

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 588951
ITEM NUMBER: HKT131K

[PRD] DATABASE RECORD: 588952 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/01/07
INITIAL DATE: 08/18/06
ITEM NUMBER: HKT132K DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 12:08:09

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/KX JSC/MS2 KSC/MK-SIO KSC/NE-M7
MSFC/EV12 MSFC/MP71
TEST CODE: EHV225 GC RANGE

ASSOCIATED DOC: 20007S
TRACKING NO. A0701-1 PAGE07 R0608-5
PRIORITY: MANDATORY
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE.

1. DESCRIPTION: EHV225 - FALLBACK AND QUICK-LOOK IMAGERY
ASSOCIATED WITH E225

LOCATION: UCS-9 FOR PAD B; UCS-4 FOR PAD A LAUNCH
FIELD OF VIEW: CENTERED ON FORWARD PORTION OF SSV AS SPECIFIED
IN REMARKS FIELD. CLOCK 45 DEGREES.
CAMERA FORMAT: HDTV (4-2-2)
RESOLUTION: 1280 X 720 MINIMUM
DATA DEL. TIME: MAXIMUM OF 2 HOURS
F/L: AS REQUIRED TO MEET FOV REQUIREMENT
FPS: MINIMUM OF 60 FRAMES PER SECOND, PROGRESSIVE SCAN.
INTERVAL: T-10 SECONDS (OR AOV) TO SRB SEPARATION
(APPROX T+141 SECONDS)
F/T: T
TIMING: YES

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN281 483-1251

CONTINUED

[PRD] DATABASE RECORD: 588952
ITEM NUMBER: HKT132K

REMARKS: 1) HIGH-SPEED CAMERA COVERAGE IS REQUIRED, CENTERED ON FORWARD PORTION OF THE SSV AND TRANSITIONING TO ENTIRE SSV AS VIEWS ALLOWS, FROM AOV TO SRB SEPARATION, TO RECORD VEHICLE MOTION, STRUCTURAL INTEGRITY, ENGINE OPERATION AND POSSIBLE DEBRIS DURING EARLY FLIGHT. COVERAGE WILL OVERLAP CLOSE-IN TRACKING AND LONG-RANGE TRACKING DURING TRANSITION.

2) RECORDING OF HD-SDI UTILIZING WAVELET COMPRESSION PER IPI DIRECTION. IRIG-B TIMING TO BE PLACED IN THE HEADER AREA OF EACH FRAME.

3) COMBINATION OF CAMERAS E224/EHV224, E225/EHV225, AND E226/EHV226 SHALL PROVIDE AT LEAST THREE USEFUL VIEWS OF VEHICLE UNTIL END OF FILM. THREE USEFUL VIEWS IS DEFINED AS THREE VIEWS WITH NO TWO VIEWS FROM THE SAME TRACKER.

4) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

5) PROVIDE PORT-O-LET AND POTABLE WATER AT CAMERA SITE. REFERENCE PRD DBR 17054.

6) KICS TO PROVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

REF: DBR 10353 VIDEO COMPOSITE TAPE (LAUNCH)
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANLYSIS
REF: DBR 10634 TRACKING CAMERA AZIMUTH AND ELEVATION
REF: DBR 10638 TIMING INFORMATION ON VIDEO
REF: DBR 13730 KICS-700 VIDEO OF TRACKING FILM ITEMS
REF: DBR 16155 UMATIC OR MII DUBS
REF: DBR 16832 PROVIDE VIDEO COVERAGE OF LAUNCH FROM TRACKING TELESCOPES UTILIZED FOR PHOTO COVERAGE
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 588952
ITEM NUMBER: HKT132K

LANDINGS

KICS DATA DISPOSTION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	DIGITAL FILE	1	2 HRS	KSC INTEGRATED IMAGERY SYSTEM (KIIS) MIRRORED SERVER (MS) FOR DISTRIBUTION TO THE IMAGE ANALYSIS FACILITIES
	OR			
2	DIGITAL FILE	1	2 HRS	MSFC/EV12/TOM RIECKHOFF/ 256 544-7677
3	DIGITAL FILE	1	2 HRS	JSC/KX/JON DISLER/281 483-5182
4	DIGITAL FILE	1	2 HRS	KSC/NE-M7/TOM FORD/321 861-3635

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/01/07

[PRD] DATABASE RECORD: 588957 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/01/07
INITIAL DATE: 08/19/06
ITEM NUMBER: HKT133K DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 12:08:39

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/KX JSC/MS2 KSC/MK-SIO KSC/NE-M7
MSFC/EV12 MSFC/MP71
TEST CODE: EHV226 GC RANGE

ASSOCIATED DOC: 20007S
TRACKING NO. A0701-1 PAGE07 R0608-5
PRIORITY: MANDATORY
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 588957
ITEM NUMBER: HKT133K

1. DESCRIPTION: EHV226 - FALLBACK AND QUICK-LOOK IMAGERY
ASSOCIATED WITH E226

LOCATION:	UCS-17 FOR PAD B; UCS-15 FOR PAD A LAUNCH
FIELD OF VIEW:	OVERALL SSV AS SPECIFIED IN REMARKS FIELD. CLOCK 90 DEGREES.
CAMERA FORMAT:	HDTV
RESOLUTION:	1280 X 720 MINIMUM
DATA DEL. TIME:	MAXIMUM OF 2 HOURS
F/L:	AS REQUIRED TO MEET FOV REQUIREMENT
FPS:	MINIMUM OF 60 FRAMES PER SECOND, PROGRESSIVE SCAN.
INTERVAL:	T-10 SECONDS (OR AOV) TO SRB SEPARATION (APPROX T+141 SECONDS)
F/T:	T
TIMING:	YES

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN281 483-1251

REMARKS: 1) HIGH-SPEED CAMERA COVERAGE IS REQUIRED, CENTERED ON SSV AND TRANSITIONING TO ENTIRE SSV AS VIEWS ALLOWS, FROM AOV TO SRB SEPARATION, TO RECORD VEHICLE MOTION, STRUCTURAL INTEGRITY, ENGINE OPERATION AND POSSIBLE DEBRIS DURING EARLY FLIGHT. COVERAGE WILL OVERLAP CLOSE-IN TRACKING AND LONG-RANGE TRACKING DURING TRANSITION.

2) RECORDING OF HD-SDI UTILIZING WAVELET COMPRESSION PER IPI DIRECTION. IRIG-B TIMING TO BE PLACED IN THE HEADER AREA OF EACH FRAME.

3) COMBINATION OF CAMERAS E224/EHV224, E225/EHV225, AND E226/EHV226 SHALL PROVIDE AT LEAST THREE USEFUL VIEWS OF VEHICLE UNTIL END OF FILM. THREE USEFUL VIEWS IS DEFINED AS THREE VIEWS WITH NO TWO VIEWS FROM THE SAME TRACKER.

CONTINUED

[PRD] DATABASE RECORD: 588957
ITEM NUMBER: HKT133K

4) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

5) PROVIDE PORT-O-LET AND POTABLE WATER AT CAMERA SITE. REFERENCE PRD DBR 17054.

6) KICS TO PROVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

REF: DBR 10353 VIDEO COMPOSITE TAPE (LAUNCH)
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANLYSIS
REF: DBR 10634 TRACKING CAMERA AZIMUTH AND ELEVATION
REF: DBR 10638 TIMING INFORMATION ON VIDEO
REF: DBR 13730 KICS-700 VIDEO OF TRACKING FILM ITEMS
REF: DBR 16155 UMATIC OR MII DUBS
REF: DBR 16832 PROVIDE VIDEO COVERAGE OF LAUNCH FROM TRACKING TELESCOPES UTILIZED FOR PHOTO COVERAGE
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS

KICS DATA DISPOSTION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	DIGITAL FILE	1	2 HRS	KSC INTEGRATED IMAGERY SYSTEM (KIIS) MIRRORED SERVER (MS) FOR DISTRIBUTION TO THE IMAGE ANALYSIS FACILITIES
	OR			
2	DIGITAL FILE	1	2 HRS	MSFC/EV12/TOM RIECKHOFF/ 256 544-7677
3	DIGITAL FILE	1	2 HRS	JSC/KX/JON DISLER/281 483-5182
4	DIGITAL FILE	1	2 HRS	KSC/NE-M7/TOM FORD/321 861-3635

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 588957
ITEM NUMBER: HKT133K

RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/01/07

[PRD] DATABASE RECORD: 588958 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/01/07
INITIAL DATE: 08/19/06
ITEM NUMBER: HKT134K DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 12:02:08

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71
TEST CODE: EHV213 GC RANGE

ASSOCIATED DOC: 20007S
TRACKING NO. A0701-1 PAGE07 R0608-5
PRIORITY: MANDATORY
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE.

1. DESCRIPTION: EHV213 - FALLBACK AND QUICK-LOOK IMAGERY
ASSOCIATED WITH E213

LOCATION: UCS-7 FOR PAD B; UCS-12 FOR PAD A LAUNCH
FIELD OF VIEW: FORWARD PORTION OF SSV AS SPECIFIED IN REMARKS FIELD.
CLOCK 45 DEGREES COUNTER CLOCKWISE.
CAMERA FORMAT: HDTV (4-2-2) OR SDTV (ANALOG OR DIGITAL)
RESOLUTION: HDTV OR SDTV (ANALOG OR DIGITAL)
DATA DEL. TIME: MAXIMUM OF 4 HOURS
F/L: AS REQUIRED TO MEET FOV REQUIREMENT (NOMINALLY 400MM)
FPS: MINIMUM OF 60 FRAMES PER SECOND, PROGRESSIVE SCAN
INTERVAL: T-10 SECONDS (OR AOV) TO SRB SEPARATION
(APPROX T+141 SECONDS)
F/T: T
TIMING: YES

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 588958
ITEM NUMBER: HKT134K

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN281 483-1251

REMARKS: 1) HIGH-SPEED CAMERA COVERAGE IS REQUIRED, FROM AOV TO SRB OF THE FORWARD PORTION OF THE SSV, TRANSITIONING TO ENTIRE VEHICLE AS VIEW ALLOWS, FROM TO RECORD VEHICLE MOTION, STRUCTURAL INTEGRITY, SSME/SRM OPERATION, AND POSSIBLE DEBRIS. COVERAGE WILL OVERLAP CLOSE-IN TRACKING DURING TRANSITION.

2) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

3) KICS TO PROVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

REF: DBR 10353 VIDEO COMPOSITE TAPE (LAUNCH)
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANLYSIS
REF: DBR 10634 TRACKING CAMERA AZIMUTH AND ELEVATION
REF: DBR 10638 TIMING INFORMATION ON VIDEO
REF: DBR 13730 KICS-700 VIDEO OF TRACKING FILM ITEMS
REF: DBR 16155 UMATIC OR MII DUBS
REF: DBR 16832 PROVIDE VIDEO COVERAGE OF LAUNCH FROM TRACKING TELESCOPES UTILIZED FOR PHOTO COVERAGE
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS

KICS DATA DISPOSTION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	DIGITAL FILE	1	BY REQ	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 588958
ITEM NUMBER: HKT134K

2	DIGITAL FILE	1	2 HRS	KSC INTEGRATED IMAGERY SYSTEM (KIIS) MIRRORED SERVER (MS) FOR DISTRIBUTION TO THE IMAGE ANALYSIS FACILITIES
	OR			
3	DIGITAL FILE	1	2 HRS	MSFC/EV12/TOM RIECKHOFF/ 256 544-7677
4	DIGITAL FILE	1	2 HRS	JSC/KX/JON DISLER/281 483-5182
5	DIGITAL FILE	1	2 HRS	KSC/NE-M7/TOM FORD/321 861-3635

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/01/07

[PRD] DATABASE RECORD: 588959 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/01/07
INITIAL DATE: 08/19/06
ITEM NUMBER: HKT135K DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 12:05:53

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/KX JSC/MS2 KSC/MK-SIO KSC/NE-M7
MSFC/EV12 MSFC/MP71
TEST CODE: EHV220 GC RANGE

ASSOCIATED DOC: 20007S
TRACKING NO. A0701-1 PAGE07 R0608-5
PRIORITY: MANDATORY
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE.

1. DESCRIPTION: EHV220 - FALLBACK AND QUICK-LOOK IMAGERY
ASSOCIATED WITH E220

LOCATION: UCS-15 FOR PAD B; UCS-8 FOR PAD A LAUNCH
FIELD OF VIEW: CENTERED ON FORWARD PORTION AS SPECIFIED IN REMARKS FIELD. CLOCK 45 DEGREES COUNTER CLOCKWISE.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 588959
ITEM NUMBER: HKT135K

CAMERA FORMAT:	HDTV (4-2-2)
RESOLUTION:	1280 X 720 MINIMUM
DATA DEL. TIME:	MAXIMUM OF 2 HOURS
F/L:	AS REQUIRED TO MEET FOV REQUIREMENT
FPS:	MINIMUM OF 60 FRAMES PER SECOND, PROGRESSIVE SCAN.
INTERVAL:	T-10 SECONDS (OR AOV) TO SRB SEPARATION (APPROX T+141 SECONDS)
F/T:	T
TIMING:	YES

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN281 483-1251

REMARKS:

1) HIGH-SPEED CAMERA COVERAGE IS REQUIRED, CENTERED ON FORWARD PORTION OF THE SSV AND TRANSITIONING TO ENTIRE ENTIRE VEHICLE AS VIEWS ALLOWS, FROM AOV TO SRB SEPARATION, TO RECORD VEHICLE MOTION, STRUCTURAL INTEGRITY, SSME/SRM OPERATION AND POSSIBLE DEBRIS. COVERAGE WILL OVERLAP CLOSE-IN TRACKING AND LONG-RANGE TRACKING DURING TRANSITION.

2) RECORDING OF HD-SDI UTILIZING WAVELET COMPRESSION PER IPI DIRECTION. IRIG-B TIMING TO BE PLACED IN THE HEADER AREA OF EACH FRAME.

3) COMBINATION OF CAMERAS E213/EHV213, E220/EHV220, AND E222/EHV222 SHALL PROVIDE AT LEAST THREE USEFUL VIEWS OF VEHICLE UNTIL END OF FILM. THREE USEFUL VIEWS IS DEFINED AS THREE VIEWS WITH NO TWO VIEWS FROM THE SAME TRACKER.

4) COMBINATION OF CAMERAS E220/EHV220, E224/EHV224, AND E226/EHV226 SHALL PROVIDE AT LEAST THREE USEFUL VIEWS OF VEHICLE UNTIL END OF FILM. THREE USEFUL VIEWS IS DEFINED AS THREE VIEWS WITH NO TWO VIEWS FROM THE SAME TRACKER.

CONTINUED

[PRD] DATABASE RECORD: 588959
ITEM NUMBER: HKT135K

5) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

6) PROVIDE PORT-O-LET AND POTABLE WATER AT CAMERA SITE. REFERENCE PRD DBR 17054.

7) KICS TO PROVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

REF: DBR 10353 VIDEO COMPOSITE TAPE (LAUNCH)
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANLYSIS
REF: DBR 10634 TRACKING CAMERA AZIMUTH AND ELEVATION
REF: DBR 10638 TIMING INFORMATION ON VIDEO
REF: DBR 13730 KICS-700 VIDEO OF TRACKING FILM ITEMS
REF: DBR 16155 UMATIC OR MII DUBS
REF: DBR 16832 PROVIDE VIDEO COVERAGE OF LAUNCH FROM TRACKING TELESCOPES UTILIZED FOR PHOTO COVERAGE
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS

KICS DATA DISPOSTION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	DIGITAL FILE	1	2 HRS	KSC INTEGRATED IMAGERY SYSTEM (KIIS) MIRRORED SERVER (MS) FOR DISTRIBUTION TO THE IMAGE ANALYSIS FACILITIES
	OR			
2	DIGITAL FILE	1	2 HRS	MSFC/EV12/TOM RIECKHOFF/ 256 544-7677
3	DIGITAL FILE	1	2 HRS	JSC/KX/JON DISLER/281 483-5182
4	DIGITAL FILE	1	2 HRS	KSC/NE-M7/TOM FORD/321 861-3635

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 588959
ITEM NUMBER: HKT135K

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/01/07
RESPONSE: PADD# EHV220

[PRD] DATABASE RECORD: 588960 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/01/07
INITIAL DATE: 08/19/06
ITEM NUMBER: HKT136K DATE LAST CHANGED: 03/06/07
SECTION: 3120 TIME LAST CHANGED: 12:06:43

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/KX JSC/MS2 KSC/MK-SIO KSC/NE-M7
MSFC/EV12 MSFC/MP71
TEST CODE: EHV222 GC RANGE

ASSOCIATED DOC: 20007S
TRACKING NO. A0701-1 PAGE07 R0608-5 R0608-6
PRIORITY: MANDATORY
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE.

1. DESCRIPTION: EHV222 - FALLBACK AND QUICK-LOOK IMAGERY
ASSOCIATED WITH E222

LOCATION: NORTH BEACH J8-1281 FOR PAD B LAUNCH; SOUTH BEACH
K8-741 FOR PAD A LAUNCH
FIELD OF VIEW: AFT PORTION OF SSV AS SPECIFIED IN REMARKS
FIELD. CLOCK 45 DEGREES COUNTER CLOCKWISE.
CAMERA FORMAT: HDTV (4-2-2)
RESOLUTION: 1280 X 720 MINIMUM
DATA DEL. TIME: MAXIMUM OF 2 HOURS
F/L: AS REQUIRED TO MEET FOV REQUIREMENT
FPS: MINIMUM OF 60 FRAMES PER SECOND, PROGRESSIVE SCAN.
INTERVAL: T-10 SECONDS (OR AOV) TO SRB SEPARATION
(APPROX T+141 SECONDS)
F/T: T
TIMING: YES

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 588960
ITEM NUMBER: HKT136K

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN281 483-1251

REMARKS: 1) HIGH-SPEED CAMERA COVERAGE IS REQUIRED, CENTERED ON AFT PORTION OF THE SSV AND TRANSITIONING TO ENTIRE VEHICLE AS VIEW ALLOWS, FROM AOV TO SRB SEPARATION, TO RECORD VEHICLE MOTION, STRUCTURAL INTEGRITY, SSME/SRM OPERATION AND POSSIBLE DEBRIS. CONCENTRATE ON SSME PERFORMANCE. COVERAGE WILL OVERLAP CLOSE-IN TRACKING AND LONG-RANGE TRACKING DURING TRANSITION.

2) RECORDING OF HD-SDI UTILIZING WAVELET COMPRESSION PER IPI DIRECTION. IRIG-B TIMING TO BE PLACED IN THE HEADER AREA OF EACH FRAME.

3) COMBINATION OF CAMERAS E213/EHV213, E220/EHV220, AND E222/EHV222 SHALL PROVIDE AT LEAST THREE USEFUL VIEWS OF VEHICLE UNTIL END OF FILM. THREE USEFUL VIEWS IS DEFINED AS THREE VIEWS WITH NO TWO VIEWS FROM THE SAME TRACKER.

4) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

5) PROVIDE PORT-O-LET AND POTABLE WATER AT CAMERA SITE. REFERENCE PRD DBR 17054.

6) KICS TO PROVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

REF: DBR 10353 VIDEO COMPOSITE TAPE (LAUNCH)
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANLYSIS
REF: DBR 10634 TRACKING CAMERA AZIMUTH AND ELEVATION

CONTINUED

[PRD] DATABASE RECORD: 588960
ITEM NUMBER: HKT136K

REF: DBR 10638 TIMING INFORMATION ON VIDEO
REF: DBR 13730 KICS-700 VIDEO OF TRACKING FILM ITEMS
REF: DBR 16155 UMATIC OR MII DUBS
REF: DBR 16832 PROVIDE VIDEO COVERAGE OF LAUNCH FROM TRACKING TELESCOPES UTILIZED FOR PHOTO COVERAGE
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS

KICS DATA DISPOSTION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	DIGITAL FILE	1	2 HRS	KSC INTEGRATED IMAGERY SYSTEM (KIIS) MIRRORED SERVER (MS) FOR DISTRIBUTION TO THE IMAGE ANALYSIS FACILITIES
	OR			
2	DIGITAL FILE	1	2 HRS	MSFC/EV12/TOM RIECKHOFF/ 256 544-7677
3	DIGITAL FILE	1	2 HRS	JSC/KX/JON DISLER/281 483-5182
4	DIGITAL FILE	1	2 HRS	KSC/NE-M7/TOM FORD/321 861-3635

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/01/07

[PRD] DATABASE RECORD: 588961
DOCUMENT ID: LLS
ITEM NUMBER: HKT137K
SECTION: 3120

REQUIREMENT STATUS: APPROVED
APPROVAL DATE: 03/01/07
INITIAL DATE: 08/19/06
DATE LAST CHANGED: 03/06/07
TIME LAST CHANGED: 12:00:40

REQUESTER: MSFC KSC JSC
SUBREQUESTER: JSC/HS4-40 JSC/KX JSC/MS2 KSC/MK-SIO
KSC/NE-M7 MSFC/EV12 MSFC/MP71

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 588961
ITEM NUMBER: HKT137K

TEST CODE: EHV211 GC RANGE

ASSOCIATED DOC: 20007S
TRACKING NO. A0701-1 PAGE07 R0608-5
PRIORITY: MANDATORY
RATIONALE: ENGINEERING PHOTOGRAPHIC COVERAGE.

1. DESCRIPTION: EHV211 - FALLBACK AND QUICK-LOOK IMAGERY
ASSOCIATED WITH E211

LOCATION: PONCE INLET
FIELD OF VIEW: OVERALL SSV AS SPECIFIED IN REMARKS FIELD.
STANDARD CLOCKING.
CAMERA FORMAT: HDTV (4-2-2)
RESOLUTION: 1280 X 720 MINIMUM
DATA DEL. DATE: MAXIMUM OF 2 HOURS
F/L: AS REQUIRED TO MEET FOV REQUIREMENT (NOMINALLY 200")
FPS: MINIMUM OF 60 FRAMES PER SECOND, PROGRESSIVE SCAN.
INTERVAL: T-7 SECONDS (OR AOV) TO CALL FOR "NEGATIVE RETURN"
(APPROX T+4 MINUTES)
F/T: T
TIMING: YES

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IPI LEAD)/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS:

1) GROUND BASED, LONG RANGE TRACKING INSTRUMENT/HIGH-SPEED CAMERA IS REQUIRED TO TRACK THE OVERALL SSV FROM THE NORTH THROUGH POWERED FLIGHT UNITL LOV FOR SRB STRUCTURAL INTEGRITY AND SSME/SRM OPERATION. CONTINUE TRACK OF ORB/ET DURING AND AFTER SRB SEPARATION. DO NOT TRACK SEPARATED SRB'S.

2) E207/EHV207 (ER), E211/EHV211, E215/EHV215 (ER),

CONTINUED

[PRD] DATABASE RECORD: 588961
ITEM NUMBER: HKT137K

E217/EHV217, SHALL PROVIDE AT LEAST THREE USEFUL VIEWS OF VEHICLE UNTIL SRB SEPARATION. THREE USEFUL VIEWS IS DEFINED AS THREE VIEWS WITH NO TWO VIEWS FROM THE SAME TRACKER

3) IMAGERY INSTRUMENTATION STATUS TO BE REPORTED AT LRR (BY NASA IT-D2). AFTER LRR AND BEFORE START OF S0007 ANY CHANGES IN STATUS TO BE REPORTED TO THE IPI LEAD. DURING S0007 CHANGES IN STATUS TO BE REPORTED TO THE NTD.

4) TO MEET THE DATA DELIVERY TIMELINE, THIS ITEM WILL REQUIRE AIR TRANSPORT (HELICOPTER) FROM PONCE INLET COAST GUARD STATION TO THE LCC LANDING PAD.

5) PROVIDE PORT-O-LET AND POTABLE WATER AT CAMERA SITE. REFERENCE PRD DBR 17054.

6) KICS TO PROVIDE A GPS LOCATION SURVEY OF CAMERA. PROVIDE UPDATE TO SURVEY IF LOCATION OF CAMERA CHANGES.

REF: DBR 10353 VIDEO COMPOSITE TAPE (LAUNCH)
REF: DBR 10623 LAUNCH CAMERA SURVEY DATA-ENGR PHOTO ANALYSIS
REF: DBR 10634 TRACKING CAMERA AZIMUTH AND ELEVATION
REF: DBR 10638 TIMING INFORMATION ON VIDEO
REF: DBR 13730 KICS-700 VIDEO OF TRACKING FILM ITEMS
REF: DBR 16832 PROVIDE VIDEO COVERAGE OF LAUNCH FROM TRACKING TELESCOPES UTILIZED FOR PHOTO COVERAGE
REF: DBR 228410 CAMERA LOCATIONS AND FRAME RATES
REF: DBR 518095 PHOTOGRAPHIC REQUIREMENTS FOR NIGHT LAUNCHES AND LANDINGS.

DATA DISPOSITION:

REF	TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	DIGITAL FILE	1	2 HRS	KSC INTEGRATED IMAGERY SYSTEM (KIIS) MIRRORED SERVER (MS) FOR DISTRIBUTION TO THE IMAGE ANALYSIS FACILITIES

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 588961
ITEM NUMBER: HKT137K

2	DIGITAL FILE	1	2 HRS	MSFC/EV12/TOM RIECKHOFF/ 256 544-7677
3	DIGITAL FILE	1	2 HRS	JSC/KX/JON DISLER/281 483-5182
4	DIGITAL FILE	1	2 HRS	KSC/NE-M7/TOM FORD/321 867-3635

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)
RESPONDER: CHUCK BROWN/321 867-2090

SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/01/07

[PRD] DATABASE RECORD: 590400 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/06/07
INITIAL DATE: 01/18/07
ITEM NUMBER: KT138EK DATE LAST CHANGED: 05/16/07
SECTION: 3120 TIME LAST CHANGED: 07:54:20

REQUESTER: KSC JSC
SUBREQUESTER: JSC/B-NS/HOU JSC/KX JSC/MS2 JSC/MV
JSC/SN3 KSC/MK-SIO KSC/NE-M7 MSFC/EV12
MSFC/MP71
TEST CODE: EAFB KSC

ASSOCIATED DOC: 20028S
TRACKING NO. R0701-5 R0703-2

1. DESCRIPTION: ELS038, VIDEO TRACK OF ORBITER LANDING EOM, RTLS AND AOA FROM ACQUISITION TO LOV. THIS ITEM UTILIZES THE ACQUISITION LENS. LOCAL RECORD ON VIDEO. RECORD TIME AND AZ/EL ON AUDIO TRACK #1 AND ALPHANUMERIC READOUT IN PICTURE AREA. PRIMARY COVERAGE IS FOR NORTH (RW 33) LANDINGS. THIS ITEM REQUIRES RANGE TECHNICAL SERVICES (RTS-EASTERN RANGE) SUPPORT.

LOCATION: KSC, UCS-11, ATOTS
FIELD OF VIEW: ENTIRE ORBITER AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: HDTV (4-2-2) OR SDTV (ANALOG OR DIGITAL)
F/L: AS REQUIRED TO MEET FOV (NOMINALLY 60 INCHES)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 590400
ITEM NUMBER: KT138EK

FPS: MINIMUM OF 60 FRAMES PER SECOND, PROGRESSIVE SCAN FOR HDTV OR 29.97 FPS FOR SDTV
FILM TYPE LOAD: OTHER
INTERVAL: START CAMERA AT AOV AND RUN THROUGH LOV.
F/T: T
EXP.: SITE SPECIFIC, OPERATOR SET
TIMING: YES

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS: PROVIDE PHOTO COVERAGE OF ORBITER LANDING FROM AOV THROUGH LOV TO AID IN THE DETERMINATION OF ANOMALIES. FIELD OF VIEW (FOV) WILL BE THE ENTIRE ORBITER. ALL CAMERA POSITIONS ARE TO BE SITE SURVEYED. TIMING WILL BE PROVIDED (REF. LLS3100, ITEM TH1.1EKXZ, DBR 227597).

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	DIGITAL FILE	1	1 HR	KSC INTEGRATED IMAGERY SYSTEM (KIIS) MIRRORED SERVER (MS) FOR DISTRIBUTION TO THE IMAGE ANALYSIS FACILITIES.
	OR			
2	DIGITAL FILE	1	1 HR	MSFC/EV12/TOM RIECKHOFF/ 256 544-7677
3	DIGITAL FILE	1	1 HR	JSC/KX/JON DISLER/281 483-5182
4	DIGITAL FILE	1	1 HR	KSC/NE-M7/TOM FORD/321 861-3635
5	DIGITAL FILE	1	BY REQ	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY).

FOR RTLS: TO BE DETERMINED REAL TIME.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 590400
ITEM NUMBER: KT138EK

RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 03/06/07
RESPONSE: ALPHANUMERIC RECORDED IN PICTURE FRAME WILL HAVE NEGATIVE EFFECT ON IMAGE QUALITY. HISTORICALLY THIS ITEM HAS BEEN RECORDED WITH TIMING ON AUDIO TRACK #2 AND VIDEO ONLY IN PICTURE FRAME. SITE IS ONLY CAPABLE OF PROVIDING THIS COVERAGE ON DAYTIME RTLS/AOA.

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)

SUBSUPPLIER: IT-D2-C
RESPONDER: CHUCK BROWN/321 867-2090
SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/06/07

[PRD] DATABASE RECORD: 590401 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/06/07
INITIAL DATE: 01/18/07
ITEM NUMBER: KT139EK DATE LAST CHANGED: 05/16/07
SECTION: 3120 TIME LAST CHANGED: 07:54:48

REQUESTER: KSC JSC
SUBREQUESTER: JSC/B-NS/HOU JSC/KX JSC/MS2 JSC/MV
JSC/SN3 KSC/MK-SIO KSC/NE-M7 MSFC/EV12
MSFC/MP71
TEST CODE: EAFB KSC

ASSOCIATED DOC: 20028S
TRACKING NO. R0701-5 R0703-2

1. DESCRIPTION: ELS039, VIDEO TRACK OF ORBITER LANDING EOM, RTLS AND AOA FROM ACQUISITION TO LOV. THIS ITEM UTILIZES THE ACQUISITION LENS. LOCAL RECORD ON VIDEO. RECORD TIME AND AZ/EL ON AUDIO TRACK #1 AND ALPHANUMERIC READOUT IN PICTURE AREA. PRIMARY COVERAGE IS FOR NORTH (RW 33)

CONTINUED

[PRD] DATABASE RECORD: 590401
ITEM NUMBER: KT139EK

LANDINGS. THIS ITEM REQUIRES RANGE TECHNICAL SERVICES (RTS-EASTERN RANGE) SUPPORT.

LOCATION:	PATRICK DOAMS
FIELD OF VIEW:	ENTIRE ORBITER AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT:	HDTV (4-2-2) OR SDTV (ANALOG OR DIGITAL)
F/L:	AS REQUIRED TO MEET FOV (NOMINALLY 120 INCHES)
FPS:	MINIMUM OF 60 FRAMES PER SECOND, PROGRESSIVE SCAN FOR HDTV OR 29.97 FPS FOR SDTV (DIGITAL OR ANALOG)
FILM TYPE LOAD:	OTHER
INTERVAL:	START CAMERA AT AOV AND RUN THROUGH LOV.
F/T:	T
EXP.:	SITE SPECIFIC, OPERATOR SET
TIMING:	YES

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE/321 867-8516

TECH CONTACTS: MSFC/EV12/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/KX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS: PROVIDE PHOTO COVERAGE OF ORBITER LANDING FROM AOV THROUGH LOV TO AID IN THE DETERMINATION OF ANOMALIES. FIELD OF VIEW (FOV) WILL BE THE ENTIRE ORBITER. ALL CAMERA POSITIONS ARE TO BE SITE SURVEYED. TIMING WILL BE PROVIDED (REF. LLS3100, ITEM TH1.1EKXZ, DBR 227597).

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	DIGITAL FILE	1	1 HR	KSC INTEGRATED IMAGERY SYSTEM (KIIS) MIRRORED SERVER (MS) FOR DISTRIBUTION TO THE IMAGE ANALYSIS FACILITIES.
	OR			
2	DIGITAL FILE	1	1 HR	MSFC/EV12/TOM RIECKHOFF/ 256 544-7677

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 590401
ITEM NUMBER: KT139EK

3	DIGITAL FILE	1	1 HR	JSC/KX/JON DISLER/281 483-5182
4	DIGITAL FILE	1	1 HR	KSC/NE-M7/TOM FORD/321 861-3635
5	DIGITAL FILE	1	BY REQ	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575 (ON REQUEST ONLY).

FOR RTLS: TO BE DETERMINED REAL TIME.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 03/06/07
RESPONSE: ALPHNUMERIC RECORDED IN PICTURE FRAME WILL HAVE A NEGATIVE EFFECT ON IMAGE QUALITY. HISTORICALLY THIS ITEM HAS BEEN RECORDED WITH TIMING ON AUDIO TRACK #2 AND VIDEO ONLY IN PICTURE FRAME. SITE IS ONLY CAPABLE OF PROVIDING THIS COVER ON DAYTIME RTLS/AOA.

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)

SUBSUPPLIER: IT-D2-C
RESPONDER: CHUCK BROWN/321 867-2090
SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/06/07

[PRD] DATABASE RECORD: 590402 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/18/07
INITIAL DATE: 01/18/07
ITEM NUMBER: KT140K DATE LAST CHANGED: 01/18/07
SECTION: 3120 TIME LAST CHANGED: 12:46:26

REQUESTER: KSC JSC
SUBREQUESTER: JSC/B-NS JSC/MV JSC/SN3 KSC/NE-M7
TEST CODE: KSC

ASSOCIATED DOC: 20028S
TRACKING NO. R0701-5

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3120 - ENGINEERING SEQUENTIAL PHOTOGRAPHY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 590402
ITEM NUMBER: KT140K

1. DESCRIPTION: ELH220 - ORBITER LANDING ACQUISITION OF VIEW (AOV) OF VEHICLE (~LANDING -30 MINUTES) THRU ROLLOUT AND WHEEL STOP. FOR NOMINAL AND CONTINGENCY EOM LANDINGS ONLY. HDTV TRACKING COVERAGE OF ORBITER DURING FINAL APPROACH FOR LANDINGS TO LOSS OF VIEW (LOV). START CAMERA AT AOV. IN EVENT OF CREW EJECTION, CONTINUE TO TRACK VEHICLE. PRIMARY COVERAGE IS FOR RUNWAY 33 (NORTH) LANDING. ITEM NOT ACTIVATED FOR NIGHT LANDING.

LOCATION: KSC UCS-15/KTM
FIELD OF VIEW: ENTIRE ORBITER AS SPECIFIED IN REMARKS FIELD
CAMERA FORMAT: HDTV (4-2-2)
F/L: AS REQUIRED TO MEET FIELD OF VIEW (COTS/ZOOM)
FPS: 60 FPS, PROGRESSIVE SCAN
FILM TYPE LOAD:
INTERVAL: AOV THRU TOUCHDOWN, ROLLOUT AND WHEEL STOP
F/T: T
EXP.: AUTO
TIMING: YES

PRIME REQUESTER: KSC/MK-SIO/ROBERT PAGE (IMAGERY PLANNING INTEGRATION (IPI) CHAIR)/321 861-3644

TECHNICAL CONTACT: MSFC/TD53/TOM RIECKHOFF/256 544-7677
KSC/NE-M7/TOM FORD/321 861-3635
JSC/SX/CINDY EVANS/281 483-0519
JSC/MS2/CHRISTINE BOYKIN/281 483-1251

REMARKS: PROVIDE PHOTO COVERAGE OF ORBITER FROM ACQUISITION OF VEHICLE THROUGH ROLLOUT AND WHEEL STOP TO AID IN THE DETERMINATION OF ANOMALIES. FIELD OF VIEW (FOV) WILL BE THE ENTIRE ORBITER VIEW, ALL CAMERA POSITIONS ARE TO BE SITE SURVEYED. AZIMUTH AND ELEVATION OF CAMERA MOUNT WILL BE PROVIDED, (REF LLS3100,ITEM HT50EK, DBR 010634) AS WELL AS TIMING, (REF LLS3100, ITEM TH1.1EKXZ, DBR 227597). THE AZ/EL AND TIMING DATA SHOULD BE UPDATED FOR EACH FRAME.

DATA DISPOSITION:

CONTINUED

[PRD] DATABASE RECORD: 590402
ITEM NUMBER: KT140K

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	DIGITAL FILE	1	1 HR	KSC INTEGRATED IMAGERY SYSTEM (KIIS) MIRRORED SERVER (MS) FOR DISTRIBUTION TO THE IMAGE ANALYSIS FACILITIES
	OR			
2	DIGITAL FILE	1	1 HR	MSFC/TD53/TOM RIECKHOFF/256 544-7677
3	DIGITAL FILE	1	1 HR	JSC/SX/JON DISLER/281 483-5182
4	DIGITAL FILE	1	1 HR	KSC/NE-M7/TOM FORD/321 861-3635
5	DIGITAL FILE	1	BY REQ (ON REQUEST ONLY)	JSC/BOEING/HS4-40/GAIL HARGROVE/ 281 226-5575

SUPPLIER: KSC AGENCY: KSC/IT-D (KENNEDY SPACE CENTER)

SUBSUPPLIER: IT-D2-C
RESPONDER: CHUCK BROWN/321 867-2090
SUBSUPPLIER: KICS-700
RESPONDER: ROBBIE ROBINSON/321 853-5387
SUBSUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/18/07

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3200 - METEOROLOGY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD:	312697	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	LLS	APPROVAL DATE:	07/08/05
		INITIAL DATE:	06/03/88
ITEM NUMBER:	HT1DE	DATE LAST CHANGED:	05/31/07
SECTION:	3200	TIME LAST CHANGED:	07:29:50

REQUESTER:	MSFC	JSC		
SUBREQUESTER:	I-PH-B	JSC/WS8	VALO92005	VALO92008
	VALOE			
TEST CODE:	CCAFS	EAFB	ISTRES	KSC
	MORON	SLF	STSALL	SUPSIM
	TAL	WSSH	ZARAGOZA	

ASSOCIATED DOC:	20007S	20017S	20026S	20027S	
	20028S	20029S	20057S	20070S	
TRACKING NO.	KING2001	L06-11-7	L114-3	L2604	L3848
	L507-4	L6526	L710-1	R109-83	R26181
	R8701	SHAW95			
PRIORITY:	REQUIRED				
RATIONALE:	MISSION SUPPORT				

1. DESCRIPTION: TEST CODES VS ACTUAL SUPPORT TIMES

TEST CODES USED IN THIS METEOROLOGICAL SECTION REFLECT THE MISSION PHASE FOR WHICH DATA IS ACTUALLY REQUIRED. THEREFORE; IN ORDER TO OBTAIN MEANINGFUL PLANNING DATA, GATHERING AND PROCESSING OF THESE DATA MUST OFTEN BEGIN HOURS OR EVEN DAYS BEFORE THE SPECIFIC EVENT IS TO OCCUR. AGENCIES SUPPORTING THESE REQUIREMENTS SHOULD CLOSELY EXAMINE THE ENTIRE REQUIREMENT TO DETERMINE THE TOTAL TIME-RANGE OF REQUESTED SUPPORT.

CONTINGENCY UPPER AIR OBSERVATIONS

IF AN UPPER AIR SYSTEM FAILS TO SATISFY A STATED REQUIREMENT, A BACKUP OBSERVATION WILL BE MADE ASAP UPON REQUEST OF THE USING AGENCY. IN THE EVENT OF LAUNCH DELAYS, OTHER UPPER AIR SOUNDINGS IN ADDITION TO THOSE SCHEDULED IN SECT. 3230 MAY BE REQUESTED BY THE FLIGHT DIRECTOR IN THE MCC WITH NO LESS THAN ONE HOUR NOTIFICATION IN SUPPORT OF AN IMPENDING LANDING AT EAFB, WSSH, OR THE KSC SLF.

NOTE: WSSH ONLY - SUPPORT WILL BE ON A "BEST EFFORT" BASIS.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
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SECTION 3200 - METEOROLOGY

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[PRD] DATABASE RECORD: 312697
ITEM NUMBER: HT1DE

TECHNICAL CONTACT: JSC/WS8/BRIAN HOETH/ 281 483-3246
HSFS-W/321-494-7427
MSFC/EV13/RYAN DECKER/256 544-3068

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/08/05
RESPONSE TRACKING: Z0509-1 Z26144 Z6590 Z8006 Z8701

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB ER WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/15/06
RESPONSE TRACKING: Z26149 Z2715 Z6590 Z8701

[PRD] DATABASE RECORD: 21915 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/27/06
INITIAL DATE: 05/02/90
ITEM NUMBER: T2.7DE DATE LAST CHANGED: 05/30/07
SECTION: 3200 TIME LAST CHANGED: 10:33:09

REQUESTER: JSC
SUBREQUESTER: I-PH-B JSC/WS8
TEST CODE: CCAFS EAFB ISTRES KSC
MORON SLF STSALL TAL
WSSH ZARAGOZA

ASSOCIATED DOC: 20007S 20017S 20026S 20027S
20029S 20057S 20070S
TRACKING NO. KING2001 L005-1 L06-10-2 L110-1 L114-3
L3517 L3848 L4518 L6526 L710-1
L805-1 MK98 R0610-3 R109-83 R4422
R8701
PRIORITY: MANDATORY
RATIONALE: COMMON DATA EXCHANGE FORMAT

1. DESCRIPTION: PROTOCOL FOR ATMOSPHERIC DATA TRANSMISSION FROM
ALL SITES TO JSC/SMG MIDDS AND FR0M CCAFS TO JSC/SPERRY.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
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[PRD] DATABASE RECORD: 21915
ITEM NUMBER: T2.7DE

INTRODUCTION AND APPLICATION: THE DOCUMENT "METEOROLOGICAL DATA TRANSFER FORMAT FOR SPACE SHUTTLE MISSION SUPPORT" JSC PUBLICATION 22955, IDENTIFIES A PROTOCOL FOR THE ELECTRONIC TRANSFER OF VARIOUS TYPES OF METEOROLOGICAL DATA.

THE PROTOCOL IDENTIFIED WILL APPLY TO THE TRANSMISSION OF ATMOSPHERIC DATA FROM THE 45 SW CAPE WEATHER DATA GENERAL COMPUTER TO THE JSC FLT DESIGN COMPUTATIONAL FACILITY (FDCF) SPERRY 1100/90 (90W) COMPUTER.

DATA FORMAT: THE DATA TRANSMITTED WILL BE IN THE METEOROLOGICAL DATA FILE FORMAT AS DOCUMENTED IN THE JSC PUBLICATION 22955. THE MAXIMUM TRANSMISSION SIZE OF A SINGLE FILE OR FILE SEGMENT AS DEFINED IN THE DOCUMENT FORMAT WILL NOT EXCEED 100,000 CHARACTERS.

RESPONSIBILITY: CHIEF, FLIGHT ANALYSIS BRANCH (DM3), NASA JOHNSON SPACE CENTER, HOUSTON, TX IS RESPONSIBLE FOR JSC PUB. 22955, ANY QUESTIONS ON THE FORMAT OR THE INTERPRETATION OF THE DATA IN THE FORMAT SHOULD BE ADDRESSED TO THE CHIEF, FLIGHT ANALYSIS BRANCH (DM3). SINCE THE LEAD RANGE IS NOT A SIGNER OF THE DOCUMENT, ANY CHANGES (AS OF 9/89)

TO THE FORMATS NOW IN USE MUST BE COORDINATED WITH ER/WE.

THIS DOCUMENT IS INTENDED FOR USE BY SHUTTLE PERSONNEL INVOLVED IN RECEIVING, PROCESSING AND EVALUATING WEATHER DATA REQUIRED FOR LAUNCH AND LANDING DECISIONS. THE FORMATS ARE DEVELOPED FOR USE IN RECEIVING AND TRANSMITTING DATA THROUGH THE METEOROLOGICAL INTERACTIVE DATA DISPLAY SYSTEM (MIDDS) AND FLIGHT DESIGN COMPUTATIONAL FACILITY (FDCF) AT JOHNSON SPACE CENTER. SPECIFIC EQUIPMENT AT VARIOUS SITES REQUIRED TO SUPPORT THIS FORMAT ARE REFLECTED IN OTHER SECTIONS OF THE LAUNCH AND LANDING PROGRAM REQUIREMENTS DOCUMENT (PRD).

TECH CONTACT/COORD: JSC/WS8/BRIAN HOETH/281 483-3246
JSC/WS8/DORIS HOOD/281 483-1041
DDMS-W/321 853-8484

NOTE: THIS ITEM REPLACES THE FOLLOWING LLS SECTION 3200 ITEMS: T1.1E, DBR 014583; T2DE, DBR 323092; T2.1DE, DBR 013029; T2.3DE, DBR 013038; T2.2DE, DBR 013032; T2.4E, DBR 013056; T2.5DE,

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
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[PRD] DATABASE RECORD: 21915
ITEM NUMBER: T2.7DE

DBR 013060; T2.6DE, DBR 013058.

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/27/06
RESPONSE TRACKING: Z0509-1 Z3803 Z4423 Z4945 Z6590
Z8701

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB ER WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/15/06
RESPONSE TRACKING: Z3546 Z4423 Z4945 Z6590 Z8701

[PRD] DATABASE RECORD: 316459 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/04/93
INITIAL DATE: 06/30/89
ITEM NUMBER: T3E DATE LAST CHANGED: 10/27/06
SECTION: 3200 TIME LAST CHANGED: 09:53:02

REQUESTER: JSC
SUBREQUESTER: I-PH-B JSC/WS8 VALO92008 VALOE
TEST CODE: STSALL
TRACKING NO. KING2001 L06-10-3 L310-1 L5809 L710-1
L906-8 R0610-3 R109-83 R2886 R8701
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: ATMOSPHERIC DATA FORMAT TESTING

VALIDATION DATA FLOW OF SYSTEMS IMPLEMENTATION IS REQUIRED
PRIOR TO EACH MISSION

(REF. SECTION 3200, ITEM T2.7DE, DBR 021915 FOR EXAMPLES OF DATA).

POC: JSC/WS8/BRIAN HOETH/281 483-3246

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
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[PRD] DATABASE RECORD: 316459
ITEM NUMBER: T3E

SUBSUPPLIER: EAFB ER WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/05/93
RESPONSE TRACKING: Z2719 Z2869 Z5824 Z8701

[PRD] DATABASE RECORD: 322508 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/19/89
INITIAL DATE: 09/19/89
ITEM NUMBER: K4EX DATE LAST CHANGED: 06/04/07
SECTION: 3200 TIME LAST CHANGED: 09:53:50

REQUESTER: KSC
SUBREQUESTER: I-PH-B KSC/PH-L USK-426 VAL92008
VALE
TEST CODE: DFRC EAFB S0026.200 S0026.300
S0027.001 S0028.100 S0028.200 S0028.300
S0028.500 S0071 S5022.100 S5022.200
STSALL

ASSOCIATED DOC: 20026S 20027S 20028S 25022S
TRACKING NO. DB98 KING2001 L07-1-2 L3411 L4314
R0701-7 R109-83 R2651 R2809 SCRUB06
PRIORITY: MANDATORY
RATIONALE: MISSION CRITICAL WEATHER INFORMATION.

1. DESCRIPTION: KSC ON-SITE PERSONNEL AT DFRC REQUIRE SURFACE AND UPPER AIR FORECASTS AND OBSERVATIONS IN SUPPORT OF GROUND OPERATIONS, (MSBLS TESTING, TRANSFER OF HAZARDOUS FLUIDS, MATING). INFORMATION REQUIRED INCLUDES TEMPERATURE, WIND SPEED AND DIRECTION, UPPER AIR TEMPERATURE INVERSIONS, PRECIPITATION, THUNDERSTORMS AND LIGHTNING ACTIVITY INCLUDING UPDATES FOR CHANGES OF 5 KNOTS OR GREATER IN WIND SPEED OR 20 DEGREES IN DIRECTION OR A TEMP CHANGE OF 2 DEGREES F OR GREATER. PROVIDE INFO TO THE AIR-FIELD SUPPORT COORDINATOR.

TECH CONTACT: DENNY GAGEN/PH-L/321 861-9301
JOHN MADURA/KT-C/321 867-0814
KATHY WINTERS/45WS/DOR/321 853-8107

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
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[PRD] DATABASE RECORD: 322508
ITEM NUMBER: K4EX

SUBSUPPLIER: EAFB
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 07/01/91
RESPONSE: EAFB WILL ADVISE ASCO OF ANY SIGNIFICANT CHANGES.

RESPONSE TRACKING: Z2719 Z3453 Z4340

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 07/08/91
RESPONSE: DFRC WILL TELEPHONE EAFB WEATHER FOR INITIAL
FORECAST AT LAUNCH - 2 HOURS AND LANDING - 2 HOURS AND
PERIODICALLY DURING TURNAROUND ACTIVITIES AS REQUIRED.

RESPONSE TRACKING: Z3453 Z4340

[PRD] DATABASE RECORD: 337985 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/15/89
INITIAL DATE: 09/15/89
ITEM NUMBER: K5D DATE LAST CHANGED: 05/31/07
SECTION: 3200 TIME LAST CHANGED: 07:58:33

REQUESTER: KSC
SUBREQUESTER: I-PH-B KSC/PH-L USK-426
TEST CODE: DODALS DODELS STSALL
TRACKING NO. DB98 KING2001 L3404 R109-83 R2809
SCRUB06
PRIORITY: MANDATORY
RATIONALE: MISSION CRITICAL WEATHER INFORMATION.

1. DESCRIPTION:
PROVIDE SURFACE FORECAST AND OBSERVATION AT DESIGNATED
DOD ALS/ELS's FOR GROUND OPERATIONS INVOLVING TRANSFER
OF HAZARDOUS FLUIDS AND MATING. INFORMATION REQUIRED INCLUDES
TEMPERATURE, WIND SPEED AND DIRECTION. PRECIPITATION, ELECTRICAL
STORM ACTIVITY WITHIN FIVE MILES OF OPERATIONAL AREA, AND UPPER
AIR TEMPERATURE INVERSIONS. PROVIDE WIND READOUT DEVICE (ANQ-15

CONTINUED

[PRD] DATABASE RECORD: 337985
ITEM NUMBER: K5D

OR EQUIVALENT) FOR USE AT THE DESERVICE AREA AND AT THE MATING AREA.

TECH CONTACT: TIM O'BRIEN/PH-L/321 861-9311
JOHN MADURA/KT-C/321 867-0814
HSFS-W/321 494-7427

NOTE: THE DOD WILL PROVIDE NORMALLY SCHEDULED SURFACE FORECAST AND OBSERVATION AT EACH ALS/ELS. IF SPECIAL FORECASTS AND/OR OBSERVATIONS ARE REQUIRED FOR HAZARDOUS FLUIDS TRANSFER OPERATIONS AND MATING OPERATIONS, NASA MUST PROVIDE TIMELY NOTIFICATION TO HSFS ON SITE COORDINATOR FOR REVIEW AND COORDINATION. VERY LIMITED UPPER AIR INFORMATION IS AVAILABLE AT ALS/ELS'S. MORE DETAILED SUPPORT CAN BE PROVIDED BY RANGE STAFF METEOROLOGISTS AT EAFB, WSSH AND KSC. A WIND READOUT DEVICE (ANQ-15 OR EQUIVALENT) IS NOT AVAILABLE FOR USE AT THE DESERVICE AND MATING AREAS.

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/10/89
RESPONSE TRACKING: Z26144 Z3478

[PRD] DATABASE RECORD: 358252 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/17/94
INITIAL DATE: 09/14/89
ITEM NUMBER: K6E DATE LAST CHANGED: 12/06/06
SECTION: 3200 TIME LAST CHANGED: 14:01:34

REQUESTER: KSC
SUBREQUESTER: I-PH-B USK-299 VAL92008 VALE
TEST CODE: KSC STSALL
TRACKING NO. DB98 KING2001 L3402 R109-83 R6546
SCRUB06
PRIORITY: MANDATORY
RATIONALE: MISSION CRITICAL WEATHER INFORMATION.

1. DESCRIPTION: KSC WEATHER INFORMATION

WEATHER INFORMATION WILL BE REQUIRED AT KSC DURING

CONTINUED

[PRD] DATABASE RECORD: 358252
ITEM NUMBER: K6E

GROUND OPERATIONS, ESPECIALLY DURING HAZARDOUS OPERATIONS AND TRANSPORTATION OF FLIGHT HARDWARE. INFORMATION REQUIRED INCLUDES AIR TEMPERATURE AND WIND GROUND SPEED AND DIRECTION, PRECIPITATION, THUNDERSTORMS AND LIGHTNING ACTIVITY.

TECH CONTACT: PETE NICKOLENKO/PH-L/861-9317
JOHN MADURA/KT-C/321 867-0814

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/18/94
RESPONSE TRACKING: Z2719 Z3443 Z6537

[PRD] DATABASE RECORD: 324518 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/15/89
INITIAL DATE: 09/15/89
ITEM NUMBER: K7E DATE LAST CHANGED: 12/06/06
SECTION: 3200 TIME LAST CHANGED: 14:02:55

REQUESTER: KSC
SUBREQUESTER: I-PH-B KSC/PH-L USK-426 VAL92008
VALE
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 L3404 R109-83 SCRUB06
PRIORITY: REQUIRED
RATIONALE: REQUIRED ONLY FOR TESTING.

1. DESCRIPTION: KSC ON-SITE PERSONNEL AT WSMR REQUIRE, UPON TELEPHONE REQUEST, AREA WEATHER FORECASTS TO SUPPORT MSBLS/PLTS TESTING. INFORMATION REQUIRED INCLUDES TEMPERATURE, BAROMETRIC PRESSURE, WIND SPEED AND DIRECTION, THUNDERSTORM AND LIGHTNING ACTIVITY.

TECH CONTACT: DEAN SCHAAF/PH-L/321 861-9301
JOHN MADURA/KT-C/321 867-0814

CONTINUED

[PRD] DATABASE RECORD: 324518
ITEM NUMBER: K7E

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/13/89
RESPONSE TRACKING: Z2719 Z3484

[PRD] DATABASE RECORD: 351905 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/07/88
INITIAL DATE: 03/07/88
ITEM NUMBER: K8E DATE LAST CHANGED: 12/06/06
SECTION: 3200 TIME LAST CHANGED: 14:04:51

REQUESTER: KSC
SUBREQUESTER: I-PH-B KSC/PH-L USK-426 VAL92008
VALE
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 R109-83 R2686 SCRUB06
PRIORITY: REQUIRED
RATIONALE: TERTIARY LANDING SITE. BECOMES MANDATORY FOR LANDING AT WSSH.

1. DESCRIPTION: PROVIDE SURFACE AND UPPER AIR FORECASTS AND OBSERVATIONS FOR WSSH POST-LANDING GROUND OPERATIONS INVOLVING TRANSFER OF HAZARDOUS FLUIDS AND MATING, INFORMATION REQUIRED INCLUDES TEMPERATURE, PRECIPITATION, THUNDERSTORM AND LIGHTNING, ACTIVITY, WIND SPEED AND DIRECTION, AND UPPER AIR TEMPERATURE INVERSIONS, SUPPORT WILL ALSO BE REQUIRED DURING WSSH SITE ACTIVATION PERIODS.

TECH CONTACT: LOUIE GARCIA/PH-L/321 867-6196
JOHN MADURA/KT-C/321 867-0814

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/18/88

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
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[PRD] DATABASE RECORD: 351905
ITEM NUMBER: K8E

RESPONSE TRACKING: Z2719

[PRD] DATABASE RECORD: 359611 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/18/88
INITIAL DATE: 10/18/88
ITEM NUMBER: K9E DATE LAST CHANGED: 12/06/06
SECTION: 3200 TIME LAST CHANGED: 14:07:21

REQUESTER: KSC
SUBREQUESTER: I-PH-B KSC/PH-L USK-426 VAL92008
VALE
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 R109-83 R2686 R2728
SCRUB06
PRIORITY: REQUIRED
RATIONALE: TERTIARY LANDING SITE. BECOMES MANDATORY FOR LANDING AT
WSSH.

1. DESCRIPTION: PROVIDE WIND READOUT DEVICE
(ANQ-15 OR EQUIVALENT) FOR USE AT THE DESERVICE
AREA DURING ORBITER OPERATIONS AT WSSH.

TECH CONTACT: LOUIE GARCIA/PH-L/321 867-6196
MIKE KUTA/USK-426/321 861-3890

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/18/88
RESPONSE TRACKING: Z2719

[PRD] DATABASE RECORD: 363354 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/26/88
INITIAL DATE: 08/26/88
ITEM NUMBER: K10EX DATE LAST CHANGED: 03/21/07
SECTION: 3200 TIME LAST CHANGED: 12:51:57

REQUESTER: KSC

CONTINUED

[PRD] DATABASE RECORD: 363354
ITEM NUMBER: K10EX

SUBREQUESTER: I-PH-B KSC/PH-L VAL92008 VALE
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 L2646 R109-83 R2651
R2809 SCRUB06
PRIORITY: MANDATORY
RATIONALE: WIND READOUT REQUIRED FOR MATE/DEMATE OPERATIONS.

1. DESCRIPTION: PROVIDE WIND READOUT DEVICE (ANQ-15 OR EQUIVALENT) FOR USE ON OR ADJACENT TO THE MDD DURING GROUND OPERATIONS AT DFRC.

TECH CONTACT: DEAN SCHAAF/PH-L/321 861-9311
MIKE KUTA/USK-426/321 861-3890

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/18/88
RESPONSE TRACKING: Z26156 Z2719

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/26/88
RESPONSE TRACKING: Z26156

[PRD] DATABASE RECORD: 314592 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/04/02
INITIAL DATE: 09/14/89
ITEM NUMBER: K11E DATE LAST CHANGED: 12/13/06
SECTION: 3200 TIME LAST CHANGED: 10:20:30

REQUESTER: KSC
SUBREQUESTER: I-PH-B KSC/DYN-2 KSC/TA
TEST CODE: CCAFS STSALL

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

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PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 314592
ITEM NUMBER: K11E

ASSOCIATED DOC: 20007S
TRACKING NO. DB98 KING2001 L3402 L4213 L5206
L9503 R109-83 SCRUB06
PRIORITY: MANDATORY
RATIONALE: SAFETY ISSUE

1. DESCRIPTION: SHUTTLE HCL CLOUD PREDICTION (L-4 HOURS)

ACCESS TO RANGE WEATHER OPERATIONS (RWO) IS REQUIRED
FOR PROJECT PERSONNEL (2-3 PEOPLE) TO CONSULT WITH FORECAST PERSONNEL
IN ORDER TO PREDICT THE PROBABLE MOVEMENT AND CHARACTERISTICS OF
THE EXHAUST CLOUD AND FOR VIDEO CAPABILITY ESTABLISHMENT FOR ACID
DEPOSITION BRIEFINGS ON THE DAY OF LAUNCH. RAWINSONDES ARE REQUIRED
AND THE DATA IS CURRENTLY SUPPLIED ON AN AS-RUN BASIS TO THE EEC.

TECH CONTACTS: BURT SUMMERFIELD/TA/321 867-4598
CARLTON HALL/DYN-2/321 476-4101

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/04/02
RESPONSE TRACKING: Z2719 Z3443 Z4509 Z5205 Z9511

[PRD] DATABASE RECORD: 233538 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/04/02
INITIAL DATE: 06/30/89
ITEM NUMBER: T13D DATE LAST CHANGED: 06/06/07
SECTION: 3200 TIME LAST CHANGED: 08:28:53

REQUESTER: JSC
SUBREQUESTER: I-PH-B JSC/WS8
TEST CODE: FERRY S5022.200 STSALL

ASSOCIATED DOC: 25022S 25044S
TRACKING NO. KING2001 L4314 L906-8 R109-83 R2886
R8701

1. DESCRIPTION: METEOROLOGICAL SUPPORT: SCA/FERRY FLIGHTS

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

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[PRD] DATABASE RECORD: 233538
ITEM NUMBER: T13D

WEATHER FORECASTING: BECAUSE OF THE STRINGENT FLIGHT ENVELOPE REQUIRED FOR THESE MISSIONS, COMPREHENSIVE WEATHER INFORMATION IS REQUIRED. DOD IS REQUESTED TO PROVIDE A COMPLETE METEOROLOGICAL FORECAST FOR EACH MISSION. THESE FORECASTS ARE TO BE AVAILABLE AT EACH DOD DEPARTURE BASE NOT LATER THAN ONE HOUR PRIOR TO TAKEOFF, ENROUTE, AND LANDING WEATHER. THE DOD IS ALSO TASKED TO MET WATCH THE VEHICLE FLIGHT PATH UNTIL TERMINATION AT KSC.

THE FOLLOWING LIMITATIONS APPLY:

FLIGHT WILL OPERATE IN DAYLIGHT HOURS ONLY.
OUTSIDE TEMPERATURE NOT LESS THAN 15 DEGREES F.
NO MODERATE OR GREATER TURBULENCE.

POINT OF CONTACT: DDMS-W/321 494-7427

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/04/02
RESPONSE TRACKING: Z26144 Z2869 Z4340 Z8701

[PRD] DATABASE RECORD: 243835 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/21/95
INITIAL DATE: 05/17/88
ITEM NUMBER: T15E DATE LAST CHANGED: 12/07/06
SECTION: 3200 TIME LAST CHANGED: 10:34:13

REQUESTER: JSC
SUBREQUESTER: I-PH-B JSC/CA4
TEST CODE: CCAFS STSALL SUPSIM

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 L03-1-1 L2604 L4807 L507-5
L805-1 MK98 R109-83 R6537 SCRUB06
SHAW94 SHAW95
PRIORITY: REQUIRED
RATIONALE: REQUESTED BY THE CREW

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3200 - METEOROLOGY

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[PRD] DATABASE RECORD: 243835
ITEM NUMBER: T15E

1. DESCRIPTION: PROVIDE COPIES OF LATEST AVAILABLE FULL DISK VIEWS VIA E-MAIL OF THE GOES EAST AND WEST SATELLITE PICTURES TO THE FLIGHT CREW AT THE CREW QUARTERS (O&C BLDG) FOR CREW BRIEFINGS. PHOTOS ARE NEEDED ONE HOUR PRIOR TO LAUNCH COUNTDOWN WEATHER BRIEFINGS ON L-1 AND L-0 DAYS.

TECHNICAL CONTACT: ROBERT HANLEY/JSC/CA4/281 244-8654
KSC/LAUREN LUNDE/321 867-2005
KATHY WINTERS/45WS/DOR/321 853-8107

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	PHOTOS	1	E-1HR	FLIGHT CREW QUARTERS AT KSC FOR WEATHER BRIEFINGS ON L-1 DAY AND L-0 DAY. CONTACT: LAUREN LUNDE/TA-E-A 321 867-2005

NOTE: THIS REQUIREMENT IS INCLUDED IN THE GROUND RULES AND ASSUMPTIONS OF THE FLIGHT CREW SCHEDULE FOR LAUNCH COUNTDOWN (OMI S0007).

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/16/96
RESPONSE TRACKING: Z4813 Z6528 Z7704

[PRD] DATABASE RECORD: 245833 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/04/02
INITIAL DATE: 05/23/88
ITEM NUMBER: ET16T DATE LAST CHANGED: 12/07/06
SECTION: 3200 TIME LAST CHANGED: 10:34:49

REQUESTER: ER JSC
SUBREQUESTER: I-PH-B JSC/WS8
TEST CODE: CCAFS STSALL SUPSIM

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[PRD] DATABASE RECORD: 245833
ITEM NUMBER: ET16T

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 L2606 L310-1 L5809 L6905
L710-1 R109-83 R8701 SCRUB06
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION:
45 SW/RWO REQUESTS TO MONITOR THE JSC L-1 DAY AND LAUNCH MINUS 4 HOUR 15 MINUTE CREW WEATHER BRIEFING. AUDIO MONITOR SHOULD BE ESTABLISHED BY JSC TO THE ROCC RWO ON OIS 231.

POINT OF CONTACT: KATHY WINTERS/45WS/DOR/321 853-8107

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/04/02
RESPONSE TRACKING: Z5824 Z8701

[PRD] DATABASE RECORD: 9162 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/08/91
INITIAL DATE: 06/03/88
ITEM NUMBER: T20E DATE LAST CHANGED: 10/27/06
SECTION: 3200 TIME LAST CHANGED: 08:03:09

REQUESTER: JSC
SUBREQUESTER: I-PH-B JSC/WS8 VALO92008 VALOE
TEST CODE: CCAFS EAFB KSC LANDNG
SLF STSALL SUPSIM WSSH

ASSOCIATED DOC: 20007S 20017S 20026S 20027S
20028S
TRACKING NO. KING2001 L06-10-2 L110-1 L2604 L3848
L805-1 MK98 R0610-3 R109-83 R26181
R2809 R4422
PRIORITY: MANDATORY
RATIONALE: SEE DESIGNATION/RATIONALE

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3200 - METEOROLOGY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 9162
ITEM NUMBER: T20E

1. DESCRIPTION: MIDDS PROCESSED DATA

ALL REQUIRED LOCAL MET DATA FROM KSC, CCAFS, WSSH, AND EAFB TO BE PROCESSED INTO THE MIDDS AT CCAFS AND JSC. DATA WILL BE FURNISHED PER EXISTING CAPABILITY.

POINT OF CONTACT: JSC/WS8/DORIS HOOD/281 483-1041
COORDINATION: JSC/WS8/BRIAN HOETH/281 483-3246

DESIGNATION/RATIONALE BROKEN DOWN AS FOLLOWS:

TIME NEEDED	DESIG	RATIONALE
24 HRS DAILY	R	DAILY FORECAST PROFICIENCY TRAINING, MCC SIMULATIONS
L-36 HRS THRU L-6 HRS	R	RTLS/AOA/1ST DAY PLS FORECAST PREPARATION
L-6 HRS THRU 1ST DAY PLS	M	RTLS/AOA/1ST DAY PLS WEATHER ANALYSIS AND EVALUATION (*)
1ST DAY PLS THRU TD-6 HRS	R	DAILY PLS WEATHER EVALUATION, EOM FORECAST PREPARATION
TD-6 HRS THRU EOM	M	LANDING SITE WEATHER ANALYSIS AND EVALUATION

(*) - ACCEPTING "NO GO" FOR 1ST PLS INCREASES TAL EXPOSURE BY 10 TO 12 SECONDS.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB ER WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/18/97
RESPONSE TRACKING: Z26133 Z2719 Z4423 Z8904

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3200 - METEOROLOGY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD:	13055	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	LLS	APPROVAL DATE:	04/25/03
		INITIAL DATE:	06/03/88
ITEM NUMBER:	T22DE	DATE LAST CHANGED:	05/30/07
SECTION:	3200	TIME LAST CHANGED:	10:33:02

REQUESTER:	JSC			
SUBREQUESTER:	I-PH-B	JSC/WS8	VALO92008	VALOE
TEST CODE:	CCAFS	EAFB	ISTRES	KSC
	MORON	SLF	STSALL	SUPSIM
	TAL	WSSH	ZARAGOZA	

ASSOCIATED DOC:	20007S	20017S	20026S	20027S	
	20028S	20029S	20057S		
TRACKING NO.	L03-4-2	L06-10-2	L2604	L3848	L6526
	L710-1	R03-04-2	R0610-3	R109-83	R26181
	R8701				
PRIORITY:	REQUIRED				
RATIONALE:	MISSION SUPPORT				

1. DESCRIPTION: WEATHER POINT OF CONTACT

A. POINT OF CONTACT (OBSERVER/FORECASTER) QUALIFICATIONS:

1. WORKING KNOWLEDGE OF SHUTTLE WEATHER FLIGHT RULES.
2. FULLY UNDERSTAND WEATHER TERMINOLOGY.
3. FULLY QUALIFIED TO ACCURATELY CONVEY METEOROLOGICAL INFORMATION TO SMG/JSC.
4. FULLY QUALIFIED TO INTERPRET WEATHER DATA SOURCES AND INSTRUMENTS INCLUDING REMOTE WEATHER RADAR DISPLAYS AND UPPER AIR INSTRUMENTATION.
5. FULLY QUALIFIED TO OPERATE AND INTERPRET UPPER AIR OBSERVING SYSTEM.
6. FULLY QUALIFIED WITH THE IN PLACE COMMUNICATIONS EQUIPMENT, PROCEDURES AND TERMINOLOGY.
7. FOR NON-DOD SITES;
   A. FLUENT UNDERSTANDING AND SPEAKING OF ENGLISH.

B. TIME: POINT OF CONTACT (OBSERVER/FORECASTER) AT THE SITE BEGINNING AT "*(L-48)" HRS AND CONTINUING UNTIL SITE IS NOT REQUIRED FOR TAL OR AOA (FOR WEATHER SUPPORT COORDINATION AND TO INSURE PROPER SUPPORT CONFIGURATION.)

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[PRD] DATABASE RECORD: 13055
ITEM NUMBER: T22DE

"* NOT REQUIRED FOR WSSH. FOR EDW, REQUIREMENT IS FOR L-24 HRS."

COORD: JSC/WS8/TIM GARNER/281 483-1046
DDMS-W/321 494-7427

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/25/03
RESPONSE TRACKING: Z26144 Z430-1 Z6590 Z8701

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB ER WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/25/03
RESPONSE TRACKING: Z26133 Z26138 Z2719 Z6590 Z8701

[PRD] DATABASE RECORD: 16444 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/17/95
INITIAL DATE: 10/17/88
ITEM NUMBER: K24E DATE LAST CHANGED: 12/07/06
SECTION: 3200 TIME LAST CHANGED: 10:50:16

REQUESTER: KSC
SUBREQUESTER: I-PH-B KSC/PH-L VAL92008 VALE
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 R109-83 R2718 SCRUB06
SHAW95
PRIORITY: MANDATORY
RATIONALE: WEATHER REPORTS REQUIRED FOR LANDING AND FERRY FLIGHT OPERATIONS.

1. DESCRIPTION: RECORDED WEATHER INFORMATION

THE GROUND OPERATIONS TURNAROUND TEAM REQUIRES WEATHER INFORMATION DURING LANDING AND POST LANDING ACTIVITIES. THEREFORE, PROVIDE THE

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[PRD] DATABASE RECORD: 16444
ITEM NUMBER: K24E

LANDING TEAM AT DFRC, BLDG. 4833, RM. 102 WITH WEATHER DATA AVAILABLE FROM THE EDWARDS AIR FORCE BASE WEATHER DISTRIBUTION SYSTEM.

TECH CONTACT: DFRC/B. DELANEY/805 258-3425
KSC/DEAN SCHAAF/PH-L/321 861-9311
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/01/96
RESPONSE TRACKING: Z2924 Z7707

[PRD] DATABASE RECORD: 570640 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/17/03
INITIAL DATE: 02/17/03
ITEM NUMBER: H25T DATE LAST CHANGED: 11/20/06
SECTION: 3200 TIME LAST CHANGED: 10:43:46

REQUESTER: MSFC
TEST CODE: STSALL
TRACKING NO. L03-2-2 R0610-3 R114-4
PRIORITY: MANDATORY
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: MIDDS SOFTWARE AND TECHNICAL SUPPORT TO THE MSFC MIDDS OPERATIONS AND MSFC DOLILU (DAY-OF-LAUNCH I-LOAD UPDATE) OPERATIONS.

THE BASIC ARCHITECTURE FOR TRANSFERRING WEATHER DATA FROM KSC MIDDS AND JSC MIDDS TO MSFC MIDDS IS THE UNIVERSITY OF WISCONSIN'S MAN COMPUTER INTERACTIVE DATA ACCESS SYSTEM - X WINDOWS (McIDAS-X) SOFTWARE. JSC HAS MODIFIED AND ENHANCED THIS SOFTWARE TO MEET FORECASTING REQUIREMENTS FOR MANNED SPACEFLIGHT. MSFC REQUIRES THIS SOFTWARE TO REMAIN COMPATIBLE WITH THE JSC SOFTWARE ARCHITECTURE TO CONTINUE TO INGEST AND DISPLAY THE WEATHER DATA. JSC SHALL PROVIDE SOFTWARE SUPPORT FOR THE McIDAS-X SOFTWARE, INCLUDING MODIFIED McIDAS-X CODE, AS WELL AS LOCALLY DEVELOPED UTILITIES, TOOLS AND CONFIGURATION FILES. THE SOFTWARE WILL BE MADE AVAILABLE TO MSFC

CONTINUED

[PRD] DATABASE RECORD: 570640
ITEM NUMBER: H25T

PROGRAMMERS WHO WILL DO THE INSTALLATION ON THE MSFC MIDDS SYSTEM. JSC SHALL ALSO PROVIDE CONSULTATION SERVICES FOR THE INSTALLATION AND MAINTENANCE OF THE SOFTWARE. JSC SHALL PROVIDE TECHNICAL SUPPORT WITH TROUBLESHOOTING PROBLEMS RELATED TO THIS SOFTWARE THAT MAY ARISE IN DAILY OPERATIONS. JSC SHALL PROVIDE TECHNICAL SUPPORT/COORDINATION BASED ON THEIR EXPERIENCE AND LESSONS LEARNED WITH THE JSC MIDDS AND McIDAS-X OPERATING SYSTEMS TO REDUCE PROBLEMS EXPERIENCED DURING IMPLEMENTATION OF CHANGES (AS A RESULT OF CHANGES IN DATA FORMAT, WEATHER INSTRUMENTATION, PROCEDURES, ETC) TO THE MSFC MIDDS CONFIGURATION. CHANGES TO MIDDS CONFIGURATIONS WILL BE COORDINATED THROUGH THE METEOROLOGICAL SUPPORT INTERFACE CONTROL WORKING GROUP. JSC SHALL PROVIDE INFORMATION ON THE CONFIGURATION CHANGES AS THEY ARE PLANNED AND COMPLETED.

COORDINATION: MSFC/MP71/GLENN OVERBE/256 544-6053/
FAX 256 544-4401

TECHNICAL CONTACT: JSC/WS8/BRIAN HOETH/281 483-3246
MSFC/EV13/RYAN DECKER/256 544-3068

SUPPLIER: JSC AGENCY: JSC/DV (JOHNSON SPACE CENTER)
SUBSUPPLIER: JSC/ZS8
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/19/03
RESPONSE TRACKING: Z114-4

[PRD] DATABASE RECORD: 515821 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/19/91
INITIAL DATE: 07/19/91
ITEM NUMBER: H26E DATE LAST CHANGED: 12/07/06
SECTION: 3200 TIME LAST CHANGED: 10:35:26

REQUESTER: MSFC
SUBREQUESTER: I-PH-B MS069 VALO92005 VALOE
TEST CODE: STSALL
TRACKING NO. L4337 R109-83
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

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PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 515821
ITEM NUMBER: H26E

1. DESCRIPTION: MIDDS PROCESSED DATA

MSFC REQUIRES ALL LOCAL METEROLOGICAL DATA FROM KSC TO BE PROCESSED INTO THE MIDDS AT MSFC. DATA IS REQUIRED CONTINUOUSLY.

POC: MSFC/EV13/RYAN DECKER/256 544-3068
KATHY WINTERS/45WS/DOR/321 853-8107

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: BART KLEINFELDT/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/05/91
RESPONSE TRACKING: Z4832

[PRD] DATABASE RECORD: 520549 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/04/02
INITIAL DATE: 07/22/92
ITEM NUMBER: D27E DATE LAST CHANGED: 12/07/06
SECTION: 3200 TIME LAST CHANGED: 10:52:05

REQUESTER: HSFS
SUBREQUESTER: DDMS I-PH-B VALO92010 VALOE
TEST CODE: SPECIAL

ASSOCIATED DOC: MODE8
TRACKING NO. KING2001 L4614 L4623 R109-83 R6542
R9305
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: METEOROLOGICAL/WEATHER SUPPORT-MODE VIII EXERCISE

A. THE DDMS MODE 8 EXERCISE COORDINATOR AND PARTICIPANTS REQUIRE METEOROLOGICAL FORECAST SUPPORT FOR THE PATRICK AFB, KENNEDY SPACE CENTER AND EXERCISE AREAS BEGINNING ONE DAY PRIOR TO EXERCISE. ADDITIONALLY, THE DDMS EXERCISE COORDINATOR REQUIRES AN EXTENDED 72 HOUR OUTLOOK PRIOR TO EXERCISE PARTICPANTS' DEPLOYMENT.

B. GENERAL WEATHER SUPPORT REQUESTED IS DD FORM 175-1 BRIEFING

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

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[PRD] DATABASE RECORD: 520549
ITEM NUMBER: D27E

INFORMATION AND SEA AND AIR RESCUE FORECAST (SARF) IAW DDMS OPLAN, ANNEX H, APPENDIX 1.

C. PROVIDE ONE WEATHER POINT OF CONTACT TO PRESENT A WEATHER BRIEFING DURING THE EXERCISE PREBRIEF ONE DAY PRIOR TO EXERCISE.

D. EXERCISE FORECAST SCHEDULE AND REPORTING IS IAW DDMS OPLAN, ANNEX H, APPENDIX 1 (SARF).

E. REQUEST CCAFS RANGE WEATHER OPERATIONS PROVIDE DEDICATED EXERCISE AREA MET WATCH DURING THE EXERCISE EMPLOYMENT PHASE. ADVISE THE DOD SOC AT PAFB (COMM 321 853-9161, DSN 467-9161, FAX EXT. 853-4141) OF ANY SIGNIFICANT WEATHER CONDITIONS.

F. SPECIFIC COORDINATION OF REQUIREMENTS WILL BE ACCOMPLISHED BY DDMS-O DURING DETAILED PLANNING FOR EACH EXERCISE.

POINT OF CONTACT: DDMS-W/321 494-7427

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/04/02
RESPONSE TRACKING: Z4631 Z6534 Z9305

[PRD] DATABASE RECORD: 530997 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/18/95
INITIAL DATE: 10/18/95
ITEM NUMBER: K30E DATE LAST CHANGED: 12/07/06
SECTION: 3200 TIME LAST CHANGED: 07:54:58

REQUESTER: KSC
SUBREQUESTER: KT-C
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20017S
TRACKING NO. KING2001 L7305 MK98 R109-83 SCRUB06
PRIORITY: MANDATORY
RATIONALE: TEMPERATURE CONSTRAINTS (SAFETY ISSUE)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

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[PRD] DATABASE RECORD: 530997
ITEM NUMBER: K30E

1. DESCRIPTION: MINIMUM AMBIENT TEMPERATURE LAUNCH COMMIT CRITERION EVALUATION.(L-5 HOURS)

THE SPACE SHUTTLE MISSION MANAGEMENT TEAM (MMT) REQUIRES THE FOLLOWING:

1. EVALUATE THE MINIMUM AMBIENT TEMPERATURE LAUNCH COMMIT CRITERION, NSTS 16007 (4.1), TO DETERMINE GO/NO GO STATUS.

2. SUPPLY QUALITY CONTROLLED LC-39 SIXTY FOOT WEATHER TOWER DATA (TEMPERATURE, RELATIVE HUMIDITY AND WIND SPEED) TO AUTOMATED AND AND (AS BACK UP TO THE AUTOMATED SYSTEM) MANUAL EVALUATION OF THE LOW TEMPERATURE RECOVERY ALGORITHM SPECIFIED IN THE MINIMUM AMBIENT TEMPERATURE LCC.

3. OPERATE THE AUTOMATED RTA ON THE EASTERN RANGE MIDDS SYSTEM AND PROVIDE THE RESULTS TO THE SHUTTLE MMT.

4. PROVIDE FORECASTS OF MOST LIKELY UPPER BOUND VALUES AND MOST LIKELY LOWER BOUND VALUES OF TEMPERATURE, RELATIVE HUMIDITY AND WIND SPEED FOR USE IN ESTIMATING TIME TO RECOVERY FROM VIOLATIONS USING THE RTA.

KSC POINT-OF-CONTACT: JOHN MADURA/KT-C/321 867-0814

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 01/16/96
RESPONSE:
ITEM 1: CAN BE SUPPORTED WITH EXISTING RESOURCES.
ITEM 2: CANNOT BE SUPPORTED DUE TO LACK OF MANPOWER. THIS ITEM CAN BE SUPPORTED WITH ADDITIONAL NASA FUNDING.
ITEM 3: CANNOT BE SUPPORTED DUE TO LACK OF RESOURCES. THIS ITEM COULD BE SUPPORTED IF NASA FURNISHES ANOTHER MIDDS TERMINAL IN THE ROCC TO BE DEDICATED TO LAUNCH-DAY RTA SUPPORT, THE ABILITY TO SUPPORT ITEM 4 CANNOT BE DETERMINED AT THIS TIME. THE FREQUENCY AND BOUNDS OF HTE DATA REQUESTED NEEDS TO BE FURNISHED TO THE RANGE.

RESPONSE TRACKING: Z7312 Z7501

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

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[PRD] DATABASE RECORD: 530997
ITEM NUMBER: K30E

[PRD] DATABASE RECORD: 532216 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/09/96
INITIAL DATE: 05/09/96
ITEM NUMBER: K31E DATE LAST CHANGED: 06/25/07
SECTION: 3200 TIME LAST CHANGED: 09:05:38

REQUESTER: KSC
SUBREQUESTER: KSC/SA-G PH-M TA-C
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20024S 20037S
TRACKING NO. KING2001 L7505 L7705 MK98 R109-83
SCRUB06
PRIORITY: REQUIRED
RATIONALE: MANUAL BACKUP CAPABILITY

1. DESCRIPTION: INCLUDE KSC IN THE EASTERN RANGE METEOROLOGICAL AND RANGE SAFETY SUPPORT (MARSS) SYSTEM(LAUNCH-3 DAYS & LANDING-1 HOUR)

PURPOSE: SUPPORT TOXIC HAZARD SPILLS/RELEASES; MISSIONS WITH RADIOLOGICAL MATERIAL, AND LAUNCH ABORTS/ACCIDENTS. PROVIDE DECISION MAKERS ACCESS TO 24 HOUR PER DAY, REAL TIME ANALYSIS/ PREDICTIONS OF TRANSPORT DIRECTION AND GROUND LEVEL CONCENTRATIONS OF CLOUDS FORMED BY SPILLAGE/RELEASE OF TOXIC CHEMICALS.

PROVIDE MARSS TERMINALS IN: LCC FIRING ROOMS 3 AND 4; ENVIRONMENTAL HEALTH; KSC EMERGENCY OPERATIONS CENTER; AND RADIATION CONTROL CENTER (RADCC).

SYSTEM IS REQUIRED ON A CONTINUOUS BASIS TO SUPPORT AROUND THE CLOCK GROUND OPERATIONS, LAUNCH AND LANDING. PROVIDE SYSTEM MAINTENANCE.

TECHNICAL CONTACT: BURT SUMMERFIELD/TA/321 867-4598
PAUL ROSATI/321 494-3287

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3200 - METEOROLOGY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 532216
ITEM NUMBER: K31E

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/05/96
RESPONSE TRACKING: Z7914

[PRD] DATABASE RECORD: 563970 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/26/02
INITIAL DATE: 08/26/02
ITEM NUMBER: K32E DATE LAST CHANGED: 12/07/06
SECTION: 3200 TIME LAST CHANGED: 10:36:12

REQUESTER: KSC
SUBREQUESTER: IT-D2-C KT-C
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20028S 25044S 25214A
25217A
TRACKING NO. L112-1 R112-10 SCRUB06
PRIORITY: MANDATORY
RATIONALE: PERSONNEL SAFETY

1. DESCRIPTION: CCAFS WEATHER FEED AT KSC

PROVIDE VIDEO FEED OF WEATHER DATA ON A ROTARY TO KSC FROM RANGE WEATHER OPERATIONS AT CCAFS TO TRANSMIT WEATHER GRAPHICS DATA TO OPERATIONAL MANAGERS, LAUNCH DIRECTORS, TEST CONDUCTORS, LAUNCH MANAGERS, EMERGENCY PREPAREDNESS MANAGERS, SAFETY PERSONNEL, AND OTHER DECISION MAKERS AT KSC. THE FEED IS REQUIRED CONTINUOUSLY 24 HOURS/DAY, 7 DAYS/WEEK, 365 DAYS/YEAR. THE WEATHER GRAPHICS DISPLAYS FACILITATE THE RAPID AND ACCURATE COMPREHENSION OF THE TYPE, LOCATION, AND SEVERITY OF WEATHER CONDITIONS FORECASTED, ADVISED, AND/OR WARNED ON BY THE RANGE WEATHER OFFICE. THE DISPLAYS AID DECISION MAKERS RESPONSIBLE FOR THE SAFETY OF KSC PERSONNEL. THEY ALSO SUPPORT OUR REGULARLY SCHEDULED TELECONFERNCES WITH RANGE WEATHER OPERATIONS, AS WELL AS LAUNCHES; LANDINGS; FERRY FLIGHTS AND OHTER AIRCRAFT OPERATIONS; WEATHER SENSITIVE GROUND OPERATIONS SUCH AS PAYLOAD AND SRB MOVES, ROLLOUTS, ROLLOVERS, ETC.; HAZARDOUS CHEMICAL OPERATIONS; AND AD HOC PLANNING.

TECH CONTACT: CHUCK BROWN/IT-D2-C/321 867-2090
ER: MIKE GAWEL/321 853-8118

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3200 - METEOROLOGY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 563970
ITEM NUMBER: K32E

KATHY WINTERS/45WS/DOR/321 853-8107

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/13/02
RESPONSE: FUNDING SOURCE JON 22000000

RESPONSE TRACKING: Z112-14

[PRD] DATABASE RECORD: 563971 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/26/02
INITIAL DATE: 08/26/02
ITEM NUMBER: K33E DATE LAST CHANGED: 01/12/07
SECTION: 3200 TIME LAST CHANGED: 12:48:30

REQUESTER: KSC
SUBREQUESTER: IT-D2-C KT-C
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20028S 25214A 25217A
TRACKING NO. L112-1 R112-10 SCRUB06
PRIORITY: MANDATORY
RATIONALE: PERSONNEL SAFETY

1. DESCRIPTION: WEATHER VIDEO FEED

PROVIDE A VIDEO FEED FOR CONTINUOUS DISPLAY OF WEATHER RADAR DATA. THE ROTARY DOES NOT ALWAYS CONTAIN RADAR DATA, OR IS JUST ONE OF MANY ROTATING GRAPHICS, EACH WITH LIMITED DISPLAY TIME. CURRENT RADAR DATA IS CRITICAL IN ASSESSING THE PROXIMITY OF AND LIKELIHOOD OF HAZARDOUS WEATHER. THE CONTINUOUS FEED RADAR DATA FACILITATES THE REAL-TIME COMPREHENSION OF THE TYPE, LOCATION, AND SEVERITY OF HAZARDOUS WEATHER CONDITIONS AS FORECASTED, ADVISED, AND/OR WARNED ON BY THE RANGE

WEATHER OPERATIONS. RADAR DATA IS UPDATED EVERY 2 1/2 MINUTES; IT IS VERY PERISHABLE AND MUST BE AVAILABLE IMMEDIATELY ON CALL TO ENSURE SAFE OPERATIONAL AND PERSONNEL SAFETY DECISIONS.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3200 - METEOROLOGY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 563971
ITEM NUMBER: K33E

TECHNICAL CONTACT: CHUCK BROWN/IT-D2-C/321 867-2090
ER: MIKE GAWEL/321 853-8118
KATHY WINTERS/45WS/DOR/321 853-8107

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/13/02
RESPONSE: FUNDING JON 22000000

RESPONSE TRACKING: Z112-14

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3220 - METEOROLOGICAL FORECASTS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 232380 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/07/92
INITIAL DATE: 07/24/89
ITEM NUMBER: K3E DATE LAST CHANGED: 12/07/06
SECTION: 3220 TIME LAST CHANGED: 10:37:26

REQUESTER: KSC
SUBREQUESTER: I-PH-B USK-299 VAL92008 VALE
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20007S 20009S 20014S 20017S
20028S 20037S 25009S
TRACKING NO. KING2001 L2828 L4519 L5216 MK98
R109-84 R26102 R2809 SCRUB06
PRIORITY: MANDATORY
RATIONALE: SAFETY ISSUE.

1. TIME REQ'D: USA DUTY OFFICER WILL CALL 853-8485 TO OBTAIN AN INITIAL FORECAST 72 HOURS PRIOR TO TEST UPDATED AS REQUIRED THROUGHOUT TEST. REALTIME OBSERVATIONS DURING THE TEST TO BE RECORDED. (L-3 DAYS)
2. FORECAST PARAMETERS; TYPE DATA, SURFACE, UPPER AIR, ALTITUDE, INTERVAL:
   A. ELECTRICAL STORM WITHIN 5 MILES
   B. SURFACE WIND DIR. STEADY STATE & PEAK VELOCITY
   C. CLOUD COVER, VISIBILITY
   D. WIND DIRECTION, VELOCITY AND SHEARS FROM SURFACE TO 100 THOUSAND FEET
   E. RELATIVE HUMIDITY, DEW POINT
   F. AMBIENT AIR TEMPERATURE
   G. RAIN-HAIL
   H. SEA STATE
3. VALID TIME:
4. LOCATION:
   A. PAD, SLF
   B. PAD, SLF AND SRB RECOVERY
   C. PAD, SLF AND SRB RECOVERY
   D. PAD B
   E. PAD B
   F. PAD B
   G. PAD B
5. PURPOSE/

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3220 - METEOROLOGICAL FORECASTS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 232380
ITEM NUMBER: K3E

REMARKS: DATA WILL BE PROVIDED TO SUPPORT DUTY OFFICER(SDO) (867-4910) AND DISSEMINATED TO THE TEST TEAM. SDO WILL ADVISE RWO DUTY FORECASTER OF WEATHER CONSTRAINTS AND TIME PERIOD OF OPERATION.

TECH CONTACT: RICK MERRITT/USK-299/321 861-2373
KATHY WINTERS/45WS/DOR/321 853-8107

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/07/92
RESPONSE TRACKING: Z28102 Z4536 Z5217

[PRD] DATABASE RECORD: 246725 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/02/91
INITIAL DATE: 10/04/89
ITEM NUMBER: K4E DATE LAST CHANGED: 12/07/06
SECTION: 3220 TIME LAST CHANGED: 10:39:10

REQUESTER: KSC
SUBREQUESTER: I-PH-B KSC/PH-L VAL92007 VAL92008
VALE
TEST CODE: EAFB KSC STSALL

ASSOCIATED DOC: 20007S 20014S 20026S 20028S
TRACKING NO. KING2001 L2643 L3434 MK98 R109-84
R4418 R4803 SCRUB06
PRIORITY: REQUIRED
RATIONALE: MANUAL CALCULATIONS

1. TIME REQ'D: CONTINUOUS DURING DAILY HAZARDOUS OPERATIONS, SHUTTLE ON PAD AND SHUTTLE LANDING. (L-3 DAYS)

2. FORECAST PARAMETERS; TYPE DATA, SURFACE, UPPER AIR, ALTITUDE, INTERVAL: TOXIC HAZARDOUS CORRIDORS (THC) COMPUTED VIA

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3220 - METEOROLOGICAL FORECASTS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 246725
ITEM NUMBER: K4E

MARSS/ERDAS (ER) AND AFTOX (EAFB) USING COLD-SPILL

DISPERSION METHODS AND LOW LEVEL WIND FORECAST.
FOR SHUTTLE ON PAD AND SHUTTLE LANDING,
CONTINUOUSLY MONITOR THE FOLLOWING WORST
CASE TOXICS:

HYPERGOL	EVAP RATE	EEL	PEL	AMT SPILLED
MMH	16 LB/MIN	5.0	0.2	50 GAL.
N2O4	80 LB/MIN	3.0	1.0	50 GAL.
N2H4	16 LB/MIN	2.0	0.1	50 GAL.

NOTE: SPC SAFETY WILL PROVIDE INPUT OR USE
MARSS/ERDAS AND/OR AFTOX DEFAULTS FOR
TOXIC OPERATIONS.

3. VALID TIME:
4. LOCATION: KSC INDUSTRIAL AREA, VAB AREA, PAD 39 AREAS,
SLF AND EAFB.
5. PURPOSE/
REMARKS: PROVIDE 24 HOUR PER DAY REAL-TIME PREDICTION OF
TRANSPORT DIRECTION AND CONCENTRATION LEVELS OF
GROUND CLOUDS FORMED BY SPILLAGE OF TOXIC FLUIDS.
PREPLANNED THCs WILL ALLOW FOR QUICKER RESPONSES.
AT KSC, SFOC SAFETY WILL CALL 853-8492 AND AT EAFB,

SPC SAFETY WILL CALL 205 277-4318 FOR UPDATES
AS REQUIRED. SPC SAFETY WILL PROVIDE REAL-TIME
SPILL INFORMATION AS TIME ALLOWS FOR
EMERGENCIES/ACCIDENTS.

TECH CONTACT: PETE NICKOLENKO/PH-L/321 861-9307
KATHY WINTERS/45WS/DOR/321 853-8107

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/02/91

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3220 - METEOROLOGICAL FORECASTS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 246725
ITEM NUMBER: K4E

RESPONSE TRACKING: Z26184 Z3473 Z4416 Z4803

[PRD] DATABASE RECORD: 268727
DOCUMENT ID: LLS
ITEM NUMBER: K9E
SECTION: 3220

REQUIREMENT STATUS: APPROVED
APPROVAL DATE: 06/09/94
INITIAL DATE: 07/24/89
DATE LAST CHANGED: 12/07/06
TIME LAST CHANGED: 14:28:27

REQUESTER: KSC
SUBREQUESTER: I-PH-B USK-299 VAL92008 VALE
TEST CODE: KSC STSALL

ASSOCIATED DOC: 25214A
TRACKING NO. DB98 KING2001 L2828 L4519 L6501
R109-84 R26102 SCRUB06 SHAW94

1. TIME REQ'D:
   A. USA DUTY OFFICER WILL CALL 853-8485 TO OBTAIN AN INITIAL FORECAST 24 HOURS PRIOR TO TRANSFER.

   UPDATE AS REQUIRED.

   B. OBTAIN CURRENT REPORT DURING TRANSFER.

2. FORECAST PARAMETERS; TYPE DATA, SURFACE, UPPER AIR, ALTITUDE, INTERVAL:
   STANDARD RANGE FORECAST INFORMATION WITH EMPHASIS ON WIND AND LIGHTNING POTENTIAL.

   A. WIND DIRECTION: DEGREE:
   WIND SPEED AND GUSTS: KTS AT SURFACE:

   B. WEATHER: CURRENT PRECIPITATION, THUNDERSTORMS AND LIGHTNING WITHIN 20NM DURING TRANSFER.

3. VALID TIME: CURRENT AND REAL TIME
4. LOCATION: VAB, CRAWLERWAY, PAD A AND PAD B
5. PURPOSE/ REMARKS: TO DETERMINE ACCEPTABILITY TO PROCEED WITH ROLLOUT AND TRANSFER TO PAD.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3220 - METEOROLOGICAL FORECASTS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 268727
ITEM NUMBER: K9E

DATA WILL BE PROVIDED TO USA DUTY OFFICER,
867-4910) AND DISSEMINATED TO THE TEST
TEAM THROUGH THE SUPPORT TEST MANAGER (STM) 24
HOURS PRIOR TO TRANSFER AND DURING TRANSFER.

STM OR HIS REPRESENTATIVE WILL ADVISE RWO DUTY
FORECASTER OF WEATHER CONSTRAINTS AND TIME PERIOD
OF OPERATION DURING TRANSFER.

TECH CONTACT: RICK MERRITT/USK-299/321 861-2373
JOHN MADURA/KT-C/321 867-0814

RATIONALE: (M) - SAFETY REQUIREMENT FOR CRITICAL
RESOURCE PROTECTION.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/09/94
RESPONSE TRACKING: Z2660 Z28102 Z4536 Z6561

[PRD] DATABASE RECORD: 314737 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/14/89
INITIAL DATE: 09/14/89
ITEM NUMBER: K10E DATE LAST CHANGED: 12/07/06
SECTION: 3220 TIME LAST CHANGED: 10:40:31

REQUESTER: KSC
SUBREQUESTER: I-PH-B KSC/PH-L USK-299 VAL92007
VAL92008 VALE
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20004S
TRACKING NO. DB98 KING2001 L3402 R109-84 SCRUB06
PRIORITY: MANDATORY
RATIONALE: SAFETY REQUIREMENT FOR CRITICAL RESOURCE PROTECTION.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3220 - METEOROLOGICAL FORECASTS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 314737
ITEM NUMBER: K10E

1. TIME REQ'D: START OF OMI S0004
2. FORECAST PARAMETERS; TYPE DATA, SURFACE, UPPER AIR, ALTITUDE, INTERVAL: LIGHTNING WITHIN 5 MILES OF THE OPF/VAB; RAIN AND WIND (SPEED AND DIRECTION) IN THE OPF/VAB AREA

3. VALID TIME: DURING ORBITER TOW
4. LOCATION: OPF/VAB
5. PURPOSE/ REMARKS: 316001R CONDITIONS REQUIRED TO SUPPORT DECISION TO BEGIN ORBITER TOW.

DATA WILL BE PROVIDED TO USA DUTY OFFICER, 867-4910 AND DISSEMINATED TO THE TEST TEAM THROUGH THE SUPPORT TEST MANAGER (STM)

TECH CONTACT: RICK MERRITT/USK-299/321 861-2373
JOHN MADURA/KT-C/321 867-0814
KATHY WINTERS/45WS/DOR/321 853-8107

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/14/89
RESPONSE TRACKING: Z3443

[PRD] DATABASE RECORD: 348076 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/09/91
INITIAL DATE: 05/05/88
ITEM NUMBER: K13E DATE LAST CHANGED: 12/07/06
SECTION: 3220 TIME LAST CHANGED: 10:41:02

REQUESTER: KSC
SUBREQUESTER: I-PH-B KSC/PH-L USK-705
TEST CODE: KSC RETREV STSALL

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3220 - METEOROLOGICAL FORECASTS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 348076
ITEM NUMBER: K13E

ASSOCIATED DOC: 20007S 25407B
TRACKING NO. KING2001 L3710 MK98 R109-84 R26158
R2695 SCRUB06
PRIORITY: REQUIRED
RATIONALE: BACKUP - MULTIPLE SOURCES OF DATA.

1. TIME REQ'D: L-48 HOURS, AND UPON REQUEST THROUGH SRB RETRIEVAL - 24 HOUR PROJECTION
2. FORECAST PARAMETERS; TYPE DATA, SURFACE, UPPER AIR, ALTITUDE, INTERVAL: WIND SPEED AND DIRECTION, SEA STATE (DIRECTION AND HEIGHT), STORM OR SQUALL ACTIVITY, SEA AND AIR TEMPERATURES, VISIBILITY
3. VALID TIME: 0 - 24 HOURS
4. LOCATION: AT SEA WITHIN 150 N.M. OF CAPE CANAVERAL
5. PURPOSE/ REMARKS: SUPPORT SRB RETRIEVAL

NOTIFY THE SRB BOOSTER RETRIEVAL DIRECTOR, 321 853-2404/321-853-7586

POINT OF CONTACT: KATHY WINTERS/45WS/DOR/321 853-8107
LRD/321-861-9300

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/20/91
RESPONSE TRACKING: Z2641 Z3723

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3220 - METEOROLOGICAL FORECASTS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD:	13054	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	LLS	APPROVAL DATE:	07/18/06
		INITIAL DATE:	06/03/88
ITEM NUMBER:	T17E	DATE LAST CHANGED:	10/27/06
SECTION:	3220	TIME LAST CHANGED:	08:19:40

REQUESTER:	JSC			
SUBREQUESTER:	I-PH-B	JSC/WS8	VALO92008	VALOE
TEST CODE:	CCAFS	EAFB	KSC	SLF
	STSALL	SUPSIM		

ASSOCIATED DOC:	20017S	20026S	20027S		20028S
TRACKING NO.	KING2001	L06-10-2	L06-6-4	L110-1	L203-2
	L2606	L2811	L3031	L3441	L409-5
	L4505	L6825	L710-1	L903-7	L904-11
	L907-6	R0607-5	R0610-3	R109-84	R26181
	R2661	R2809	R3001	R4422	R8701
PRIORITY:	REQUIRED				
RATIONALE:	MISSION SUPPORT				

1. DESCRIPTION: ON ORBIT SUPPORT

11. LOCATION: KSC, AND EAFB

12. TIME REQ: A. EACH SITE WILL ISSUE THEIR NORMAL FORECASTS FOR A 24 HR. PERIOD ON THEIR NORMAL TAF FORMAT AND TIME EAFB WILL ISSUE ONE FORECAST DAILY PRIOR TO 1100Z ON NON-DUTY DAYS SUCH AS WEEKENDS, HOLIDAYS, AND MILITARY DOWN DAYS.

NOTE:
REAL-TIME SCHEDULE OR WEATHER CHANGES WILL BE VIA PHONE OR COMM LOOP. AMENDMENTS WILL FOLLOW STANDARD CRITERIA.

13. DATA DISPOSITION:
ALL PARAMETERS ARE TO BE RELAYED TO JSC/SMG THROUGH NATIONAL WEATHER COMMUNICATIONS NETWORK, METEOROLOGICAL INTERACTIVE DATA DISPLAY SYSTEM (MIDDS) COMMUNICATIONS LINES, OR VOICED VIA COMMERCIAL PHONE DUE TO TIME OR EQUIPMENT CONSTRAINTS.

14. REMARKS: ALL PARAMETERS ARE REQUIRED TO DETERMINE ACCEPTABILITY OF LANDING WEATHER FOR PLANNING

CONTINUED

[PRD] DATABASE RECORD: 13054
ITEM NUMBER: T17E

PURPOSES.

COORDINATION: JSC/WS8/TIM GARNER/281 483-1046

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB ER WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/18/06
RESPONSE TRACKING: Z26133 Z2719 Z29105 Z3481 Z4441
Z4520 Z6826 Z8701

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3230 - METEOROLOGICAL OBSERVATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 3459 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/16/89
INITIAL DATE: 06/16/89
ITEM NUMBER: E2G DATE LAST CHANGED: 12/06/06
SECTION: 3230 TIME LAST CHANGED: 13:09:22

REQUESTER: ER
SUBREQUESTER: I-PH-B
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 R109-67 R2880
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: MET OBS AT GSFC RADAR SITES

ALL GSFC RADAR SITES RECORD THE FOLLOWING ON RADAR LOGS AND FORWARD TO ER ALONG WITH THE RADAR DATA:
1. ATMOS PRESS (MB).
2. TEMP DRY BULB (DEG F).
3. TEMP WET BULB (DEG F).

NOTE 1. INDEX OF REFRACTION MAY BE PROVIDED INSTEAD OF THE ABOVE.
NOTE 2. DATA TO BE TAKEN AS NEAR PASS TIME AS PRACTICAL.

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	ENTRY ON LOG	1	ASAP	45 SW

POINT OF CONTACT: DAVE SIMONSON/CSR-3200/321-853-8262

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/30/89
RESPONSE TRACKING: Z2866

[PRD] DATABASE RECORD: 3461 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/25/03
INITIAL DATE: 06/10/88
ITEM NUMBER: T3E DATE LAST CHANGED: 12/18/06

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3230 - METEOROLOGICAL OBSERVATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 3461
ITEM NUMBER: T3E

SECTION: 3230 TIME LAST CHANGED: 13:34:43

REQUESTER: JSC
SUBREQUESTER: I-PH-B JSC/WS8
TEST CODE: CCAFS EAFB KSC RTLS
S0027.001 SLF STSALL SUPSIM
WSSH

ASSOCIATED DOC: 20007S 20017S 20026S 20027S
20028S

TRACKING NO.	KING2001	L003-3	L03-4-2	L06-10-2	L06-11-7
	L110-1	L111-3	L204-8	L210-4	L2604
	L310-1	L409-2	L409-5	L4408	L4518
	L4947	L503-1	L507-4	L5227	L5808
	L606-1	L607-2	L6821	L6825	L7903
	L805-1	L904-1	L908-12	L9603	MK98
	R03-04-2	R0610-3	R109-67	R26181	R26184
	R2661	R3123	R3445	R4422	R7102
	R7901	RSRR8804	SHAW95		

PRIORITY: MANDATORY
RATIONALE: SEE DESIGNATION/RATIONALE FOR BREAK DOWN OF PRIORITY.

1. DESCRIPTION: SURFACE OBSERVATIONS..CONUS..LAUNCH, RTLS, AOA,
1ST DAY PLS, EOM

DATA REQUIRED: SURFACE METEOROLOGICAL OBSERVATIONS

SURFACE OBSERVATIONS WILL BE TAKEN IN ACCORDANCE WITH FMH-1 AND/OR AFMAN 15-111 TO INCLUDE: CLOUD AMOUNT/HEIGHT, VISIBILITY/RESTRICTIONS TO VISIBILITY, SEA LEVEL PRESSURE, TEMPERATURE, DEWPOINT, SURFACE WIND DIRECTION AND SPEED, ALIMETER SETTING, AND COMPLETE REMARKS.

A. SURFACE OBSERVATIONS REMARKS TO INCLUDE:

1) PROPERLY IDENTIFIED WIND DATA FROM EACH RUNWAY SENSOR AND GUSTS OR PEAK WINDS AS AVAILABLE. FOR EDW, INCLUDE RUNWAY SENSOR DATA

IN REMARKS ONLY WHEN WIND TOWER DATA IS NOT BEING RECEIVED IN JSC MIDDS. WIND SPEED AND DIRECTION WILL BE FOR A TEN MINUTE PERIOD.

CONTINUED

[PRD] DATABASE RECORD: 3461
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2) REMARKS TO INCLUDE SECTOR VISIBILITY, PERTINENT TO THE LANDING FIELD/RUNWAY TO BE USED. KSC WILL CARRY TOWER VISIBILITY IN REMARKS, IF DIFFERENT FROM STATION B VISIBILITY FROM L-4 TO RTLS AND FROM TD-4 UNITL TOUCHDOWN.

3) REMARKS PERTINENT TO CLOUD COVER THAT CAN OR WILL IMPACT LANDING FIELD/RUNWAY TO BE USED, INCLUDING CUMULONIMBUS AND/OR CUMULUS CONGESTUS WITHIN THIRTY (30) NAUTICAL MILES; ADVECTION, FORMATION, OR DISSIPATION OF SIGNIFICANT CLOUD COVER WILL BE REPORTED. CLOUD COVER OF EIGHTHS AND TYPE FOR ALL CLOUD LAYERS BELOW 8,000 FT WILL BE CARRIED ON ALL HOURLY AND LAUNCH/LANDING SPECIAL OBSERVATIONS FROM THE KSC SLF. TOTAL CLOUD COVER IN EIGHTHS BELOW 8,000 FT WILL FOLLOW AND BE REPORTED IN PARENTHESIS.

4) FOR KSC HOURLY OBSERVATIONS ONLY, REMARK DESCRIBING CIRRIFORM CLOUDS OBSERVED OVERHEAD AS TRANSPARENT (THIN) OR NONTRANSPARENT. THIS DETERMINATION CAN BE MADE THROUGH BREAKS IN LOWER CLOUD DECKS AND REPRESENTS A BEST ESTIMATE OF THE CLOUDS TRANSPARENCY. A CLOUD IS CONSIDERED TRANSPARENT WHEN HIGHER CLOUDS, BLUE SKY, STARS, THE SUN DISK, ETC. CAN BE DISTINCTLY SEEN FROM BELOW OR IF THE SUN CASTS DISTINCT SHADOWS OF OBJECTS ON THE GROUND. OVERHEAD IS DEFINED AS A CIRCLE CENTERED OVER THE OBSERVER 60 DEGREES ABOVE THE HORIZON.

THN CS OVHD FOR TRANSPARENT (THIN) CIRROSTRATUS

CS OVHD FOR NONTRANSPARENT CIRROSTRATUS CI OR CC USED INSTEAD OF CS WHEN THAT CIRRIFORM CLOUD TYPE IS DOMINANT.

B. SPECIAL OBSERVATION WILL BE TAKEN IN ACCORDANCE WITH FMH-1 AND/OR AFMAN 15-111 ADDITIONAL SHUTTLE SPECIAL OBSERVATIONS TAKEN, RECORDED AND TRANSMITTED WHEN THE FOLLOWING VALUES DECREASE TO LESS THAN, OR IF BELOW, INCREASES TO EQUAL OR EXCEED:

1) VISIBILITY: 7 & 5 STATUTE MILES

CONTINUED

[PRD] DATABASE RECORD: 3461
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2) CEILING: 8,000 FEET

3) WHEN ANY PRECIPITATION BEGINS OR ENDS.

ADDITIONAL CRITERIA FOR KSC:

1) VISIBILITY: 4 STATUTE MILES

2) CEILING: 5,000 FEET

NOTE: IN THE EVENT THAT RUNWAY SENSOR WIND DATA IS NOT BEING RECEIVED IN JSC MIDDS, THE FOLLOWING PROCEDURES WILL BE FOLLOWED:

SPECIALS FOR WIND SPEED AND/OR DIRECTION ARE TO BE TAKEN BEGINNING L-3 HOURS UNTIL RTLS AND/OR AOA ARE NOT REQUIRED, AND FROM TD-3 HOURS THROUGH TOUCHDOWN, OR UNTIL SITE IS RELEASED FOR EOM SUPPORT. KSC WILL CARRY PEAK WINDS FOR THE PAST 15 MINUTES IN REMARKS, IF REQUESTED BY SMG.

11.A. TIME: LAUNCH, RTLS, AOA, PLS

REQUIRE DEDICATED OBSERVATION SUPPORT TWENTY FOUR (24) HOURS DAILY WITH THE OBSERVATIONS TRANSMITTED AS FOLLOWS:

"*L-48" HOURS UNTIL L-3 HOURS:	EVERY HOUR ON THE HOUR
L-3 HOURS UNTIL L-1 HOUR:	EVERY THIRTY MINUTES ON THE HOUR & 1/2 HOUR
L-1 HOUR THROUGH RTLS:	EVERY 15 MINUTES
RTLS THROUGH AOA:	EVERY 30 MINUTES
AOA THROUGH 1ST DAY PLS:	EVERY HOUR

NOTE 1: REQUIRE SPECIAL OBSERVATION AT L+25 WHEN RTLS WOULD OCCUR.

NOTE 2: IF AOA OR PLS IS DECLARED: OBSERVATIONS EVERY 15 MINUTES UNTIL LANDING, INCLUDING A SPECIAL OBSERVATION AT LANDING TIME.

NOTE 3: IN THE EVENT OF A LAUNCH SCRUB: A SPECIAL OBSERVATION WILL

CONTINUED

[PRD] DATABASE RECORD: 3461
ITEM NUMBER: T3E

BE TAKEN AT SCRUB DECISION TIME + 25 MINUTES. IF THE SCRUB OCCURS PRIOR TO THE OPENING OF THE LAUNCH WINDOW, A SPECIAL OBSERVATION WILL BE TAKEN AT THE SCHEDULED OPENING OF THE LAUNCH WINDOW (L-0), AND ANOTHER SPECIAL OBSERVATION AT L+25 MINUTES.

"* NOTE 4: FOR EDW, BEGIN OBSERVATION AT L-24 HRS."

11.B. TIME: END OF MISSION (EOM)

REQUIRE DEDICATED OBSERVATION SUPPORT TWENTY FOUR (24) HOURS DAILY WITH THE OBSERVATIONS TRANSMITTED TO JSC/SMG AS FOLLOWS:

* TD-48 HOURS UNTIL TD-3 HOURS ... OBSERVATIONS EVERY HOUR ON THE HOUR
TD-3 HOURS UNTIL LANDING ..... OBSERVATIONS EVERY FIFTEEN MINUTES

OBSERVATIONS WILL BE COMMUNICATED VIA NORMAL WEATHER CIRCUITS AND/OR BY PHONE FOR THE PERIOD TD-3 HOURS UNTIL LANDING. LANDING TIMES WILL BE COORDINATED THROUGH SMG.

A SPECIAL OBSERVATION WILL BE TAKEN FOR ALL SCHEDULED LANDING OPPORTUNITIES ON LANDING DAY WHETHER OR NOT A LANDING TAKES PLACE. THIS INCLUDES POST TOUCHDOWN OPPORTUNITIES, WAVE-OFF, AND POST WAVE-OFF OPPORTUNITIES.

FOR POST-LANDING OR POST WAVE-OFF OPPORTUNITIES THAT OCCUR WITHIN 5 MINUTES OF A REGULAR SCHEDULED OBSERVATION, THE SPECIAL OBSERVATION CAN BE TAKEN AT THE REGULAR SCHEDULED TIME, BUT MUST INCLUDE READINGS FROM ALL THREE WIND TOWERS.

NOTE 1: WHEN ANY OBSERVED WEATHER ELEMENT CHANGES FROM WITHIN LIMITS TO OUT OF LIMITS, A SPECIAL WEATHER OBSERVATION WILL BE TAKEN AND TRANSMITTED. TIMES WILL BE UNSCHEDULED, DEPENDING ON WHEN THE PARAMETER CHANGES. WITHIN LAST THREE (3) HOURS SINGLE ELEMENT SPECIALS MAY BE TAKEN FOR PHENOMENA PASSING THROUGH SPECIAL CRITERIA.

* NOTE 2: WSSH ONLY REQUIRED FOR EOM, CONTINGENT UPON 24 HOURS ADVANCE NOTICE. IN THIS CASE, WSSH WILL START OBSERVATIONS AT TD-8

CONTINUED

[PRD] DATABASE RECORD: 3461
ITEM NUMBER: T3E

HOURS.

12. LOCATION:

KSC... VISIBILITY OBSERVATION FROM THE SHUTTLE LANDING FIELD TO DETECT RESTRICTIONS TO VISIBILITY FROM L-4 THROUGH RTLS, DURING HOURS OF DARKNESS UNTIL 1000L, OTHERWISE, FROM WX STATION B SITE UNLESS REQUESTED FROM THE SLF BY JSC/SMG. TD-4 THROUGH TD, SLF OBSERVATIONS WILL CARRY SLF TOWER VISIBILITY IN REMARKS, IF DIFFERENT FROM STATION B VISIBILITY.

EAFB ... OBSERVATION TAKEN NEAR BASE WEATHER STATION INCLUDING SURFACE WIND DATA FROM DESIGNATED PRIMARY AND ALTERNATE RUNWAY.

WSSH ... OBSERVATION FROM THE NORTHRUP STRIP LAKEBED RUNWAY COMPLEX.

13. DATA DISPOSITION: DATA WILL BE TRANSMITTED VIA NORMAL WEATHER CIRCUITS AND/OR BY PHONE AND/OR WEATHER NET VOICE LOOP.

DATA ACCURACY: IN ACCORDANCE WITH NWS/AWS STD. GUIDELINES & FMH-1B AND/OR AFMAN 15-111.

14. EQUIPMENT CALIBRATION:

ALL EQUIPMENT USED TO PRODUCE DATA FOR SHUTTLE OFFICIAL WEATHER OBSERVATIONS AND/OR TRANSMITTED TO JSC WILL BE MAINTAINED AND CALIBRATED TO MEET OR EXCEED MANUFACTURERS SPECIFICATIONS AND/OR TO AWS/NWS STANDARDS.

15. JSC FLIGHT DIRECTOR'S OFFICE REQUESTS THAT EIGHTHS OF CLOUD COVER BELOW 8,000 FT. BE APPENDED TO HOURLY SURFACE OBSERVATIONS FROM THE KSC SLF DAILY, YEAR ROUND, AND TRANSMITTED VIA STANDARD COMMUNICATIONS TO JSC, SMG. THIS WILL ALSO BUILD A WORKING DATA BASE OF CLOUD CLIMATOLOGY AT KSC SLF FOR USE IN SMG END OF MISSION FORECASTS.

COORDINATION: JSC/WS8/TIM GARNER/281 483-1046

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[PRD] DATABASE RECORD: 3461
ITEM NUMBER: T3E

DESIGNATION/RATIONALE BROKEN DOWN AS FOLLOWS:

TIME NEEDED	DESIG	RATIONALE
L-36 HOURS THRU L-6 HRS	R	RTLS/AOA/ 1ST DAY PLS FORECAST PREPARATION
L-6 HRS THRU 1ST DAY PLS	M	RTLS/AOA/1ST DAY PLS WEATHER ANALYSIS AND EVALUATION (*)
TD-6 HRS THRU EOM	M	LANDING SITE WEATHER ANALYSIS AND EVALUATION

(*) - ACCEPTING "NO GO" FOR 1ST PLS INCREASES TAL EXPOSURE BY 10 TO 12 SECONDS.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB ER WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/25/03
RESPONSE TRACKING: Z26133 Z2644 Z2719 Z3123 Z3137
Z3446 Z4443 Z4954 Z5229 Z5826
Z6303 Z6915 Z7001 Z7911 Z9319

[PRD] DATABASE RECORD: 3562 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/17/96
INITIAL DATE: 05/01/86
ITEM NUMBER: H4E DATE LAST CHANGED: 12/07/06
SECTION: 3230 TIME LAST CHANGED: 14:33:17

REQUESTER: MSFC
SUBREQUESTER: I-PH-B MS243 MS249 VALO92005
VALOE
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 L3329 L4908 L7803 L906-8
R109-67 R2886 R8002 SCRUB06

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3230 - METEOROLOGICAL OBSERVATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 3562
ITEM NUMBER: H4E

PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: SURFACE OBS-ROLLOUT VAB TO PAD
DATA REQ'D: STANDARD SURFACE WEATHER OBSERVATIONS
SURFACE;
TIME-MIN: HOURLY FROM DEPARTING VAB TO LAUNCH + 3 HRS & AT L-0.
LOCATION: VICINITY OF LAUNCH PAD AND CCAFS
UPPER AIR;
TIME-MIN:
LOCATION:
INTERVAL:
ALT-K FT:
DATA PRIORITY:
DATA ACCURACY;
VALUE:
CLASS:
PURPOSE/REMARKS: DATA OBTAINED FROM AWDS, REQUIRE COPY OF AF3803
FORMS FROM L-24 TO L+3 HOURS.
DATA DISPOSITION:
1. USAF/WIND TOWER SYSTEM DATA (1 MIN. AVG.) AT L-5 MIN. AND AT
L-0 TO MSFC.
2. DATA TO BE AVAILABLE ON MIDDS.
3. AF3803 FROM XMR FAXED TO MSFC (RYAN DECKER/EV13
256 544-3068, FAX 256 544-0242) BY PROVIDER.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/26/96
RESPONSE TRACKING: Z2719 Z2869 Z3342 Z4945 Z7911
Z8005

[PRD] DATABASE RECORD: 3563 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/21/02
INITIAL DATE: 06/27/88
ITEM NUMBER: H6E DATE LAST CHANGED: 12/07/06
SECTION: 3230 TIME LAST CHANGED: 14:34:05

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3230 - METEOROLOGICAL OBSERVATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 3563
ITEM NUMBER: H6E

REQUESTER: MSFC
SUBREQUESTER: I-PH-B MS213 MS243 VALO92005
VALOE
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20007S 20014S 20037S
TRACKING NO. KING2001 L7803 R109-67 R26196 SHAW95
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: MET OBS-PAD WIND DATA

DATA REQ'D: 1 MIN. MEAN WIND SPEED AND DIRECTION. PEAK WIND SPEED DURING PAST HOUR. MEAN WIND VALUES COMPUTED FROM HOUR MINUS 1 MIN. TO HOUR.
SURFACE:
TIME-MIN: HOURLY FROM WIND AND THERMODYNAMICS SENSORS THRU DETANKING OR LAUNCH INCLUDING A READING AT L-0.
LOCATION: LAUNCH COMPLEX MEASUREMENTS FROM WIND SENSORS ON TWO 60-FT LIGHT POLES.
UPPER AIR:
IME-MIN:
LOCATION:
INTERVAL:
ALT-K FT:
DATA PRIORITY:
DATA ACCURACY:
VALUE:
CLASS:
PURPOSE/REMARKS: DATA TO MSFC/EV13/RYAN DECKER/256 544-3068

DATD DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	MIDDS AND/OR HARDCOPY		NRT	MSFC RYAN DECKER FAX NO: 256 544-0242

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3230 - METEOROLOGICAL OBSERVATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 3563
ITEM NUMBER: H6E

RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/07/02
RESPONSE TRACKING: Z7705 Z7911

[PRD] DATABASE RECORD: 8934 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/27/06
INITIAL DATE: 10/08/91
ITEM NUMBER: T6.1DK DATE LAST CHANGED: 05/30/07
SECTION: 3230 TIME LAST CHANGED: 10:33:00

REQUESTER: JSC
SUBREQUESTER: I-PH-B JSC/WS8
TEST CODE: ALS ISTRES MORON STSALL
SUPSIM TAL ZARAGOZA

ASSOCIATED DOC: 20007S 20029S 20057S 20070S
TRACKING NO. KING2001 L004-1 L06-10-2 L101-3 L110-1
L114-3 L208-1 L2606 L310-1 L3301
L3415 L3848 L4706 L5808 L909-4
L910-6 R0610-3 R109-67 R26181 R2661
R4422
PRIORITY: MANDATORY
RATIONALE: WEATHER OBSERVATIONS

1. DESCRIPTION: SURFACE WEATHER OBSERVATIONS - TAL

LOCATION: MORON, SPAIN; ZARAGOZA, SPAIN AND
ISTRES, FRANCE

DATA REQUIRED: SURFACE METEOROLOGICAL OBSERVATIONS

SURFACE METEOROLOGICAL OBSERVATIONS (METARS) SHALL BE RECORDED AND TRANSMITTED TO JSC/SMG IN ACCORDANCE WITH FEDERAL METEOROLOGICAL HANDBOOK 1 (FMH-1) OR EQUIVALENT DOD HANDBOOK. OBSERVATIONS SHALL, AT A MINIMUM, INCLUDE SITE IDENTIFIER, DATE, TIME, WIND DIRECTION, AVERAGE WIND SPEED, PEAK WIND SPEED IN THE PREVIOUS 10 MINUTES, PREVAILING VISIBILITY, WEATHER AND OBSTRUCTIONS TO VISIBILITY, CLOUD AMOUNTS, CLOUD BASE HEIGHTS, TEMPERATURE, DEW POINT TEMPERATURE, ALTIMETER SETTING, AND APPROPRIATE REMARKS.

CONTINUED

[PRD] DATABASE RECORD: 8934
ITEM NUMBER: T6.1DK

WHENEVER POSSIBLE, ALL MEASUREMENTS FROM NASA-PROVIDED AUTOMATED SYSTEMS, (I.E., HANDAR SYSTEM, CEILOMETERS) SHALL BE USED TO REPORT CONDITIONS IN THE BODY OF THE METAR. WIND MEASUREMENTS REPORTED IN THE BODY OF THE METAR SHALL ALWAYS INCLUDE THE PEAK WIND OVER THE PAST 10 MINUTES AND THE PEAK WIND SHALL BE INCODED AS A GUST (dddffGff). FLIGHT RULES ARE EVALUATED USING BOTH AVERAGE AND PEAK WIND MEASUREMENTS. MIDDS SOFTWARE ONLY DECODES PEAK WIND INFORMATION IF REPORTED AS A GUST IN THE METAR.

SURFACE OBSERVATION REMARKS SHALL INCLUDE:

A. ADDITIONAL NASA-PROVIDED AUTOMATED WEATHER SYSTEM AVERAGE AND PEAK WINDS SHALL BE REPORTED. OTHER IDENTIFIED MEASUREMENTS FROM ADDITIONAL WIND SENSORS SHOULD BE REPORTED WITH WIND SPEED AND DIRECTION USING TWO-MINUTE AVERAGES WHEN POSSIBLE. PEAK WIND IN PREVIOUS 10 MINUTES SHOULD BE REPORTED WEHN POSSIBLE FROM OTHER WIND SYSTEMS.
B. SECTOR VISIBILITY BELOW 7 SM SHALL BE REPORTED.
C. CLOUD COVER, CLOUD TYPES, PRECIPITATION, VIRGA, OR OBSTRUCTIONS TO VISIBILITY KNOWN TO THE OBSERVER WITHIN 30 NM THAT COULD MOVE INTO THE SHUTTLE LANDING APPROACH PATH. CLOUD TYPES INCLUDE CUMULUS CONGESTUS, CUMULONIMBUS, THUNDERSTORM ANVILS, ALTOCUMULUS CASTELLANUS, AND LENTICULAR OR ROTOR CLOUDS. DIRECTION, DISTANCE,

AND MOVEMENT, IF KNOWN, TO THE PHENOMENA SHALL BE CODED IN REMARKS

D. ANY OTHER PHENOMENON THAT, IN THE OPINION OF THE OBSERVER, IS CRITICAL.

ADDITIONAL CRITERIA (BEYOND FMH-1 OR EQUIVALENT DOD GUIDELINES) FOR SPECIAL (NON-ROUTINE) OBSERVATIONS TO BE RECORDED AND TRANSMITTED:

A. CLOUD CEILING FORMS OR DISSIPATES BELOW, DECREASES TO LESS THAN OR IF BELOW INCREASES TO EQUAL OR EXCEED:
   1) 10000 FEET
   2) 5000 FEET
B. VISIBILITY DECREASES TO LESS THAN, OR IF BELOW INCREASES TO EQUAL OR EXCEED:

CONTINUED

[PRD] DATABASE RECORD: 8934
ITEM NUMBER: T6.1DK

1) 7 STATUTE MILES
2) 5 STATUTE MILES

C. WHEN LIGHTNING IS FIRST OBSERVED (WITH OR WITHOUT THUNDER).

D. WHEN PRECIPITATION OR VIRGA IS OBSERVED TO BEGIN AND END.

E. WIHTIN 3 HOURS PRIOR TO LAUNCH WINDOW OPENING:

1) PEAK WIND OBSERVED IN THE PAST 10 MINUTES EXCEEDS THE AVERAGE WIND SPEED (AS DEFINED IN FMH-1 OR EQUIVALENT DOD GUIDELINES) BY MORE THAN 10 KNOTS.
2) PEAK CROSSWINDS EXCEED:
   A. 15 KNOTS DAYLIGHT (SUNRISE - 15 TO SUNSET + 15 MINUTES)
   B. 12 KNOTS NIGHT TIME (SUNSET + 15 MINUTES TO SUNRISE - 15 MINUTES)
3) PEAK HEADWIND EXCEEDS 25 KNOTS.
4) AVERAGE (AS DIFINED IN FMH-1 OR EQUIVALENT DOD MANUAL) TAILWIND EXCEEDS 10 KNOTS.
5) PEAK TAILWIND EXCEEDS 15 KNOTS.
6) TURBULENCE IS REPORTED BY AIRCRAFT TO THE OBSERVER THAT IS MODERATE OR GREATER. PUT REPORT IN REMARKS IF SPACE ALLOWS.

F. WHEN NON-TRANSPARENT DETACHED THUNDERSTORM ANVILS (CIRRUS SPISSATUS CUMULONIMBOGENITUS, HEIGHT CLOUD CODE 3) ARE INITIALLY OBSERVED OR DISSIPATE.

G. WHEN CUMULUS CLOUDS ARE SUSPECTED TO BE CREATED BY SMOKE OR FIRES.

H. WHENEVER ANY OTHER METEOROLOGICAL SITUATION DESIGNATED BY JSC/SMG,

OR WHICH IN THE OPINION OF THE OBERVER, IS CRITICAL TO MISSION SUCCESS OR SAFETY OCCURS.

TIME: DEDICATED OBSERVATION SUPPORT 24 HOURS DAILY WITH METARS RECORDED AND TRANSMITTED AS FOLLOWS:

L-48 HOURS UNTIL L-3 HOURS	EVERY HOUR ON THE HOUR
L-3 HOURS UNTIL L-30 MINUTES	EVERY 30 MINUTES ON THE HOUR AND HALF HOUR
L-1 HOUR UNTIL LAUNCH	EVERY 15 MINUTES
LAUNCH	ALWAYS REQUIRED
LAUNCH + 15 MINUTES	ALWAYS REQUIRED
LAUNCH + 35 MINUTES	ALWAYS REQUIRED
LAUNCH SCRUB ANNOUNCEMENT	ALWAYS REQIRED
SCRUB ANNOUNCEMENT + 35	ALWAYS REQUIRED

CONTINUED

[PRD] DATABASE RECORD: 8934
ITEM NUMBER: T6.1DK

MINUTES
NOTE: L-MINUS TIMES REFER TO THE OPENING OF THE LAUNCH WINDOW.

WEATHER CONDITIONS MEETING SPECIAL CRITERIA WILL BE RECORDED AND TRANSMITTED AS SOON AS POSSIBLE. EXCEPTION: WIND AND TURBULENCE SPECIALS NOTED IN E ABOVE ONLY NEED TO BE RECORDED AND TRANSMITTED 3 HOURS PRIOR TO LAUNCH WINDOW OPENING.

DATA DISPOSITION: THE PREFERRED METHOD FOR DATA TRANSMISSION SHALL BE DIRECT TO JSC/SMG MIDDS VIA SATELLITE OR TELEPHONE LINE. IF DIRECT MIDDS LINK IS NOT AVAILABLE, LONGLINE TRANSMISSION TO THE DOD AUTOMATED WEATHER NETWORK MAY BE USED. IF TECHNICAL DIFFICULTIES PREVENT ELECTRONIC TRANSMISSION OF METARS, AS A LAST RESORT, VOICE COMMUNICATION

OF METARS TO JSC/SMG SHALL BE ATTEMPTED. ALL METARS SHALL BE RECEIVED IN JSC/SMG MIDDS WITHIN 5 MINUTES OF TRANSMISSION AND NO LATER THAN 10 MINUTES FROM TIME OF METAR REPORT.

SURFACE OBSERVATION RECORD:

RECORD (A)	SAxxdddhhmm
RECORDS (1 TO M)	---DATA RECORDS---
RECORD (Z)	NNN

WHERE:

	FIELD	COLUMNS	CONTENTS
RECORD (A)	1	1-2	"SA"
	2	3-4	2 DIGIT SITE IDENTIFIER AS PUBLISHED IN "METEOROLOGICAL DATA TRANSFER FORMAT FOR SPACE SHUTTLE MISSION SUPPORT", xx
	3	5-7	JULIAN DATE OF FILE CREATION, ddd
	4	8-11	UTC TIME OF FILE CREATION ("Z TIME"), hhmm
		12	CARRIAGE RETURN
RECORDS (1 TO M)		1-80	METAR FORMAT OBSERVATION, NOT TO EXCEED 80 CHARACTERS IN LENGTH, EACH RECORD SHALL

CONTINUED

[PRD] DATABASE RECORD: 8934
ITEM NUMBER: T6.1DK

				TERMINATE WITH A CARRIAGE RETURN
RECORD Z	1	1-4		"NNNN"
		5		CARRIAGE RETURN

REMARKS:
COMMUNICATION LINKS ARE REQUIRED BETWEEN EACH SITE AND JSC/SMG WHICH WILL ALLOW CALL INITIATION BY EITHER SIDE BEGINNING AT L-36 HOURS CONTINUING THROUGH TAL RELEASE. CONTINUOUS COMMUNCATION LINKS ARE REQUIRED FROM L-3 HOURS THROUGH TAL RELEASE. FORMAL JSC-TAL VOICE COORDINATION MAY BE INITIATED AT: L-1 DAY
L-7 HOURS
L-2:40 HOURS
L-1:15 HOURS
ADDITIONAL DETAIL ON SURFACE OBSERVATION RECORD FORMAT MAY BE FOUND IN "METEOROLOGICAL DATA TRANSFER FORMAT FOR SPACE SHUTTLE MISSION SUPPORT" PUBLISHED BY UNITED SPACE ALLIANCE.

DATA ACCURACY:
DATA WILL MEET OR EXCEED STANDARDS PUBLISHED IN FMH-1 OR EQUIVALENT DOD HANDBOOK.

EQUIPMENT CALIBRATION:
ALL EQUIPMENT USED TO PRODUCE OBSERVATIONS OR MEASUREMENTS TRANSMITTED TO JSC WILL BE MAINTAINED AND CALIBRATED TO MEET OR EXCEED MANUFACTURER'

SPECIFICATIONS AND/OR NWS/DOD STANDARDS. ANY EQUIPMENT BELIEVED TO BE OPERATING BELOW STANDARDS WILL BE REPORTED TO JSC/SMG AS SOON AS PRACTICAL.

TECHNICAL CONTACTS: JSC/WS8/TIM GARNER/281 483-1046
E-MAIL: TIMOTHY.W.GARNER1@JSC.NASA.GOV
DDMS-W/1LT. KALEB NORDGREN/321 853-8484

NOTE: WILCO ALL EXCEPT, DUE TO THE QUALITY OF THE MOROCCAN TELEPHONE SYSTEM, WE WILL NOT BE ABLE TO COMPLY WITH THE 10 MINUTE TIME CONSTRAINT FROM THE TIME OF THE METAR REPORT IF TRANSMISSION IS VIA TELEPHONE. OBSERVERS WILL TRANSMIT DATA AS SOON AS POSSIBLE.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3230 - METEOROLOGICAL OBSERVATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 8934
ITEM NUMBER: T6.1DK

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
SUBSUPPLIER: ZKM
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/27/06
RESPONSE TRACKING: Z0509-1 Z101-7 Z26144 Z3324 Z4423
Z4717 Z4728 Z5210 Z5314 Z5505
Z5547 Z5552 Z5918 Z6207 Z8319

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: PH-L USK-426

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/27/06
RESPONSE TRACKING: Z106-1 Z5712 Z6104

[PRD] DATABASE RECORD: 13034 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/20/94
INITIAL DATE: 08/17/88
ITEM NUMBER: T6.2E DATE LAST CHANGED: 12/07/06
SECTION: 3230 TIME LAST CHANGED: 14:37:19

REQUESTER: JSC
SUBREQUESTER: I-PH-B JSC/WS8 VALO92008 VALOE
TEST CODE: CCAFS DRFC EAFB KSC
SLF STSALL

ASSOCIATED DOC: 20017S 20026S 20027S 20028S
TRACKING NO. KING2001 L06-11-7 L507-4 L710-1 MK98
R0610-3 R109-7 R26188 R2661 R2809
R8701
PRIORITY: REQUIRED
RATIONALE: DAILY PLS WEATHER EVALUATION, EOM FORECAST PREPARATION
TIME NEEDED: 1ST DAY PLS THROUGH TD-6 HOURS.

1. DESCRIPTION: SURFACE OBSERVATIONS..CONUS..ON ORBIT

DATA REQUIRED:
STANDARD SURFACE OBSERVATIONS INCLUDE:

CONTINUED

[PRD] DATABASE RECORD: 13034
ITEM NUMBER: T6.2E

CLOUD AMOUNT/HEIGHT..VISIBILITY/RESTRICTIONS TO VSBY..
SEA LEVEL PRESSURE, TEMPERATURE, DEWPOINT, SURFACE WIND
DIRECTION AND SPEED, ALTIMETER SETTING, COMPLETE REMARKS.

SURFACE OBSERVATION REQUIREMENT...TO INCLUDE (NO CAVOK)
A. STANDARD ALL ELEMENT OBSERVATION INCLUDING REMARKS
B. REMARKS TO INCLUDE PROPERLY IDENTIFIED WIND DATA
EACH RUNWAY SENSOR IF NOT REPORTED AUTOMATICALLY TO MIDDS.
C. REMARKS TO INCLUDE SECTOR VISIBILITY..PERTINENT TO THE
LANDING FIELD/RUNWAY TO BE USED.
D. REMARKS PERTINENT TO CLOUD COVER THAT CAN OR WILL IMPACT
LANDING FIELD/RUNWAY TO BE USED (ADVECTION OR DISSIPATION
OF SIGNIFICANT CLOUD COVER.

DURING THIS PERIOD, STANDARD OBSERVATIONS AND STANDARD SPECIAL
OBSERVATIONS WILL BE TAKEN, RECORDED AND TRANSMITTED.

TIME:
REQUIRE DEDICATED OBSERVATION SUPPORT 24 HOURS DAILY WITH
STANDARD OBSERVATIONS AND STANDARD SPECIAL OBSERVATIONS
TRANSMITTED HOURLY AND AS REQUIRED UNTIL TD-48 HOURS WHEN
THE END OF MISSION LANDING GUIDELINES WILL BE USED.

LOCATION: KSC.....OBSERVATION FROM THE SHUTTLE LANDING FIELD
EAFB....OBSERVATION TAKEN NEAR BASE WEATHER STATION
INCLUDING SURFACE WIND DATA FROM LAKEBED

DATA ACCURACY: IN ACCORDANCE WITH NWS/AWS STANDARDS AND
GUIDELINES.

REMARKS: VOICE COMMUNICATION BY VOICE LOOPS WILL BE ON SHUTTLE WX
COORD FROM KSC AND LANDING FIELD PRIME 2 FROM EAFB.

DATA DISPOSITION:

DATA WILL BE TRANSMITTED...IN REAL TIME...VIA NORMAL WEATHER
CIRCUITS AND/OR PHONE AND/OR WEATHER NET VOICE LOOP
SEE REMARKS THIS SECTION ON VOICE LOOP.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3230 - METEOROLOGICAL OBSERVATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 13034
ITEM NUMBER: T6.2E

COORDINATION: JSC/WS8/WAYNE BAGGETT/281 483-2226

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB ER WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/22/94
RESPONSE TRACKING: Z26133 Z26149 Z2715 Z5826 Z6826

[PRD] DATABASE RECORD: 561784 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/20/02
INITIAL DATE: 02/21/02
ITEM NUMBER: T9D DATE LAST CHANGED: 05/31/07
SECTION: 3230 TIME LAST CHANGED: 09:59:39

REQUESTER: JSC
SUBREQUESTER: I-PH-B JSC/WS8
TEST CODE: DODALS DODELS S61A03
TRACKING NO. KING2001 L507-4 L710-1 R109-67 R26188
R2661 R2809 R8701 SHAW95

1. DESCRIPTION: STANDARD AVIATION LANDING WEATHER OBSERVATION

AT ACQUISITION OF VOICE COMM BETWEEN TOWER AND
THE ORBITER (APPROX. 10 MIN. BEFORE TOUCHDOWN)
EACH DOD ALS/ELS AIRFIELD AREA.

TO PROVIDE THE ORITER FLIGHT CREW A LOCAL WEATHER
UPDATE FROM THE DOD ALS/ELS TOWER OPR JUST PRIOR
TO LANDING.

NOTE: PER HSFS, INFORMATION WILL BE PROVIDED ONLY
UPON REQUEST.

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/21/02
RESPONSE TRACKING: Z2680 Z7409 Z8701

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3230 - METEOROLOGICAL OBSERVATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD:	8800	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	LLS	APPROVAL DATE:	11/15/06
		INITIAL DATE:	03/10/88
ITEM NUMBER:	HKT12E	DATE LAST CHANGED:	12/01/06
SECTION:	3230	TIME LAST CHANGED:	12:24:29

REQUESTER:	MSFC	KSC	JSC	
SUBREQUESTER:	DYN-1	I-PH-B	JJ-E	JSC/B-NS/HOU
	JSC/MS2	JSC/WS8	KSC/PH-L	
TEST CODE:	CCAFS	EAFB	KSC	SLF
	STSALL	SUPSIM	WSSH	

ASSOCIATED DOC:	20007S	20026S	20027S		20028S
TRACKING NO.	A106-1	KING2001	L001-1	L003-7	L01-5-3
	L02-12-1	L05-7-1	L05-8-1	L06-11-5	L06-11-6
	L06-6-3	L114-4	L201-4	L206-4	L2604
	L2622	L2738	L2813	L302-7	L303-3
	L3116	L3329	L3420	L409-2	L4212
	L4327	L4922	L5007	L503-1	L507-4
	L5529	L5542	L602-2	L603-5	L604-2
	L608-4	L612-1	L6821	L703-2	L7603
	L7612	L7907	L7917	L805-1	L8305
	L904-1	L907-5	L908-1	L908-7	L909-6
	L9603	LSR06-6-2	MK98	R0508-1	R0610-3
	R0611-4	R0611-6	R104-3	R107-4	R109-67
	R113-2	R26181	R26217	R2698	R2809
	R2936	R3414	R3914	R5002	R8110
	R9901	SHAW95			
PRIORITY:	MANDATORY				
RATIONALE:	L-36, & L-34 ARE REQUIRED, SEE BELOW FOR PRIORITY AND RATIONALES.				

1. DESCRIPTION: AMPS LRFE/RAWINSONDE/RADIOTHEODOLITES (L-24 HOURS)

DATA REQUIRED:

1. UPPER AIR OBSERVATION INCLUDES THE FOLLOWING DATA:

WIND DIRECTION
WIND SPEED
TEMPERATURE
DEWPOINT
PRESSURE AT THE DATA POINT ALTITUDE

CONTINUED

[PRD] DATABASE RECORD: 8800
ITEM NUMBER: HKT12E

2. AT KSC AND WSSH, PROVIDE TABULAR DATA (AZIMUTH/ELEVATION/HEIGHT) EVERY 1000 FT MSL UP TO 10,000 FT MSL FROM THE TOUCHDOWN BALLOON.

3. AT EAFB, PROVIDE RAW DATA EVERY 2 SECONDS FROM THE TOUCHDOWN BALLOON ON A DATA DISK TO BE MAILED TO JSC/SMG.

4. REQUIRE UPPER AIR OBSERVATIONS FROM SITE AS CLOSE TO RUNWAY AS POSSIBLE.

5. IN THE EVENT OF BALLOON OR OTHER MECHANICAL FAILURE, DATA SHOULD BE REDUCED AND SENT TO JSC/SMG IF DATA REACHED HEIGHT OF AT LEAST 5000 FT.

11. SCHEDULE:

A. LAUNCH AMPS LRFE/RAWINSONDES/RADIOTHEODOLITES

ITEM	SITE	TIME (-)HR	ALTITUDE (K FT MSL)	INTERVAL FT.	DISTRIBUTION SEE NO. 14	REMARKS SEE NO. 15
	ER	L-36	100	1000	1,2	A,B,C,D
	ER	L-24	100	1000	1,2	A,B,C,D
	ER	L-13	100	1000	1,2	A,B,C,D
	ER	L-9	100	1000	1,2	A,B,C,D,F
	ER	L-6:20	100	1000	1,2	A,B,C,D,F
	ER	L-3:45	80	500	1,2	A,C,D,F,G
	ER	L-3:43	65	1000	1,2	A,C,D,G,H
	ER	L-2	30	500	1,2	A,C,D
	ER	L-1:30	10	500	1,2	A,C,D
	ER	L-1	12	500	1,2	A,C,D
	ER	L-0:30	100	1000	1,2	A,B,C,D
	EAFB	L-13	100	1000	1	A,C,D
	EAFB	L-9	100	1000	1	A,C,D,F
	EAFB	L-3	40	500	1	A,C,D
	WSSH	L-13	100	1000	1	A,C,D
	WSSH	L-9	100	1000	1	A,C,D,F
	WSSH	L-3	40	500	1	A,C,D

CONTINUED

[PRD] DATABASE RECORD: 8800
ITEM NUMBER: HKT12E

B. LANDING AMPS LRFE/RAWINSONDES/RADIOTHEODOLITES

ER	TD-11	100	1000	1	A,C,D
ER	TD-6:30	80	1000	1	A,C,D,F
ER	TD-4:30	80	1000	1	A,C,D,E,F
ER	TD-2:30	20	500	1	A,C,D,E
ER	TD-1	12	500	1	A,C,D,E
ER	TD-0 *	100	1000	1	C,D
EAFB	TD-11	100	1000	1	A,C,D
EAFB	TD-6:30	80	1000	1	A,C,D,F
EAFB	TD-4:30	80	1000	1	A,C,D,E,F
EAFB	TD-2:30	20	500	1	A,C,D,E
EAFB	TD-1	13	500	1	A,C,D,E
EAFB	TD-0 *	100	1000	1	C,D
WSSH	TD-11 **	100	1000	1	A,C,D
WSSH	TD-6:30**	80	1000	1	A,C,D,F
WSSH	TD-4:30**	80	1000	1	A,C,D,E,F
WSSH	TD-2:30**	20	500	1	A,C,D,E
WSSH	TD-1 *	14	500	1	A,C,D,E
WSSH	TD-0 *	100	100	1	C,D

12. NOTES:

NOTE 1 * = ONLY REQUIRED AT ACTUAL LANDING SITE.

NOTE 2 ** = ONLY REQUIRED FOR EOM, CONTINGENT UPON 24 HOURS ADVANCE NOTICE.

NOTE 3 = RESOURCES WILL BE CONSERVED THROUGH COMBINATION OF L-24, AND L-1 DAY REQUIREMENTS WHEN POSSIBLE. THE DAILY 0600L & 1815L LOCAL ER AUTOMATED METEOROLOGICAL PROFILING SYSTEM (AMPS) LOW RESOLUTION FLIGHT ELEMENT (LRFE)/RAWINSONDE RELEASE WILL BE USED WHEN POSSIBLE THE BRIEFING MESSAGE WILL SPECIFY IF ONE OF THE DAILY AMPS LRFE RELEASES MAY BE USED TO MEET L-1 DAY MEASUREMENT REQUIREMENTS.

NOTE 4 = ADDITIONAL AMPS LRFE/RAWINSONDE MAY BE REQUESTED AT ER FOR LONG LAUNCH HOLDS. ALTITUDE REQUIREMENTS

CONTINUED

[PRD] DATABASE RECORD: 8800
ITEM NUMBER: HKT12E

WILL BE DETERMINED REAL-TIME. DISTRIBUTION - 1
REMARKS - A,D

NOTE 5 = THIS RELEASE (ER L-5:30 THRU ER L-0:30 IS REQUIRED BY ER RANGE SAFETY IN ORDER TO PROVIDE A "GO" FOR LAUNCH AND BY BIO-3/MD-MED# (REQUIREMENT DOCUMENTED BY PH-M1 FOR THE ER).

NOTE 6 = ER WILL RETRANSMIT TD-0 BALLOON DATA IN 500 FT INCREMENTS FROM SURFACE TO 11,000 FT. REMARKS - A, C THE DATE-TIME GROUP OF THE RETRANSMISSION WILL BE ONE (1) MINUTE LATER THAN THE DATE-TIME GROUP OF THE FIRST TRANSMISSION.

NOTE 7 = THIS DATA IS MANDATORY FOR SPACE SHUTTLE LAUNCH AND LANDING ASSESSMENTS. THEREFORE, THE PROBABILITY THAT ANY SINGLE BALLOON MEASUREMENT MEETS SPACE SHUTTLE REQUIREMENTS AND THAT THIS DATA IS SUCCESSFULLY TRANSMITTED TO THE MISSION CONTROL CENTER IN HOUSTON, BOEING, AND MSFC SHALL EXCEED 95%.

NOTE 8 = BALLOON MECHANICAL OR SCHEDULE PROBLEMS THAT OCCUR AFTER L-8 HOURS MUST BE COMMUNICATED TO THE JSC WIND COORDINATOR (HOUSTON WINDS ON LANDING FIELD PRIME 2 VOICE CIRCUIT OR PHONE 281 483-5663).

NOTE 9 = LANDING WAVE-OFF: IF AN OPPORTUNITY TO THE SITE IS WAVED OFF BUT ANOTHER OPPORTUNITY EXISTS ON THE NEXT REV, CONTACT JSC WIND COORDINATOR TO CONFIRM NEW SCHEDULE. EXAMPLE: WAVE-OFF OCCURRED AFTER RELEASE OF REV1 2:30 BALLOON. THEREFORE, REV1 2:30 BALLOON WILL BE USED AS THE REV2 4:00 BALLOON. NEW RELEASES FOR REV2 2:30 AND 1 HOUR BALLOONS WILL BE SCHEDULED BY THE JSC WINDS COORDINATOR.

13. DATA ACCURACY: WINDS: 1.5 mps VEE +4% OF VECTOR WINDS
TEMP: 1 DEGREE C AT SURFACE TO 2.5 DEGREES C AT 30 KM

CONTINUED

[PRD] DATABASE RECORD: 8800
ITEM NUMBER: HKT12E

DENSITY: 0.2% AT SURFACE TO 1% AT 30 KM
HUMIDITY: 5% AT 40 DEGREES C TO 20% AT -40 DEGREES C
DEWPOINT: +2.5 DEGREES C
PRESSURE: 0.1% AT SURFACE TO 1% AT 30 KM

14. DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	DIG RELAY	-	NRT	JSC
2	DIG RELAY	-	NRT	B-NS/HOUSTON COORDINATE WITH ER AT 321 853-6625 (VOICE) 321 853-1998 (PRIME MODEM) 321 853-1997 (BACKUP MODEM)

15. REMARKS:

A. DIGITAL RELAY TO JSC.
B. DIGITAL RELAY TO B-NS/HOUSTON, WHO WILL COORDINATE TRANSMISSION WITH CCAFS/853-6625 (VOICE).
C. DATA ARE AVAILABLE ON MIDDS.
D. IF TRANSMISSION IS IMPOSSIBLE DUE TO HARDWARE PROBLEMS, DATA TO BE VOICED OVER LANDING FIELD PRIME 2 CIRCUIT OR TELEPHONE LINE TO THE JSC WINDS COORDINATOR: DATA TRANSMITTAL: BLACK PHONE 281 483-8705 B/U EXTENSION 5233.
E. TRANSMIT BALLOON DATA TO JSC WEATHER OFFICE THROUGH THE NATIONAL WEATHER SERVICE COMPUTER SYSTEM, ENCODED IN THE SAME FORMAT AS THE DAILY MORNING UPPER AIR TRANSMISSION.
F. TRANSMIT PARTIAL BALLOON DATA AT 12,000 FT ALTITUDE.
G. PROCESS WIND DATA IN 100 FT INCREMENTS AND TRANSMIT THE WIND DATA IN REAL TIME AFTER QC UP TO 65,000 FT ALTITUDE, TRANSMIT WITH "LW" DESIGNATOR.
H. SHADOW BALLOON TO THE L-3:45 LW. ONLY PROCESS WIND DATA WITH QC IF L-3:45 DOES NOT MEET STS REQUIREMENTS. CONFIRM WITH HOUSTON WINDS.

COORDINATION: JSC/MS2/CHRISTINE BOYKIN/281 483-1251
JSC/WS8/DORIS HOOD/281 483-1041

CONTINUED

[PRD] DATABASE RECORD: 8800
ITEM NUMBER: HKT12E

TECH CONTACTS: JSC/DM4/HENRY CORDOVA/281 483-6197
KSC/TA/BURT SUMMERFIELD/321 867-4598
KSC/DYN-2/CARLTON HALL/321 476-4101
KSC/PH-L/DEAN SCHAAF/321 861-9311
MSFC/EV13/RYAN DECKER/256 544-3068

RATIONALE IS AS FOLLOWS:

LAUNCH BALLOON (AMPS LRFE/RAWINSONDES)

L-36	- METEOROLOGICAL ANALYSIS	(R)
L-24	- METEOROLOGICAL ANALYSIS	(R)
L-13	- RTLS FORECAST PREPARATION	(R)
L-9	- MET DATA USED WITH FORECAST WINDS - TREND ANALYSIS (L-13, L-9)	(R)
L-6:20	- LAST BALLOON FOR GRTLS/TAEM ANALYSIS	(M)
L-3:45	- A/L ANALYSIS, LAST BALLOON FOR FORECAST UPDATE	(M)
L-3:43	- DOLILU SHADOW TO 3:45 LW	(R)
L-2	- A/L ANALYSIS	(M)
L-1:30	- RANGE SAFETY (BLAST BALLOON)	(M)
L-1	- A/L ANALYSIS, GO/NO-GO FOR R/W	(M)
L-0:30	- USED FOR MET	(M)

LANDING BALLOON (AMPS LRFE/RAWINSONDES)

TD-11	- METEOROLOGICAL ANALYSIS, FORECAST PREPARATION	(M)
TD-6:30	- METEOROLOGICAL DATA USED WITH FORECAST WINDS	(M)
TD-4:30	- LAST BALLOON FOR TAEM ANALYSIS	(M)
TD-2:30	- A/L ANALYSIS, GO/NO-GO FOR D/O BURN	(M)
TD-1	- A/L ANALYSIS, AIM POINT AND/OR END OF R/W	(M)
TD-O	- USED FOR POSTFLIGHT ANALYSIS	(M)

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3230 - METEOROLOGICAL OBSERVATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 8800
ITEM NUMBER: HKT12E

SUBSUPPLIER: EAFB ER WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/15/06

RESPONSE TRACKING:	Z0511-1	Z0606-1	Z101-2	Z105-3	Z26149
	Z2660	Z2715	Z2957	Z3142	Z3303
	Z3342	Z3446	Z3957	Z4240	Z4355
	Z4925	Z5003	Z5033	Z5529	Z5545
	Z6303	Z6915	Z7001	Z7705	Z7918
	Z8005	Z8217	Z8407	Z9319	

[PRD] DATABASE RECORD: 3582 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/15/06
INITIAL DATE: 07/15/88
ITEM NUMBER: HT17E DATE LAST CHANGED: 12/01/06
SECTION: 3230 TIME LAST CHANGED: 12:25:27

REQUESTER:	MSFC	JSC		
SUBREQUESTER:	I-PH-B	JSC/B-NS/HOU	JSC/DM3	JSC/MS2
	JSC/WS8	VALO9200	VALOE	
TEST CODE:	CCAFS	KSC	S51F10	S51J11
	S61A02	STSALL		

ASSOCIATED DOC:	20007S	20017S			
TRACKING NO.	A106-1	KING2001	L001-1	L001-5	L003-7
	L01-5-3	L02-12-1	L03-8-6	L05-8-1	L06-10-2
	L06-11-1	L06-11-6	L06-6-3	L06-7-4	L06-8-1
	L06-8-3	L107-1	L111-4	L203-2	L205-3
	L2604	L2606	L2622	L2813	L2976
	L309-2	L3116	L3329	L3420	L3605
	L3924	L4312	L4418	L4505	L4518
	L501-3	L510-2	L512-2	L5801	L601-4
	L6305	L705-1	L7202	L7402	L7502
	L805-1	L807-1	L901-1	L903-6	L907-5
	L909-6	LSR06-6-2	MK98	R0508-1	R0511-1
	R0608-1	R0608-3	R0609-1	R0610-3	R0611-6
	R104-3	R107-4	R109-67	R5008	R7401
	R7702	R9506	RTF114-10		

PRIORITY: MANDATORY
RATIONALE: SEE BELOW FOR BREAK DOWN OF PRIORITY.

CONTINUED

[PRD] DATABASE RECORD: 3582
ITEM NUMBER: HT17E

1. DESCRIPTION: JIMSPHERE/HIGH RESOLUTION - LAUNCH

11. DATA REQ'D: JIMSPHERE: WIND SPEEDS, DIRECTION, SHEARS VS. ALTITUDE.

12. TIME/RELEASE: 6 HRS 15 MIN JS, 6 HRS 13 MIN HR, 4 HRS 45 MIN JS, 4 HRS 43 MIN HR, 3 HRS 35 MIN JS, 3 HRS 33 MIN HR, 2 HRS 20 MIN JS, 2 HRS 18 MIN HR, L-70 MIN JS, L-65 MIN HR, AND L+15 MIN JS APPROXIMATE TIMES.

13. LOCATION: KSC LAUNCH AREA
INTERVAL: 100 FT.

14. ALT-K FT: SURFACE TO A MINIMUM OF 52K FT. MSL. ACQUISITION MAY NOT OCCUR UNTIL 500 TO 1,500 FEET AFTER RELEASE DUE TO THE RELOCATION OF MOTR TO KSC (19.39).

15. DATA ACCURACY: 0.5 MPS VEE + 2% OF VECTOR WINDS

16. PURPOSE/REMARKS: ASSURED DETAILED JIMSPHERE DATA IS REQUIRED FOR PRELAUNCH STRUCTURAL INTEGRITY ASSESSMENT, AND FOR POST-LAUNCH ANALYSIS (INCLUDING ALL PARAMETERS LISTED).

17. DATA TAKE TIME: ALL TIMES LISTED IN BLOCK 12 ARE CURRENT ESTIMATES SUBJECT TO SPECIFIC MISSION CHANGES, WHICH WILL BE COORDINATED BY JSC/SPACEFLIGHT METEOROLOGY GROUP AND/OR WINDS FOR INDIVIDUAL MISSIONS NEAR REALTIME.

18. EQUIPMENT: FOR ALL JIMSPHERE OBSERVATION, REQUIRE JIMSPHERE SYSTEM BE TRACKED WITH TWO C-BAND RADAR(S).

WILL ATTEMPT TO DUAL TRACK ALL JIMSPHERES BUT PERIODS OF SINGLE RADAR TRACK SHOULD BE EXPECTED DUE TO CONFLICTING ER COUNTDOWN REQUIREMENTS AND ACTIVITIES.

CONTINUED

[PRD] DATABASE RECORD: 3582
ITEM NUMBER: HT17E

NOTE 1: IN THE CASE OF A LAUNCH HOLD, RELEASE BALLOONS SUCCESSIVELY AT TERMINATION OF PREVIOUS BALLOON UNTIL END OF LAUNCH HOLD.

NOTE 2: BECAUSE THE JIMSPHERE DATA IS CRITICAL TO THE FINAL "GO FOR LAUNCH" DECISION, ER AND KSC SHOULD MAKE EVERY EFFORT TO PROVIDE QUALITY AND TIMELY JIMSPHERE AS REQUESTED. TWO (2) COMPUTERS ARE REQUIRED TO PROVIDE REDUNDANT PROCESSING CAPABILITY OF THE JIMSPHERE DATA.

NOTE 3: THIS REQUIREMENT IS MANDATORY FOR THE DURATION OF THE SHUTTLE PROGRAM.

NOTE 4: JIMSPHERE/HIGH RESOLUTION WIND PROFILES SHALL NOT INCLUDE DATA INTERPOLATIONS GREATER THAN 400' IN LENGTH BETWEEN 1500' AND TERMINATION ALTITUDE FOR I-LOAD DESIGN AND ASSESSMENTS. INTERPOLATIONS GREATER THAN 400', SHALL NOT BE USED AS THE SOLE BASIS FOR THE FINAL GO ASSESSMENT FOR SPACE SHUTTLE LAUNCH.

NOTE 5: THIS DATA IS MANDATORY FOR SPACE SHUTTLE LAUNCH ASSESSMENTS. THEREFORE, THE PROBABILITY THAT ANY SINGLE BALLOON MEASUREMENT MEETS SPACE SHUTTLE REQUIREMENTS (INCLUDING NOTE 4) AND THAT THIS DATA IS SUCCESSFULLY TRANSMITTED TO THE MISSION CONTROL CENTER IN HOUSTON, BOEING, AND MSFC SHALL EXCEED 95%.

NOTE 6: HIGH RESOLUTION SHADOW BALLOON MEASUREMENTS REQUIRED WITH EACH JIMSPHERE MEASUREMENT FOR SPACE SHUTTLE PROGRAM HIGH RESOLUTION MEASUREMENT ACCEPTANCE AND RELIABILITY EVALUATIONS.

19. DATA DISPOSITION: LAUNCH

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	DIG RELAY	-	R/T	JSC REFER TO SEC 3200 FOR DIGITAL FORMAT
2	DIG RELAY	-	R/T	B-NS/HOUSTON COORD WITH ER AT 321 853-6625 (VOICE) 321 853-1998 (PRIME MODEM)

CONTINUED

[PRD] DATABASE RECORD: 3582
ITEM NUMBER: HT17E

321 853-1997 (BACKUP MODEM)

TECHNICAL CONTACT: JSC/DM4/HENRY CORDOVA/281 483-6197
JSC/MS2/CHRISTINE BOYKIN/281 483-1251
MSFC/EV13/RYAN DECKER/256 544-3068

COORDINATION: JSC/WS8/DORIS HOOD/281 483-1041

RATIONALE IS AS FOLLOWS: (M)

LAUNCH BALLOON (JIMSPHERE= JS, AMPS HIGH RESOLUTION= HR)

L-6:15 JS - BACKUP FOR DOLILU OF I-LOAD WITH AMPS LRFE/RAWINSONDE IS TECHNICALLY POSSIBLE, BUT REQUIRES SOME WORK TO VALIDATE AND SSPO APPROVAL. TERMINATE AFTER 60 MIN.

L-6:13 HR - SHADOW TO THE L-6:15 JS. TERMINATE AFTER 60 MIN.

L-4:45 JS - PRIME FOR DOLILU GENERATION. SLIGHT REDUCTION IN OVERALL RELIABILTIY DUE TO SINGLE TRACK WOULD REQUIRE PROGRAM RELIABILITY ASSESSMENT AND SSPO APPROVAL. TERMINATE AFTER 60 MIN.

L-4:43 HR - SHADOW TO THE L-4:45 JS. TERMINATE AFTER 60 MIN.

L-3:35 JS - BACKUP FOR DOLILU GENERATION. TERMINATE AFTER 65 MIN.

L-3:33 HR - SHADOW TO THE L-3:35 JS. TERMINATE AFTER 65 MIN.

L-2:20 JS - LOADS GO/NO-GO BALLOON. SLIGHT REDUCTION IN OVERALL RELIABILITY DUE TO SINGLE TRACK WOULD REQUIRE PROGRAM RELIABILITY ASSESSMENT AND SSPO APPROVAL. TERMINATE AFTER 65 MIN.

L-2:18 HR - SHADOW TO THE L-2:20 JS. TERMINATE AFTER 65 MIN.

L-1:10 JS - PRIME FOR ROLL MANEUVER ASSESSMENT. SCHEDULED FOR ALL STS LAUNCHES. SUPPORTS WIND PERSISTENCE ASSESSMENT FOR ALL LAUNCHES AND FINAL GO/NO-GO FOR LONG LAUNCH

CONTINUED

[PRD] DATABASE RECORD: 3582
ITEM NUMBER: HT17E

WINDOW MISSIONS. TRANSMIT FIRST 10,000' OF WIND DATA WHEN AVAILABLE, TRACK BALLOON UNITL 52000 FT.

L-1:05 HR - SHADOW BALLOON TO THE L-1:10 JS BACKUP FOR ROLL MANEUVER ASSESSMENT. SCHEDULED FOR ALL STS LAUNCHES. TERMINATE AFTER 60 MIN.

L-0:50 HR - BACKUP FOR THE L-1:10 JS AND L-1:05 HR, USED FOR ROLL MANEUVER ASSESSMENT TO ONLY BE RELEASED SHOULD THE L-1:10 JS AND L-1:05 HR DO NOT MEET STS REQUIREMENTS. EARLY RELEASE IS ACCEPTABLE. TERMINATE AT 7,500 FT THIS IS THE LATEST RELEASE TIME TO COMPLETE THE ROLL MANEUVER ASSESSMENT.

L+0:15 JS - USED BY MSFC TO BUILD RECONSTRUCTED LAUNCH WINDOW. TERMINATE AFTER 65 MIN.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 11/15/06
RESPONSE: PROPOSED BALLOON SCHEDULE INCLUDES RELEASING 3 WEATHER BALLOONS WITHIN 10 MINUTES AND 5 WEATHER BALLOONS WITHIN 25 MINUTES. EVEN NOMINAL OPERATION OF ALL EQUIPMENT AND PERSONNEL WILL SEVERELY STRESS OUR MANPOWER CAPABILITIES AND COMPUTER SYSTEM PROCESSING POWER. METEOROLOGICAL OPERATIONS WILL MAKE EVERY EFFORT TO MEET PROPOSED TIMELINE BUT THE CUSTOMER SHOULD BE AWARE THAT ANY UNFORESEEN ANOMALIES WILL MOST LIKELY RESULT IN A DELAY IN BALLOON RELEASES OR PROCESSING.

RESPONSE TRACKING:

Z0511-1	Z105-3	Z26213	Z2662	Z2988
Z2990	Z3016	Z3142	Z3342	Z3421
Z3481	Z3606	Z3957	Z3960	Z4347
Z4452	Z4520	Z4535	Z5011	Z5322
Z5410	Z5818	Z7001	Z7505	Z7911
Z9405	Z9506			

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3230 - METEOROLOGICAL OBSERVATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 22335 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/30/00
INITIAL DATE: 05/31/90
ITEM NUMBER: T17.1E DATE LAST CHANGED: 11/21/06
SECTION: 3230 TIME LAST CHANGED: 07:37:37

REQUESTER: JSC
SUBREQUESTER: I-PH-B JSC/MS4 JSC/WS8 VALO92003
VALOE
TEST CODE: CCAFS KSC STSALL SUPSIM

ASSOCIATED DOC: 20007S 20014S 20017S 20028S
TRACKING NO. A106-1 KING2001 L005-16 L04-2-1 L06-10-2
L201-5 L204-2 L304-5 L304-5A L4529
L4927 L5554 L5713 L710-1 L805-1
MK98 R0402-1 R0610-3 R109-67 R4103
R4104 R4105 R4501 R8701
PRIORITY: MANDATORY
RATIONALE: LSEAT REQUIREMENT FOR AUTOMATED QUALITY CONTROL OF JIMSPHERE BY CCAFS/45 SW

1. DESCRIPTION: AUTOMATED REAL-TIME WINDS QA PROGRAM AT KSC.

CCAS/45 SW WILL IMPLEMENT THE AUTOMATED REAL-TIME WINDS QA PROGRAM TO ASSIST IN MANUAL EDITING OF THE JIMSPHERE WINDS BEFORE TRANSMISSION TO JSC AND B-NS/HOU. THIS WILL RESULT IN THE SAME WIND BEING RUN IN THE LOADS SIMULATIONS AT JSC AND B-NS/HOU ON DAY OF LAUNCH. ONCE THIS SYSTEM IS IMPLEMENTED, THE QA PROGRAM WILL BE REMOVED FROM BOTH THE JSC AND B-NS/HOU COMPUTERS AND RESPONSIBILITY WILL BE TRANSFERRED COMPLETELY TO CCAFS/45 SW FOR THE WINDS QA PROCESS ON DAY OF LAUNCH.

TECHNICAL CONTACTS: JSC/DM46/CHRISTINE BOYKIN/281 483-1251
45SW/MR. BILLIE BOYD/321-494-7014

COORDINATION: JSC/WS8/DORIS HOOD/281 483-1041

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: CCAFS ER KSC
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/30/00
RESPONSE TRACKING: Z39106 Z3968 Z4104 Z4105 Z4120

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3230 - METEOROLOGICAL OBSERVATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 22335
ITEM NUMBER: T17.1E

Z4307	Z4527	Z4725	Z4832	Z4927
Z4932	Z5113	Z5508	Z5550	Z5562
Z5714	Z6004	Z8701		

[PRD] DATABASE RECORD: 516453 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/22/06
INITIAL DATE: 08/26/91
ITEM NUMBER: T17.2H DATE LAST CHANGED: 01/12/07
SECTION: 3230 TIME LAST CHANGED: 12:35:45

REQUESTER: JSC
SUBREQUESTER: JSC/WS8 KSC/KT-C VALO92008 VALOE
TEST CODE: 45 SW CCAFS KSC LAUNCH
STSALL

ASSOCIATED DOC: 20007S
TRACKING NO.

KING2001	L02-12-1	L06-10-2	L06-6-3	L108-4
L109-3	L110-1	L4810	L4827	L705-1
L705-1A	L805-1	LSR06-6-2	M70601	MK98
R0610-3	R107-4	R109-67	R4422	R9401
SCRUB06				

PRIORITY: MANDATORY
RATIONALE: DOLILU REQUIREMENT

1. DESCRIPTION: INDEPENDENT WINDS VERIFICATION

THE L-4:45 JIMSPHERE WIND DATA ARE USED TO CALCULATE DAY-OF-LAUNCH ASCENT I-LOADS. DUE TO THE CRITICAL NATURE OF THE JIMSPHERE WIND DATA, A METEOROLOGIST AT JSC AND/OR MSFC WILL VERIFY THE VALIDITY OF THE JIMSPHERE DATA USING A MINIMUM OF ONE INDEPENDENT WIND DATA SOURCE. THERE ARE THREE POSSIBLE INDEPENDENT WIND DATA SOURCES AVAILABLE. THEY ARE AS FOLLOWS:

1. PREVIOUS JIMSPHERES FOR COMPARISON.
2. AMPS LRFE
3. UNCERTIFIED WIND DATA FROM THE 50 MHZ DOPPLER RADAR WIND PROFILER (DRWP) LOCATED ON KSC NEAR THE SLF.

ADDITIONALLY, UPPER LEVEL WIND FORECASTS ARE GENERATED BY JSC/SPACE-FLIGHT METEOROLOGY GROUP (SMG). SMG UTILIZES FORECAST MODEL DATA FROM

CONTINUED

[PRD] DATABASE RECORD: 516453
ITEM NUMBER: T17.2H

THE NATIONAL WEATHER SERVICE (NWS), NATIONAL METEOROLOGICAL CENTER, INTEGRATED WITH OTHER METEOROLOGICAL DATA, AND EXPERIENCE TO PRODUCE THESE UPPER WIND FORECASTS.

FOR LAUNCH, THE UPPER AIR MONITOR (A METEOROLOGIST) AT THE CAPE WEATHER STATION WILL QUALITY CONTROL JIMSPHERE DATA IN NEAR REAL TIME, ASSESSING QUALITY FROM ALL AVAILABLE DATA IN THE MIDDS TO INCLUDE, BUT NOT LIMITED TO, AMPS LRFE/RAWINSONDE, DRWP (IF AVAILABLE) AND PREVIOUS JIMSPHERE (PERSISTENCE) UPPER AIR DATA. ADDITIONALLY, ON REQUEST FROM THE LDO, THE LAUNCH WEATHER OFFICER (A METEOROLOGIST) AT THE RANGE WEATHER OPERATIONS (RWO) WILL REVIEW JIMSPHERE DATA FOR CONSISTENCY AND ACCURACY VIA THE RWO MIDDS. ALL DATA AVAILABLE WILL BE USED TO CONFIRM L-4:45 JIMSHERE IS METEROLOGICALLY VALID. PREVIOUSLY RELEASED JIMSPHERES, COINCIDENT AMPS LRFE/RAWINSONDES, RADAR WIND PROFILER (WHEN AVAILABLE), OR FORECAST WIND DATA FROM COMPUTER MODELS MAY BE USED IN THIS ASSESSMENT. THE METEOROLOGIST EVALUATING THESE DATA WILL BE SEPARATE FROM THE UPPER AIR MONITOR. THE JIMSPHERE AND AMPS LRFE/RAWINSONDE DATA WILL BE REDUCED BY SEPARATE SOFTWARE WITH DATA INGEST ON A SINGLE METEOROLOGICAL SYSTEMS COMPUTER (MSC). REDUNDANT MSC'S WILL PROVIDE BACKUP FOR BOTH THE JIMSPHERE AND AMPS LRFE/RAWINSONDE DATA REDUCTION. TRANSMISSION SOFTWARE FOR AMPS LRFE/RAWINSONDE AND JIMSPHERE WINDS WILL BE IDENTICAL TO ENSURE CONTINUITY OF DATA TRANSFER.

WEATHER STATION A WILL MONITOR THE SPECTRAL DATA AND ADJUST THE MEDIAN FILTER FIRST GUESS (MFFG) ALGORITHM IF NECESSARY. IF MFFG ALGORITHM IS ADJUSTED, WEATHER STATION A WILL NOTIFY MSFC WINDS AND SMG OVER LANDING FIELD PRIME 2.

JSC/SMG AND/OR MSFC WILL EVALUATE THE VALIDITY OF THE L-4:45 JIMSPHERE USING ONE OR MORE OF THE ABOVE LISTED INDEPENDENT WIND DATA SOURCES AND PROVIDE THEIR FINDINGS TO THE LDO.

TECH CONTACT: JSC/WS8/DORIS HOOD/281 483-1041
ER/MIKE GAWEL/321 853-8118
KSC/KT-C/JOHN MADURA/321 867-0814
MSFC/EV13/RYAN DECKER/256 544-3068

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3230 - METEOROLOGICAL OBSERVATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 516453
ITEM NUMBER: T17.2H

SUBSUPPLIER: MSFC/ED44
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/26/06
RESPONSE TRACKING: Z107-8 Z4419 Z4428 Z4821 Z9407

[PRD] DATABASE RECORD: 13036 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/13/06
INITIAL DATE: 03/10/88
ITEM NUMBER: TK24D DATE LAST CHANGED: 05/30/07
SECTION: 3230 TIME LAST CHANGED: 10:33:02

REQUESTER:	JSC	KSC		
SUBREQUESTER:	I-PH-B	JSC/WS8	KSC/PH-L	USK-426
TEST CODE:	ISTRES	MORON	STSALL	SUPSIM
	TAL	WSSH	ZARAGOZA	

ASSOCIATED DOC:	20007S	20014S	20017S	20027S	
	20029S	20057S	20070S		
TRACKING NO.	KING2001	L05-4-4	L05-4-4A	L114-3	L206-4
	L2604	L2739	L2813	L310-1	L3415
	L3748	L5007	L5808	L603-5	L604-2
	L612-1	L703-2	L709-2	L7612	L7907
	L8305	L8607	L906-3	L907-5	L909-4
	L9301	R0506-1	R0601-2	R109-67	R26181
	R26248	R2661	R2698	R2953	R8110

PRIORITY: MANDATORY
RATIONALE: SEE BELOW FOR BREAK DOWN OF PRIORITY

1. DESCRIPTION: UPPER AIR OBSERVATIONS - TAL

11. DATA REQUIRED:
UPPER AIR OBSERVATION INCLUDES THE FOLLOWING DATA:
WIND DIRECTION, WIND SPEED, TEMPERATURE, DEWPOINT,
AND PRESSURE AT THE DATA POINT ALTITUDE.
FOR OBSERVATIONS MADE WITH RADIO THEODOLITES (ONLY).
THE MSL ALTITUDE AT WHICH THE BALLOON ELEVATION ANGLE
IS LESS THAN 12 DEGREES.

12. LOCATION: MORON, ZARAGOZA, ISTRES

CONTINUED

[PRD] DATABASE RECORD: 13036
ITEM NUMBER: TK24D

SCHEDULE: TAL

WEATHER AND FLIGHT DYNAMICS BALLOON RELEASE SCHEDULE TO MAXIMUM ALTITUDE:

(M) RATIONALE: MANDATORY BROKEN DOWN AS FOLLOWS:

	TIME (-) HR	ALTITUDE (K FT MSL)		INTERVAL (FT)
	L-48	25	(R)	1000
	L-36	25	(R)	1000
	L-24	25	(R)	1000
	L-13	80	(R)	1000
	L-9	80	(M)	1000
ONLY PER JSC REQUEST	L-4.5	50	(M)	1000
	L-3.75	0-15	(M)	500
		16-80		1000
	L-1	12	(M)	500
LANDING SITE ONLY	TD	100	(M)	1000

NOTE 1: ADDITIONAL 50K TAL BALLOON BETWEEN L-5 AND L-4 ONLY AT JSC REQUEST. NOTIFICATION PRIOR TO L-5.

NOTE 2: TIME OF L-48 HOUR BALLOON IS FLEXIBLE UP TO +/- 6 HOURS WITH CONCURRENCE OF JSC/SMG.

13. REMARKS: REQUIRE UPPER AIR OBSERVATIONS FROM SITE AS CLOSE TO RUNWAY AS POSSIBLE. IN THE EVENT OF BALLOON OR OTHER MECHANICAL FAILURE, IF DATA REACHED HEIGHT OF AT LEAST 5000 FT, DATA SHOULD BE REDUCED AND SENT TO JSC/SMG.

NOTE 1: ADDITIONAL BALLOON RELEASES MAY BE REQUESTED FOR LONG LAUNCH HOLDS
NOTE 2: UPPER AIR EQUIPMENT, MAINTENANCE, SUPPLIES AND TRAINING WILL BE PROVIDED

CONTINUED

[PRD] DATABASE RECORD: 13036
ITEM NUMBER: TK24D

14. DATA DISPOSITION:
DATA WILL BE TRANSMITTED VIA INMARSAT OR TELEPHONE TO JSC/SMG MIDDS. REFER TO BALLOON RELEASE SCHEDULE ABOVE. COMMUNICATIONS LINKUPS TO TRANSFER UPPER AIR DATA WILL OCCUR AS SOON AS THE DATA IS COLLECTED.

15. DATA ACCURACY:

WINDS:	1.5 MPS VEE +4% OF VECTOR WINDS
TEMP:	1 DEGREE C AT SURFACE TO 2.5 DEGREES C AT 30 KM
DENSITY:	0.2% AT SURFACE TO 1% AT 30 KM
HUMIDITY:	5% AT 40 DEGREES C TO 20% AT -40 DEGREES
DEWPOINT:	+2.5 DEGREES C
PRESSURE:	0.1% AT SURFACE TO 1% AT 30 KM

TECH CONTACT: JSC/ZS8/TIM GARNER/281 483-1046
DDMS-W/2LT JENNINGS/321 853-8493/8485

NOTE: REQUIREMENT FOR DATA ABOVE 70K IS NOT GENERALLY SUPPORTABLE SINCE EQUIPMENT HAS A MAXIMUM ALTITUDE CAPABILITY OF NO MORE THAN 70-75K. DATA WILL BE REPORTED TO THE MAXIMUM OBSERVED ALTITUDE AND IF LESS THAN REQUIREMENT (OF NO MORE THAN 70K), COORDINATION WITH SMG WILL DETERMINE WHETHER AN EXTRA BALLOON WOULD BE LAUNCHED.

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/13/06
RESPONSE TRACKING: Z0509-1 Z26138 Z2685 Z2939 Z3307
Z3429 Z4611 Z4616 Z5022 Z5918
Z6011 Z7708 Z8006 Z8215 Z8325
Z8702

[PRD] DATABASE RECORD: 13042 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/20/94
INITIAL DATE: 06/03/88
ITEM NUMBER: T27E DATE LAST CHANGED: 11/17/06
SECTION: 3230 TIME LAST CHANGED: 07:05:36

REQUESTER: JSC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3230 - METEOROLOGICAL OBSERVATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 13042
ITEM NUMBER: T27E

SUBREQUESTER:	I-PH-B	JSC/WS8			
TEST CODE:	CCAFS	EAFB	KSC	SLF	
	STSALL				
ASSOCIATED DOC:	20026S	20027S	20028S		
TRACKING NO.	KING2001	L06-10-2	L06-11-7	L409-5	L6825
	L710-1	L805-1	MK98	R0610-3	R109-67
	R26181	R2661	R2698	R8701	
PRIORITY:	REQUIRED				
RATIONALE:	DAILY PLS EVALUATION, EOM FORECAST PREPARATION				

1. DESCRIPTION: UPPER AIR OBSERVATIONS DURING..ON-ORBIT

DATA REQUIRED: UPPER AIR OBSERVATION INCLUDES THE FOLLOWING DATA:
WIND DIRECTION, WIND SPEED, TEMPERATURE, DEWPOINT,
AND PRESSURE AT THE DATA POINT ALTITUDE. REQUIRE DATA
TO NORMALLY ACQUIRED ALTITUDES...USUALLY 60 K FEET.

SCHEDULE: REQUIRED ONCE DAILY

LOCATION: KSC AND EAFB
REQUIRE UPPER AIR OBSERVATIONS FROM SITE...
AS CLOSE TO RUNWAY AS POSSIBLE.

DATA ACCURACY: DATA MEASUREMENTS WILL OCCUR AS FOLLOWS:
SURFACE TO AROUND 60 K FEET OR TERMINATION, AND
REPORTED ACCORDING TO STANDARD NWS/AWS PROCEDURES.

REMARKS: UPPER AIR EQUIPMENT, MAINTENANCE, SUPPLIES AND TRAINING
WILL BE PROVIDED BY NASA, EXCEPT AT WSSH, THE ARMY WILL
PROVIDE THESE TO SUPPORT THEIR SITE.

DATA DISPOSITION: UPPER AIR DATA WILL BE TRANSMITTED IN
REAL-TIME VIA NORMAL WEATHER CIRCUITS.

COORDINATION: JSC/WS8/DORIS HOOD/281 483-1041

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3230 - METEOROLOGICAL OBSERVATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 13042
ITEM NUMBER: T27E

SUBSUPPLIER: EAFB ER WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/22/94
RESPONSE TRACKING: Z26133 Z26149 Z2641 Z2715 Z6826
Z8701

[PRD] DATABASE RECORD: 13043 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/27/06
INITIAL DATE: 06/03/88
ITEM NUMBER: T28DK DATE LAST CHANGED: 05/30/07
SECTION: 3230 TIME LAST CHANGED: 10:33:02

REQUESTER: JSC
SUBREQUESTER: I-PH-B JSC/WS8
TEST CODE: ISTRES MORON SUPSIM TAL
ZARAGOZA

ASSOCIATED DOC: 20007S 20017S 20029S
TRACKING NO. KING2001 L06-10-2 L111-11 L208-1 L2604
L2916 L3415 L3848 L4422 L4706
L5545 L710-1 L901-11 L909-4 R0610-3
R109-67 R26181 R8701

1. DESCRIPTION: AUTOMATIC WEATHER OBSERVATION EQUIPMENT FOR 24 HR A DAY SURFACE OBSERVATIONS TAL/ABORT SITES FOR OPERATIONAL USE DURING LAUNCH/LANDING AND BUILD CLIMATOLOGICAL DATA BASE.

DATA REQUIRED:

STANDARD SURFACE OBSERVATION INCLUDING:
WIND DIRECTION, WIND SPEED, TEMPERATURE, HUMIDITY, VISIBILITY
AND PRESSURE CALIBRATED TO AIR WEATHER SERVICE (AWS) STANDARDS
FOR AIRCRAFT OPERATIONS PRIOR TO EACH MISSION.

LOCATION: MORON AB SPAIN, ISTRES FRANCE, ZARAGOZA, SPAIN.
LOCATION OF UNIT AT EACH SITE WILL BE AS CLOSE
AS POSSIBLE TO THE RUNWAY.

CONTINUED

[PRD] DATABASE RECORD: 13043
ITEM NUMBER: T28DK

REMARKS: EQUIPMENT SUPPLIED BY NASA.

SCHEDULE: OBSERVATIONS TAKEN AUTOMATICALLY PER PROGRAMMED SCHEDULE
USUALLY EVERY HOUR, 24 HRS A DAY, 7 DAYS A WEEK, YEAR ROUND.

OBSERVATIONS WILL BE TAKEN AUTOMATICALLY PER PROGRAMMED SCHEDULE AS FOLLOWS:

VISIBILITY:	5 MINUTE AVERAGE EVERY 15 MINUTES
WIND SPEED AND DIRECTION:	5 MINUTE AVERAGE EVERY 15 MINUTES
PEAK WIND SPEED:	15 MINUTE PEAK WIND
TEMPERATURE:	LOG EVERY 30 MINUTES
RELATIVE HUMIDITY:	LOG ONCE AN HOUR
BAROMETRIC PRESSURE:	LOG EVERY 30 MINUTES
RAIN GUAGE:	LOG ONCE AN HOUR
RAIN GUAGE:	CUMULATIVE TOTAL LOG ONCE EVERY 4 HOURS
SOLAR RADIATION:	60 MINUTE AVERAGE EVERY HOUR
BATTERY:	LOG ONCE EVERY 4 HOURS

DATA DISPOSITION:

DATA WILL BE TRANSMITTED/DISPLAYED RESPECTIVELY AT THE MORON AB WEATHER OFFICE, THE OPERATIONS BUILDING AT ISTRES, FRANCE. THE OPERATIONAL BUILDING AT ZARAGOZA, AND VIA SATELLITE RELAY TO JSC/SMG. (JOHNSON SPACE CENTER/SPACEFLIGHT METEOROLOGY GROUP).

DATA WILL BE TRANSMITTED VIA SATELLITE TO JSC/SMG ONCE EVERY 3 HOURS AT 01:00:00 GMT FOR MORON, 01:04:30 GMT AT ZARAZOZA, SPAIN, AND 01:01:30 AT ISTRES, FRANCE.

DURING MISSION SUPPORT DATA WILL BE MADE AVAILABLE AT A MINIMUM OF ONCE AN HOUR AND UP TO A MAXIMUM OF EVERY 15 MINUTES FROM L-48 HOURS UNTIL TAL RELEASE. THIS DATA WILL BE AVAILABLE AT THE WEATHER OFFICE IN MORON, AT THE WEATHER OFFICE IN ISTRES, FRANCE, AND AT THE WEATHER OFFICE IN ZARAGOZA, SPAIN.

PRIOR TO LAUNCH - 48 HOURS ON EACH SHUTTLE MISSION THE HANDAR DATA MEMORY FOR MORON, ISTRES, AND ZARAGOZA SHOULD BE SAVED ON A FLOPPY DISKETTE. (PH-L)

CONTINUED

[PRD] DATABASE RECORD: 13043
ITEM NUMBER: T28DK

PRIOR TO LEAVING THE SITE A SECOND DATA DUMP SHOULD BE TAKEN & STORED ON THE SAME FLOPPY DISKETTE. THESE FLOPPIES SHOULD BE DELIVERED TO SMG FOR THEIR USE IN ESTABLISHING A DATA BASE FOR THESE SITES. DATA DISKETTES WILL BE FORWARDED TO SPACEFLIGHT METEOROLOGY GROUP (SMG), JOHNSON SPACE CENTER (ZS8) WITHIN 7 WORKING DAYS RETURN CONUS.(PH-L)

LOGISTICS: PROCUREMENT, INSTALLATION, CALIBRATION, AND MAINTENANCE WILL BE PROVIDED BY KSC.

TECH CONTACTS: JSC/WS8/TIM GARNER/281 483-1046
DDMS-W/1LT. KALEB NORDGREN/321 853-8484

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/27/06
RESPONSE TRACKING: Z26144 Z2982 Z3307 Z4235 Z4717
Z4728 Z5210 Z5314 Z5505 Z5547
Z5552 Z6568 Z8701

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: PH-L USK-426

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/27/06
RESPONSE TRACKING: Z26138 Z2982 Z3481 Z4235 Z4711
Z5508 Z5552 Z8701

[PRD] DATABASE RECORD: 13050 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/10/90
INITIAL DATE: 06/03/88
ITEM NUMBER: T34E DATE LAST CHANGED: 03/22/07
SECTION: 3230 TIME LAST CHANGED: 09:17:07

REQUESTER: JSC
SUBREQUESTER: I-PH-B JSC/WS8
TEST CODE: DFRC EAFB S0026.200 S0026.300
SUPSIM

ASSOCIATED DOC: 20007S 20026S

CONTINUED

[PRD] DATABASE RECORD: 13050
ITEM NUMBER: T34E

TRACKING NO.	KING2001	L008-1	L06-10-2	L06-11-7	L2604
	L3227	L3560	L912-4	R0610-3	R109-67
	R26181	R2661			
PRIORITY:	MANDATORY				
RATIONALE:	SAFETY ISSUE				

1. DESCRIPTION: WIND TOWER OBSERVATION..EAFB

DATA SOURCES/LOCATIONS:
AFFTC WILL PROVIDE METEOROLOGICAL DATA ON THE LAKEBED PERIPHERY NEAR RUNWAYS DESIGNATED FOR SHUTTLE USE. IN ADDITION, METEOROLOGICAL DATA WILL BE PROVIDED BY TOWERS LOCATED ON DESIGNATED SHUTTLE RUNWAYS, OR AT LOCATIONS REQUESTED BY THE SPACEFLIGHT METEOROLOGY GROUP (SMG) AT JSC FROM LAUNCH MINUS 48 HOURS UNTIL SUCCESSFUL LANDING.

DATA REQUIREMENTS:
WIND DIRECTION AND WIND SPEED SHOULD BE OUTPUT WITH A 2 MINUTE AVERAGE AND A 10 MINUTE PEAK WIND SPEED AND PEAK WIND DIRECTION, USING A SAMPLE RATE OF ONE SAMPLE PER SECOND. DIRECTION DEVIATION SHOULD BE OUTPUT TO CORRESPOND TO THE TWO MINUTE AVERAGE WIND DIRECTION. THE HEIGHT OF THE WIND SENSORS WILL BE AT 30 FEET. THE 1 SECOND DATA SHOULD BE STORED FOR

POST LANDING ANALYSIS. A TEMPERATURE AND A DEW POINT SENSOR WILL BE LOCATED ON ALL TOWERS AT A HEIGHT OF 6 FEET (2M) WITH INSTANTANEOUS READINGS AVAILABLE TO CORRESPOND WITH WIND READINGS.

DATA DISPOSITION:
ALL METEOROLOGICAL DATA OBTAINED FROM THE TOWERS WILL BE COLLECTED INTO ONE COMPUTER SYSTEM. COLLECTION OF DATA WILL BE IN REALTIME WITH DATA REFORMATTED INTO JSC WIND TOWER FORMAT (JSC PUB. 22955) FOR TRANSMISSION

TO JSC MIDDS. EXISTING DATA LINE FROM EAFB TO JSC MIDDS WILL BE USED FOR TRANSMISSION OF THIS DATA. REALTIME DATA TRANSFER OF JSC MIDDS SHOULD BE AT SAME FREQUENCY AS THE DATA THAT IS DISPLAYED LOCALLY AT EDWARDS.

LOGISTICS:
AFFTC WILL HAVE ALL RESPONSIBILITY FOR THE EQUIPMENT USED TO PROVIDE THIS DATA, AND TO INCLUDE PROCUREMENT, MAINTENANCE OF SOFTWARE AND

CONTINUED

[PRD] DATABASE RECORD: 13050
ITEM NUMBER: T34E

HARDWARE, AND REGULARLY SCHEDULED CALIBRATION OF EQUIPMENT TO MANUFACTURERS SPECIFICATIONS.

TECH CONTACT: JSC/WS8/TIM GARNER/281 483-1046
DFRC/GEORGE GRIMSHAW/661 276-3425

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/14/90
RESPONSE TRACKING: Z26133 Z26149 Z3578 Z3613

[PRD] DATABASE RECORD: 13051 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/20/95
INITIAL DATE: 06/03/88
ITEM NUMBER: T35E DATE LAST CHANGED: 11/17/06
SECTION: 3230 TIME LAST CHANGED: 07:10:46

REQUESTER: JSC
SUBREQUESTER: I-PH-B JSC/WS8
TEST CODE: SUPSIM WSSH

ASSOCIATED DOC: 20007S 20027S
TRACKING NO. KING2001 L008-1 L06-11-7 L2604 L3413
L3560 L507-4 L710-1 L909-5 R0610-3
R109-67 R26181 R2661 R8701 SHAW95
PRIORITY: MANDATORY
RATIONALE: SAFETY ISSUE

1. DESCRIPTION: AUTOMATED TOWER OBSERVATIONS - WSSH & WSMR

TIME:

REQUIRE DATA TO BE SENT TO CENTRAL COMPUTER IN REAL TIME EVERY 5 MINUTES FROM ALL THE WSSH (NORTHRUP STRIP) WIND TOWERS. REQUIRE DATA FROM SAMS TOWER TO BE SENT IN REAL TIME TO THE CENTRAL COMPUTER EVERY 15 MINUTES. NORTHRUP TOWER WINDS WILL BE TWO MINUTE AVERAGE WINDS WITH TEN MINUTE PEAK WINDS SPEED AND DIRECTION.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3230 - METEOROLOGICAL OBSERVATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 13051
ITEM NUMBER: T35E

LOCATION:

WIND TOWERS AT NORTHRUP STRIP LOCATED ON THE APPROACH ENDS OF RUNWAYS 17, AND 35; 4000 FT FROM THE SHUTTLE THRESHOLD AND THE SAMS TOWERS ALREADY IN PLACE AROUND THE WSMR.

DISPOSITION:

DATA TO BE TRANSMITTED FROM TOWERS INTO CENTRAL COMPUTER SYSTEM AT C-STATION. AFTER COLLECTION, DATA TO BE SENT IN REAL TIME TO THE JSC/SMG MIDDS II VIA DEDICATED COMMUNICATION LINE. THE DATA WILL BE TRANSMITTED IN THE JSC WIND TOWER FORMAT AS SPECIFIED IN JSC 22955. NORTHRUP STRIP RUNWAY DATA WILL BE AVAILABLE IN THE NORTHRUP WEATHER SITE OBSERVATION BUILDING.

LOGISTICS:

ATMOSPHERIC SCIENCE LABORATORY (ASL) WILL ASSUME ALL RESPONSIBILITY FOR THE EQUIPMENT USED TO PROVIDE THIS DATA, TO INCLUDE PROCUREMENT, MAINTENANCE OF SOFTWARE AND HARDWARE, AND REGULARLY SCHEDULED CALIBRATION OF EQUIPMENT TO MANUFACTURER'S SPECIFICATIONS.

TECH CONTACT: JSC/WS8/TIM GARNER/281 483-2226
WSTF/BOB MITCHELL/RC1/505 524-5774

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: WSMR
RESPONDER: BART KLEINFELDT/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/29/96
RESPONSE TRACKING: Z26133 Z2719 Z3484 Z3574 Z3637
Z7911 Z8701

[PRD] DATABASE RECORD: 250005 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/04/89
INITIAL DATE: 10/04/89
ITEM NUMBER: T37D DATE LAST CHANGED: 05/30/07
SECTION: 3230 TIME LAST CHANGED: 10:44:39

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3230 - METEOROLOGICAL OBSERVATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 250005
ITEM NUMBER: T37D

REQUESTER: JSC
SUBREQUESTER: I-PH-B JSC/WS8
TEST CODE: DODELS STSALL
TRACKING NO. KING2001 L06-10-2 L710-1 L906-8 L909-3
R0610-3
PRIORITY: REQUIRED
RATIONALE: ELS OBSERVATION

1. DATA REQUIRED: CONVENTIONAL SURFACE & UPPER AIR OBSERVATIONS FOR
DOD EMERGENCY LANDING SITES.
2. SURFACE
A. TIME (MIN): STANDARD TIMES
B. LOCATION: DOD ELS'S
3. UPPER AIR N/A
A. TIME (MIN): N/A
B. LOCATION: N/A
C. INTERVAL: N/A
D. ALTITUDE (KM): N/A
4. DATA PRIORITY: N/A
5. DATA ACCURACY; N/A
A. VALUE: N/A
B. CLASS: N/A
6. REMARKS: CONVENTIONAL AVIATION TERMINAL OBS XMITED OVER
NAT'L WX COMM NTWKS WILL BE USED FOR STATUS OF
DOD ELS'S. FOLLOWING THE OCCURRENCES OF A
CONTINGENCY REQUIRING AN EARLY FLIGHT TERMINATION,
TIME CRITICAL UPDATES TO WX OBS WILL BE PROVIDED
TO SMG/JSC FROM LOCAL WX STATIONS OF CONCERN OVER
AVAILABLE DOD CIRCUITS.

TECH CONTACT: JSC/RICHARD LAFOSSE/281-483-1048
HSFS-W/1LT. KALEB NORDGREN/321 853-84
84

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/05/89
RESPONSE TRACKING: Z2869 Z3469 Z8701

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3230 - METEOROLOGICAL OBSERVATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 250005
ITEM NUMBER: T37D

[PRD] DATABASE RECORD: 14131 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/28/91
INITIAL DATE: 03/12/91
ITEM NUMBER: E39K DATE LAST CHANGED: 12/07/06
SECTION: 3230 TIME LAST CHANGED: 10:41:30

REQUESTER: ER
SUBREQUESTER: ER I-PH-B
TEST CODE: RETREV STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 L3004 L3713 L3940 R109-67
R26162 R2694 RSRR8801 RSRR8803 SCRUB06

1. DESCRIPTION: METEOROLOGICAL OBSERVATIONS, SRB RECOVERY VESSEL

POSITION, WIND SPEED AND DIRECTION, SEA STATE
(DIRECTION AND HEIGHT), WEATHER AND SKY CONDITIONS
AIR TEMPERATURE, AND VISIBILITY. (SEE NOTE 1:)

TIME: L - 10 HOURS 30 MINUTES
L - 2 HOURS 30 MINUTES

LOCATION: WHILE AT SEA.

SUPPORT SRB RETRIEVAL AND AIR/SEA RESCUE

RELAY FROM SRB RECOVERY VESSEL TO RADIO ROOM
AT HANGER AF. RADIO ROOM WILL LOG AND CALL
RWO AT 321 853-8489 TO PASS OBSERVATION.

NOTE 1: IF THE CAPABILITY TO MEASURE SEA TEMPERATURE
BECOMES AVAILABLE, THIS MEASUREMENT WILL BE
REQUIRED ALSO.

TECH CONTACTS: JOE CHAPUT/USK-705/321 853-4032
KATHY WINTERS/45WS/DOR/321 853-8107

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3230 - METEOROLOGICAL OBSERVATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 14131
ITEM NUMBER: E39K

SUBSUPPLIER: I-PH-L USK-705

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/09/91
RESPONSE TRACKING: Z3016 Z3724 Z3982

[PRD] DATABASE RECORD: 18665 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/31/89
INITIAL DATE: 05/31/89
ITEM NUMBER: D44E DATE LAST CHANGED: 12/07/06
SECTION: 3230 TIME LAST CHANGED: 15:00:52

REQUESTER: HSFS
SUBREQUESTER: DDMS I-PH-B VALO92008 VALOE
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 R109-67 R2825
PRIORITY: MANDATORY
RATIONALE: SAFETY ISSUE

1. DESCRIPTION: UPPER AIR OBSERVATIONS - TAL - UPPER AIR EQUIPMENT, SUPPLIES, EQUIPMENT MAINTENANCE, AND EQUIPMENT TRAINING.

REQUEST ER PROVIDE RADIO AUTOMATIC THEODOLITE SOUNDER SYSTEMS EQUIPMENT, SUPPLIES (TO INCLUDE BALLOONS, SONDES, ETC., EXCLUDING HELIUM), EQUIPMENT MAINTENANCE AND TRAINING FOR OPERATING PERSONNEL AT ALL TAL SITES.

TECH CONTACT: DDMS-W/2LT JENNINGS/321 853-8493/8485

REFERENCE LLS SECT. 3230, ITEM T24DK, DBR 013036.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/11/89
RESPONSE TRACKING: Z2882

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3230 - METEOROLOGICAL OBSERVATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 18665
ITEM NUMBER: D44E

[PRD] DATABASE RECORD: 21060 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/13/90
INITIAL DATE: 03/13/90
ITEM NUMBER: E48T DATE LAST CHANGED: 12/07/06
SECTION: 3230 TIME LAST CHANGED: 07:50:12

REQUESTER: ER
SUBREQUESTER: I-PH-B JSC/DM3 JSC/MS4
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20017S
TRACKING NO. KING2001 L003-5 L3106 L805-1 L908-1
MK98 R109-67 R9901 SCRUB06
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: RANGE SAFETY TRAJECTORY DATA FOR DAY OF LAUNCH I-LOAD UPDATES (DOLILU)

RANGE SAFETY WIND DATA FOR DAY OF LAUNCH I-LOAD UPDATES (DOLILU) WILL BE TRANSMITTED FROM THE JSC FLIGHT DESIGN COMPUTER FACILITY (FDCF) IN HOUSTON TO THE 45TH SPACE WING (45 SW) CENTRAL COMPUTER COMPLEX (45 SW/CCC) AND TO THE RANGE SAFETY OFFICER'S DISPLAY SYSTEM. THE DATA TRANSMISSION FORMATS AND PROTOCOL FOR THIS DATA TRANSMISSION ARE DOCUMENTED IN THE DOLILU ICD, JSC-11534, VOLUME X.

REFERENCE THE FOLLOWING REQUIREMENTS:

SECTION	ITEM NO.	DBR NO.
2700	T107GT	020752
2700	T108EGT	020747
2734	T25GT	020753
2734	T26EGT	020748
2750	T208.2G	020813
2700	T126GT	522925
2734	T38GT	522926

POINT OF CONTACT: ER/WILLIAM SNIDER/45TH SW/SEOS/321-494-5845

TECH CONTACT: JSC/DM4/HENRY CORDOVA/281 483-6197

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3230 - METEOROLOGICAL OBSERVATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 21060
ITEM NUMBER: E48T

SUBSUPPLIER: JSC/ZS8
RESPONDER: KITTY CUNNINGHAM 281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/07/98
RESPONSE TRACKING: Z3546 Z3841 Z3867 Z4120

[PRD] DATABASE RECORD: 514574 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/17/91
INITIAL DATE: 04/17/91
ITEM NUMBER: T49E DATE LAST CHANGED: 10/27/06
SECTION: 3230 TIME LAST CHANGED: 09:48:01

REQUESTER: JSC
SUBREQUESTER: I-PH-B JSC/WS8
TEST CODE: EAFB LANDNG LAUNCH PREFLT

ASSOCIATED DOC: 20026S
TRACKING NO. KING2001 L06-10-2 L104-9 L3963 R0610-3
R109-67

1. DESCRIPTION: 24 HOUR-A-DAY SURFACE OBSERVATIONS AT EAFB

PROVIDE HOURLY OBSERVATIONS OF SURFACE CONDITIONS AT EDWARDS AIR FORCE BASE, CALIFORNIA, ON A 24 HOUR A DAY - 7 DAY A WEEK BASIS IN SUPPORT OF METEOROLOGICAL SUPPORT OF SHUTTLE OPERATIONS. THE OBSERVATION WILL BE TAKEN IN ACCORDANCE WITH FMH-1 AND WILL INCLUDE LAKEBED WIND TOWER READINGS IN REMARKS WHEN THE WINDS ARE AVAILABLE. THE WINDS IN REMARKS MAY BE DELETED WHEN EDWARDS WIND TOWERS ARE AVAILABLE IN JSC/MIDDS.

TECHNICAL CONTACT: JSC/WS8/TIM GARNER/281 483-1046

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 08/05/92
RESPONSE:
HOURLY OBSERVATIONS ON A 24 HOUR A DAY, 7 DAY A
WEEK BASIS CAN BE PROVIDED WITH THE FOLLOWING LIMITATIONS:

CONTINUED

[PRD] DATABASE RECORD: 514574
ITEM NUMBER: T49E

OBSERVER MANNING DOES NOT FALL BELOW 85 PERCENT OF THE
PRESENTLY AUTHORIZED LEVEL.

RESPONSE TRACKING: Z4022 Z4302 Z4705 Z4924

[PRD] DATABASE RECORD: 517364 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/17/91
INITIAL DATE: 10/17/91
ITEM NUMBER: H50E DATE LAST CHANGED: 12/07/06
SECTION: 3230 TIME LAST CHANGED: 15:03:29

REQUESTER: MSFC
SUBREQUESTER: I-PH-B MS081 VALO92005 VALOE
TEST CODE: STSALL
TRACKING NO. KING2001 R109-67 R4427
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: MIDDS IMAGERY DATA

MSFC REQUIRES MIDDS IMAGERY DATA FROM RWO MIDDS TO BE TRANSMITTED
TO THE MIDDS AT MSFC. DATA IS REQUIRED CONTINUOUSLY.

COORDINATION: USAF/MIKE GAWEL/321 853-8118
MSFC/EV13/RYAN DECKER/256 544-3068

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/04/91
RESPONSE TRACKING: Z4441

[PRD] DATABASE RECORD: 517463 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/27/06
INITIAL DATE: 11/12/91
ITEM NUMBER: T51D DATE LAST CHANGED: 05/31/07
SECTION: 3230 TIME LAST CHANGED: 08:20:11

REQUESTER: JSC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3230 - METEOROLOGICAL OBSERVATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 517463
ITEM NUMBER: T51D

SUBREQUESTER:	I-PH-B	JSC/WS8		
TEST CODE:	ISTRES	KSC	LANDNG	LAUNCH
	MORON	TAL	ZARAGOZA	

ASSOCIATED DOC:	20007S	20029S	20057S	20070S	
TRACKING NO.	KING2001	L06-10-2	L06-11-7	L114-3	L4202
	L4421	R0610-3	R109-67	R4706	

PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: CEILOMETERS TO MEASURE HEIGHT OF CLOUDS AT TAL SITES DURING LAUNCH OPERATIONS

DATA REQUIRED: HEIGHT OF CLOUDS ABOVE GROUND LEVEL UP TO 10,000 FEET WITH CAPABILITY TO REPORT TWO LEVELS. DATA WILL BE AVAILABLE IN THE NASA WEATHER FACILITY FROM LAUNCH MINUS 48 HOURS UNTIL SUCCESSFUL LAUNCH.

LOCATION: ISTRES, FRANCE; MORON, SPAIN AND ZARAGOZA, SPAIN. LOCATION OF EACH UNIT WILL BE IN AN AREA FREE FROM OBSTRUCTIONS BUT CLOSE ENOUGH TO OPERATIONS BUILDING TO PROVIDE POWER AND COMMUNICATIONS.

DATA DISPOSITION: DATA WILL BE TRANSMITTED/DISPLAYED, RESPECTIVELY, AT NASA WEATHER OFFICE AT EACH TAL SITE VIA MODEM CONNECTION ON A CONTINUOUS BASIS. THIS DATA WILL BE INCLUDED IN THE SURFACE OBSERVATIONS SENT TO JSC/SMG FOR SHUTTLE SUPPORT.

LOGISTICS: EQUIPMENT WILL BE PROCURED, INSTALLED, CALIBRATED, AND MAINTAINED BY KSC. CALIBRATION AND MAINTENANCE PROCEDURES SHOULD FOLLOW MANUFACTURER'S RECOMMENDATIONS.

POINT OF CONTACT: KSC/GLEN LOCKWOOD/PH-L/321 861-9310

TECHNICAL CONTACTS: JSC/WS8/TIM GARNER/281 483-1046
HSFS/1LT. KALEB NORDGREN/321-853-8484

CONTINUED

[PRD] DATABASE RECORD: 517463
ITEM NUMBER: T51D

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/27/06
RESPONSE TRACKING: Z0509-1

[PRD] DATABASE RECORD: 517464 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/13/93
INITIAL DATE: 11/12/91
ITEM NUMBER: T52E DATE LAST CHANGED: 11/17/06
SECTION: 3230 TIME LAST CHANGED: 07:11:34

REQUESTER: JSC
SUBREQUESTER: I-PH-B JSC/WS8
TEST CODE: EAFB LANDNG LAUNCH

ASSOCIATED DOC: 20007S 20026S
TRACKING NO. KING2001 L06-10-2 L06-11-7 L111-9 L208-1
L310-1 L4202 L4420 L4702 L5808
R0610-3 R109-67 R6103
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: CEILOMETERS TO MEASURE HEIGHT OF CLOUDS AT EDWARDS AFB FOR OPERATIONAL USE DURING LAUNCH/LANDING AND BUILD CLIMATOLOGICAL DATA BASE.

DATA REQUIRED: HEIGHT OF CLOUDS ABOVE GROUND LEVEL UP TO 10,000 FEET WITH CAPABILITY TO REPORT TWO LEVELS. DATA WILL BE AVAILABLE IN THE EAFB WEATHER OFFICE 24 HOURS A DAY, 7 DAYS A WEEK, 52 WEEKS A YEAR.

LOCATION: EDWARDS AFB - MIDFIELD RUNWAY 22

DATA DISPOSITION: DATA WILL BE TRANSMITTED/DISPLAYED, RESPECTIVELY, AT EAFB WEATHER OFFICE VIA MODEM CONNECTION ON A CONTINUOUS BASIS. THIS DATA WILL BE INCLUDED IN

CONTINUED

[PRD] DATABASE RECORD: 517464
ITEM NUMBER: T52E

THE SURFACE OBSERVATIONS USED FOR SHUTTLE SUPPORT.

LOGISTICS: EQUIPMENT WILL BE CALIBRATED AND MAINTAINED BY EAFB. CALIBRATION AND MAINTENANCE PROCEDURES SHOULD FOLLOW AIR FORCE TECHNICAL ORDERS.

TECHNICAL CONTACTS: JSC/WS8/TIM GARNER/281 483-1046
EAFB/PHIL HARVEY/661-277-4507

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/21/93
RESPONSE TRACKING: Z4509 Z4725 Z5104 Z5508 Z5717
Z5807 Z5826 Z6104

[PRD] DATABASE RECORD: 521616 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/04/93
INITIAL DATE: 11/10/92
ITEM NUMBER: T53EK DATE LAST CHANGED: 12/07/06
SECTION: 3230 TIME LAST CHANGED: 07:46:23

REQUESTER: JSC
SUBREQUESTER: I-KSC/KT-C-H JSC/MS4 JSC/WS8
TEST CODE: STSALL

ASSOCIATED DOC: 20007S 20028S
TRACKING NO. ERLSR9405 KING2001 L06-10-2 L06-11-7 L211-3
L310-1 L5316 L5602 L5808 L805-1
L908-1 MK98 R0610-3 R109-67 R303-4
R9901 SCRUB06
PRIORITY: REQUIRED
RATIONALE: REAL-TIME MONITORING OF UPPER WINDS FOR DAY OF LAUNCH

1. DESCRIPTION: DOPPLER RADAR WIND PROFILER

DATA REQUIRED: PROFILER WIND SPEEDS, DIRECTION, AND SHEARS VERSUS ALTITUDE. ADDITIONALLY, RADIAL VELOCITIES, SIGNAL

CONTINUED

[PRD] DATABASE RECORD: 521616
ITEM NUMBER: T53EK

POWER, NOISE POWER AND SPECTRAL WIDTH ARE REQUIRED FOR EACH BEAM.

TIME OF OBS:	LAUNCH SUPPORT: L-1 DAY AND EACH 15 MINUTES (AT A MINIMUM) FROM L-6:15 HRS TO L+2 HRS.
	NON-LAUNCH DAILY SUPPORT: 24 HRS A DAY AT INTERVALS OF AT LEAST 15 MINUTES.
LOCATION:	KSC WIND PROFILER AREA
INTERVAL:	150 METERS
ALTITUDE:	NOMINALLY, 2,000 TO 18,600 METERS; HOWEVER, THESE MAY BE ADJUSTED TO HIGHER ALTITUDES BY LSEAT DIRECTION.
DATA ACCURACY:	WIND SPEED: 1.0 M/S VEE ALTITUDE: +/- 15 M
PURPOSE:	WIND PROFILER DATA IS DESIRED FOR PRELAUNCH ASSESSMENT OF WIND PERSISTENCE AND WIND SHEAR, AS WELL AS POST FLIGHT ANALYSIS.
EQUIPMENT:	KSC 50 MHZ WIND PROFILER
DATA DISPOSITION:	WIND PROFILE COMPUTATION SHALL BE ACCOMPLISHED IN REAL TIME FROM SPECTRAL DATA USING A FIRST GUESS - MEDIAN FILTER TECHNIQUE. DURING THE PERIOD FROM L-6:15 HOUR TO L+30 MINUTE, THE WIND COMPUTATION PROCESS SHALL BE CONTINUOUSLY MONITORED AND QUALITY CONTROLLED. THE QC MONITOR SHALL NOTIFY MSFC WINDS AND SMG OVER LANDING FIELD PRIME 2 OF ANY ERRONEOUS WIND DATA. DURING OTHER NON-CRITICAL TIMES, THE COMPUTATION PROCESS SHOULD BE REVIEWED AT LEAST DAILY TO ENSURE THE FIRST GUESS IS ON TRACK. TRANSMISSION TO MIDDS SHALL BE IN ACCORDANCE WITH NASA JSC 22955 "METEOROLOGICAL DATA TRANSFER FORMAT FOR SPACE SHUTTLE MISSION SUPPORT".

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3230 - METEOROLOGICAL OBSERVATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 521616
ITEM NUMBER: T53EK

DATA ARCHIVE REQUIREMENTS: THE MOMENTS DATA AND MEDIAN FILTER FIRST GUESS FROM EACH 3 MINUTE READING SHOULD BE ARCHIVED. ALSO, THE SUPPORT SPECTRAL DATA FROM L-6 HRS TO L+1 HR SHOULD BE ARCHIVED.

REPAIR TIME: REQUIRED REPAIR TIME FOR THE PROFILER TO OPERATIONAL CAPABILITY IS NOT MORE THAN 24 HOURS DURING LAUNCH SUPPORT, AND 72 HOURS DURING NON-LAUNCH SUPPORT.

ON-SITE SUPPORT: LSEAT REQUIRES ON-SITE SUPPORT DURING PRELAUNCH OPERATIONS FROM L-6 HRS TO L+30 MIN.

TECH CONTACTS: CHRISTINE BOYKIN/JSC DM46/281 483-1251
JOHN MADURA/KT-C-H/321 867-0814
DORIS HOOD/JSC/WS8/321 861-1041

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER ZKM
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/22/99
RESPONSE TRACKING: Z5420 Z5550 Z5561 Z5717 Z5809
Z5826 Z6503 Z7918 Z9605

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/14/97
RESPONSE TRACKING: Z5420 Z5550 Z5563 Z5737 Z5809
Z5913 Z6027 Z6104 Z6116 Z6589
Z8204

[PRD] DATABASE RECORD: 528648 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/31/94
INITIAL DATE: 10/31/94
ITEM NUMBER: K54EK DATE LAST CHANGED: 12/07/06
SECTION: 3230 TIME LAST CHANGED: 15:06:07

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3230 - METEOROLOGICAL OBSERVATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 528648
ITEM NUMBER: K54EK

REQUESTER: KSC
SUBREQUESTER: KT-C
TEST CODE: STSALL
TRACKING NO. DB98 KING2001 L6604 MK98 R109-67
PRIORITY: MANDATORY
RATIONALE: REQUIRED DATA FOR LAUNCH SUPPORT.

1. DESCRIPTION: METEOROLOGICAL DATA TO THE E.R. (ROCC) PER WINDS SYSTEM

REAL TIME TEST DATA REQUIREMENT

PROVIDE THE FOLLOWING METEOROLOGICAL MEASUREMENTS TO THE EASTERN RANGE (E.R.) AT THE RANGE OPERATION CONTROL CENTER (ROCC), CONTINUOUSLY, 24 HOURS A DAY 7 DAYS A WEEK.

PROVIDE THIS DATA FROM USA INSTRUMENTATION CONTROL ROOM (LCC 2P20) TO THE WEATHER INFORMATION NETWORK DISPLAY SYSTEM (WINDS) FOR THE TRANSMITTING INTERFACE AND THE INCORPORATION INTO THE METEOROLOGICAL INTERACTIVE DATA DISPLAY SYSTEM (MIDDS) AND THE METEOROLOGICAL AND RANGE SAFETY SYSTEM (MARSS/ERDAS).

PAD A	PAD B	MEASUREMENTS:	
KMTHA 001A	KMTHD 001A	C/S 6 60 FT. LEVEL	WIND DIRECTION
KMTHA 002A	KMTHD 002A	C/S 3 60 FT. LEVEL	WIND DIRECTION
KMTLA 001A	KMTLD 001A	C/S 6 60 FT. LEVEL	WIND SPEED
KMTLA 002A	KMTLD 002A	C/S 3 60 FT. LEVEL	WIND SPEED
KMTQA 002A	KMTQD 002A	C/S 3 60 FT. LEVEL	RELATIVE HUMIDITY
KMTQA 003A	KMTQD 003A	C/S 6 60 FT. LEVEL	RELATIVE HUMIDITY
KMTTA 004A	KMTTD 004A	C/S 3 60 FT. LEVEL	TEMPERATURE
KMTTA 005A	KMTTD 005A	C/S 6 60 FT. LEVEL	TEMPERATURE

PRIME REQUESTER: JOHN MADURA/KT-C/321 867-0814

TECH CONTACT: FRANK MERCERET/KT-C/321 867-0818
321 853-8200

CONTINUED

[PRD] DATABASE RECORD: 528648
ITEM NUMBER: K54EK

DATA DISPOSITION

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	DATA XMIT	1	REAL TIME	E.R. ROCC 45TH WEATHER SQUADRON RWO 321 853-8485

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/31/94
RESPONSE TRACKING: Z6603

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/31/94
RESPONSE TRACKING: Z6603

[PRD] DATABASE RECORD: 532502 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/09/96
INITIAL DATE: 05/09/96
ITEM NUMBER: T55EK DATE LAST CHANGED: 12/07/06
SECTION: 3230 TIME LAST CHANGED: 15:07:09

REQUESTER: JSC
SUBREQUESTER: JSC/WS8
TEST CODE: STSALL

ASSOCIATED DOC: 20028S
TRACKING NO. KING2001 L06-10-2 L6604 L7608 L7705
MK98 R0610-3 R109-67
PRIORITY: REQUIRED
RATIONALE: REAL-TIME MONITORING OF UPPER WINDS FOR EOM

1. DESCRIPTION: DOPPLER RADAR WIND PROFILER

DATA REQUIRED: PROFILER WIND SPEEDS, DIRECTION, AND SHEARS VERSUS ALTITUDE. ADDITIONALLY, RADIAL VELOCITIES, SIGNAL

CONTINUED

[PRD] DATABASE RECORD: 532502
ITEM NUMBER: T55EK

POWER, NOISE POWER AND SPECTRAL WIDTH ARE REQUIRED FOR EACH BEAM.

TIME OF OBS:	EOM SUPPORT: EOM DAY AND EACH 15 MINUTES (AT A MINIMUM) FROM TD-8:00 HRS TO TD-0 HRS.
LOCATION:	KSC WIND PROFILER AREA
INTERVAL:	150 METERS
ALTITUDE:	NOMINALLY, 2,000 TO 18,600 METERS; HOWEVER, THESE MAY BE ADJUSTED TO HIGHER ALTITUDES BY SMG DIRECTION.
DATA ACCURACY:	WIND SPEED: 1.0 M/S VEE ALTITUDE: +/- 15 M
PURPOSE:	WIND PROFILER DATA IS DESIRED FOR EOM METEOROLOGICAL ASSESSMENT, WIND SHEAR, AND POST FLIGHT ANALYSIS.
EQUIPMENT:	KSC 50 MHZ WIND PROFILER
DATA DISPOSITION:	WIND PROFILE COMPUTATION SHALL BE ACCOMPLISHED IN REAL TIME FROM SPECTRAL DATA USING A FIRST GUESS - MEDIAN FILTER TECHNIQUE. DURING THE PERIOD FROM TD-8:00 HRS TO TD-0 HRS, THE WIND COMPUTATION PROCESS SHALL BE CONTINUOUSLY MONITORED AND THE WIND PROFILES SHALL BE MANUALLY QUALITY CONTROLLED PRIOR TO TRANSMISSION TO THE MIDDS. DURING OTHER NON-CRITICAL TIMES, THE COMPUTATION PROCESS SHOULD BE REVIEWED AT LEAST DAILY TO ENSURE THE FIRST GUESS IS ON TRACK. TRANSMISSION TO MIDDS SHALL BE IN ACCORDANCE WITH NASA JSC 22955 "METEOROLOGICAL DATA TRANSFER FORMAT FOR SPACE SHUTTLE MISSION SUPPORT".
DATA ARCHIVE REQUIREMENTS:	THE MOMENTS DATA AND MEDIAN FILTER FIRST GUESS FROM EACH 3 MINUTE READING SHOULD BE ARCHIVED. ALSO, THE SUPPORT SPECTRAL DATA FROM TD-8:00 HRS TO TD-0 HRS

CONTINUED

[PRD] DATABASE RECORD: 532502
ITEM NUMBER: T55EK

SHOULD BE ARCHIVED.

REPAIR TIME: REQUIRED REPAIR TIME FOR THE PROFILER TO OPERATIONAL CAPABILITY IS NOT MORE THAN 24 HOURS DURING EOM SUPPORT.

TECH CONTACTS: DORIS HOOD/JSC/WS8/281 483-1041
JOHN MADURA/KSC/KT-C/321 867-0814
FRANK MERCERET/KSC/KT-C/321 867-0818

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/22/99
RESPONSE TRACKING: Z6603 Z7918 Z9605

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: PH-B

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/10/96
RESPONSE TRACKING: Z8117

[PRD] DATABASE RECORD: 541233 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/06/97
INITIAL DATE: 11/06/97
ITEM NUMBER: K56E DATE LAST CHANGED: 12/21/06
SECTION: 3230 TIME LAST CHANGED: 13:55:13

REQUESTER: KSC
SUBREQUESTER: USK-522
TEST CODE: DFRC S0026.200 S0026.300 STSALL

ASSOCIATED DOC: 20007S 20026S
TRACKING NO. KING2001 L8710 MK98 SCRUB06
PRIORITY: REQUIRED
RATIONALE: HISTORICAL DATA

1. DESCRIPTION: WEATHER DATA REQUIREMENTS (L-10 HOURS)

CONTINUED

[PRD] DATABASE RECORD: 541233
ITEM NUMBER: K56E

DATA IS REQUIRED BY THE TECHNICAL ANALYSIS SECTION FOR EACH LAUNCH OR SCRUB PROPELLANT LOADING. PROVIDE THE FOLLOWING WEATHER DATA MEASUREMENTS:

LOCATION	MEASUREMENT	UNITS
PAD A AND B TOWERS AT CAMERA SITES 3 AND 6		
	WIND DIRECTION	DEGREES
	WIND SPEED	KNOTS
	BAROMETRIC PRESSURE	INCHES HG
	RELATIVE HUMIDITY	PERCENT
	TEMPERATURE	DEGREE F
SHUTTLE LANDING FACILITY SLF		
	WIND DIRECTION	DEGREES
	WIND SPEED	KNOTS
	DEW POINT	DEGREE F
	TEMPERATURE	DEGREE F

THE TIME PERIOD REQUESTED FOR EACH LOADING IS FROM ONE HOUR BEFORE THE START OF CHILLDOWN UNTIL ONE HOUR AFTER T-0 FOR LAUNCH OR ONE HOUR AFTER THE END OF DRAIN BACK FOR SCRUBS. THE NORMAL SAMPLING RATE OF 5 MINUTES BETWEEN MEASUREMENTS IS REQUESTED WITH TIMES REPORTED IN GMT.

DATA DISPOSITION:

TO FACILITATE THE TRANSMITTAL AND PLOTTING OF THE DATA, IT IS REQUESTED THAT THE DATA BE SENT AS AN ASCII TEXT FILE IN A FORMAT SUITABLE FOR READING INTO PLOT PROGRAMS. IT CAN BE SENT AS EMAIL TO THE REQUESTER AT THE INTERNET MAIL ADDRESS: Thomas.Trovillion-1@ksc.nasa.gov

NOTE: FROM TIME TO TIME IT IS ANTICIPATED THAT WEATHER DATA WILL BE REQUIRED FOR OTHER SPECIAL TEST. THESE WILL BE HANDLED AS

CONTINUED

[PRD] DATABASE RECORD: 541233
ITEM NUMBER: K56E

SEPARATE REQUESTS.

TECHNICAL CONTACT: THOMAS TROVILLION/USK-522/321 264-8451
KATHY WINTERS/45WS/DOR/321 853-8107

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/13/97
RESPONSE TRACKING: Z8728

[PRD] DATABASE RECORD: 554521 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/17/00
INITIAL DATE: 02/17/00
ITEM NUMBER: T57EK DATE LAST CHANGED: 12/07/06
SECTION: 3230 TIME LAST CHANGED: 15:08:59

REQUESTER: JSC
SUBREQUESTER: JSC/WS8 KSC/KT-C
TEST CODE: SLF STSALL

ASSOCIATED DOC: 20028S
TRACKING NO. KING2001 L002-1 L06-10-2 R0610-3 R101-1
R109-67

1. DESCRIPTION: AUTOMATED SURFACE VISIBILITY OBSERVATIONS FROM LOCATIONS WEST OF THE SHUTTLE LANDING FACILITY (SLF)

DATA REQUIRED: SURFACE VISIBILITY OBSERVATIONS FROM LOCATIONS WEST OF SLF TO DETECT FOG AND OTHER OBSTRUCTIONS TO VISIBILITY.

A. DATA TO BE REPORTED IN REAL TIME AT 5 MINUTE INTERVALS. DATA LATENCY SHALL NOT EXCEED 2 MINUTES FROM TIME OF OBSERVATION TO RECEIPT AT THE JOHNSON SPACE CENTER.

B. DATA TO INCLUDE SURFACE VISIBILITY IN TENTHS OF A STATUTE

CONTINUED

[PRD] DATABASE RECORD: 554521
ITEM NUMBER: T57EK

MILE, EXTINCTION COEFFICIENT, AND AN INDICATION OF DAYTIME OR NIGHTTIME.

2. TIME NEEDED	PRIORITY	RATIONALE
L-36 HRS THRU L-6 HRS	R	RTLS/AOA/1ST DAY PLS ABORT LANDING WEATHER FORECAST PREPARATION.
L-6 HRS THRU 1ST DAY PLS	R	RTLS/AOA/1ST DAY PLS ABORT LANDING WEATHER ANALYSIS, EVALUATION, AND FORECAST PREPARATION.
TD-6 HRS THRU EOM	R	EOM LANDING SITE WEATHER ANALYSIS, EVALUATION, AND FORECAST PREPARATION.
24 HOURS DAILY	D	MISSION SIMULATION TRAINING AND CLIMATOLOGICAL ANALYSIS.

3. LOCATION: SEVERAL PREDETERMINED LOCATIONS WEST OF THE SLF TO BE STRATEGICALLY SELECTED. RESEARCH BY THE APPLIED METEOROLOGY UNIT (1994) HAS SHOWN THAT FOG IS DIFFICULT TO DETECT BY REMOTE SENSING, ESPECIALLY AT NIGHT, AND THAT AUTOMATED VISIBILITY SENSORS LOCATED WEST OF THE SLF WILL IMPROVE THE DETECTION AND FORECAST OF FOG AT THE SLF FOR SPACE SHUTTLE ABORT AND END-OF-MISSION (EOM) LANDINGS.

4. DATA DISPOSITION: DATA TO BE TRANSMITTED VIA NORMAL WEATHER CIRCUITS TO JSC MIDDS II.

DATA ACCURACY: TRANSMITTED DATA SHOULD BE REPORTED TO THE NEAREST 0.1 STATUTE MILE. INSTRUMENT MEASUREMENT ACCURACY OVER A RANGE FROM 0.17 TO 18 STATUTE MILES SHALL BE PLUS OR MINUS 0.02/KM PLUS OR MINUS 5% OF MANUFACTURER'S REFERENCE FORWARD SCATTERER AND PLUS OR MINUS 15% RMSE COMPARED TO TRANSMISSOMETERS

IN A RANGE OF WEATHER CONDITIONS TO INCLUDE FOG

CONTINUED

[PRD] DATABASE RECORD: 554521
ITEM NUMBER: T57EK

AND RAIN.

TECHNICAL CONTACTS: JSC/WS8/TIM GARNER/281 483-1046
E-MAIL: TIMOTHY.W.GARNER1@JSC.NASA.GOV
ER/CSR/HAL HERRING/321 853-8211
E-MAIL: HAROLD.HERRING@PATRICK.AF.MIL
KSC/KT-C/FRANK MERCERET/321 867-0818
E-MAIL: FRANCIS.MERCERET-1@KSC.NASA.GOV
KSC/KT-C/JOHN MADURA/321 867-0814
E-MAIL: JOHN.MADURA-1@KSC.NASA.GOV

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: CSR ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 02/17/00
RESPONSE:
INSTALLATION OF SENSORS ON WINDS TOWERS HAS NOT
YET BEEN APPROVED BY 45 SW.

A REQUIREMENT HAS BEEN GENERATED FOR ENGINEERING TO
DEVELOP INGESTORS AND DECODERS FOR MIDDS TO HANDLE
DATA FROM THE AUTOMATED VISIBILITY SENSORS.

RESPONSE TRACKING: Z101-1 Z101-3

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: KT-C

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 02/17/00
RESPONSE:
REFERENCE ITEM 13 DATA ACCURACY: KSC CAN NOT GUARANTEE
THE ACCURACIES REQUESTED. THE ACCURACY WILL BE LIMITED
TO THE VISIBILITY SENSOR'S CAPABILITIES IE MANUFACTURE'S
SPECIFICATIONS.

RESPONSE TRACKING: Z101-1

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3230 - METEOROLOGICAL OBSERVATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 584297 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/12/05
INITIAL DATE: 09/12/05
ITEM NUMBER: T58E DATE LAST CHANGED: 10/27/06
SECTION: 3230 TIME LAST CHANGED: 10:02:03

REQUESTER: JSC
SUBREQUESTER: JSC/WS8
TEST CODE: CCAFS KCOF STSALL

ASSOCIATED DOC: 20007S 20017S 20028S
TRACKING NO. L05-9-1 L06-10-2 R0610-3
PRIORITY: REQUIRED
RATIONALE: SEE DESIGNATION/RATIONALE FOR BREAK DOWN OF PRIORITY.

1. DESCRIPTION: SURFACE OBSERVATIONS..CONUS..LAUNCH, RTLS, EOM

DATA REQUIRED: SURFACE METEOROLOGICAL OBSERVATIONS

A. SURFACE OBSERVATIONS AT PATRICK AFB IN SUPPORT OF SPACE SHUTTLE LAUNCH AND LANDING OPERATIONS.

REGULAR AND SPECIAL SURFACE OBSERVATIONS WILL BE TAKEN FROM PATRICK AFB (KCOF) IN STANDARD METAR FORMAT IN SUPPORT OF SPACE SHUTTLE LAUNCH OPERATIONS BEGINNING L-8 HOURS AND CONTINUING THROUGH L-0 OR DECLARED LAUNCH SCRUB.

FOR EOM SCHEDULED LANDING AT KSC AND ALL SUBSEQUENT WAVE-OFF DAYS, OBSERVATIONS WILL BEGIN AT TD-33 HOURS AND CONTINUE THROUGH TD-0 HOURS OR DECLARD WAVE-OFF.

TECHNICAL CONTACT: JSC/WS8/TIM GARNER/281 483-1046

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/22/06

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3300 - RECOVERY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD:	256702	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	LLS	APPROVAL DATE:	04/06/05
		INITIAL DATE:	04/22/91
ITEM NUMBER:	DT1DEGKXZ	DATE LAST CHANGED:	05/30/07
SECTION:	3300	TIME LAST CHANGED:	10:45:39

REQUESTER:	HSFS	JSC		
SUBREQUESTER:	JSC/DM4	JSC/MG		
TEST CODE:	ALS	DODAEL	DODALS	DODELS
	EAFB	ELS	INFO	KSC
	S61A03	STSALL	WSSH	

ASSOCIATED DOC:	20026S	20027S	20028S		
TRACKING NO.	KING2001	L002-3	L004-4	L01-4-2	L05-03-2
	L05-3-5	L104-13	L106-2	L209-6	L2966
	L3002	L3013	L308-4	L3511	L3626
	L4009	L506-2	L5109	L5208	L709-1
	L7916	L8108	L8603	L903-8	R0504-3
	R104-1	R109-65	R26210	R2956	R3005
	R4306	R7403	R9308	SCRUB06	SHAW95

1. DESCRIPTION: LANDING SITES

The Shuttle has three types of landing (recovery) sites.

The first type is the End-of-Mission Site (EOM). The EOM site has a convoy, Shuttle landing aids, dedicated rescue forces, and other support as required. KSC will always be the prime intended EOM landing site; Edwards and White Sands are designated weather alternates. WSSH will act as the tertiary site when required. EOM convoy support will be determined by the MMT. Alternate EOMS may require support.

The second type is the Augmented Landing Site (ALS). This type includes

Abort-Once-Around (AOA), Return-To-Launch-Site (RTLS), and Transoceanic Abort Landing (TAL) sites. Augmented sites typically have shuttle landing aids, Space Shuttle trained Fire/Crash/Rescue forces, medical support and NASA representation.

The third type is the Emergency Landing Site (ELS). Other than a 7,500 foot runway with a Tacan or DME, NASA has no specified support requirements. They are used in a variety of situations (Ascent Abort, De-Orbit underburn, specific launch inclinations, etc). A subset of the ELS's are Department of Defense ELS's (DoD ELS) which are higher in

CONTINUED

[PRD] DATABASE RECORD: 256702
ITEM NUMBER: DT1DEGKXZ

priority on the ELS preference list. The DoD bases may offer improved communications, logistics and security support over civilian airfields. DDMS will advise these bases of their possible use, provide shuttle specific training (as determined by DDMS), and status them before and during each mission. Increased readiness may be possible with adequate advance notification and appropriate request from NASA.

DDMS will provides periodic Space Shuttle specific training for DoD forces as follows.

At DOD ELS's, no funds should be expended for support of a deployed ground operations team prior to an actual shuttle landing unless specific funding approval is obtained from NASA Program/Project channels changes to this requirement should be coordinated through through NASA/JSC/MO and DDMS-O.

Technical Contact: JSC/MT3/RAY BANKS/281 483-8233
JSC/MO/Don McCormack/281-483-1267
JSC/DM-46/Marth Linde/281-483-1943
PAFB/HSFS-O/321-494-5116
KSC/PH-L/Dean Schaaf/321-861-9311

REF: FLS3300, ITEM DT1DEGKXZ, DBR 020925

SPACE SHUTTLE APPROVED LANDING SITES WITH TYPE DESIGNATORS

LANDING SITE	EOM	RTLS	AOA	TAL	ELS	NOTE/REMARK
Amberly, Australia					L,H	
Amilcar Cabral, Cape Verde					L	
Andersen AFB, Guam					L,H	a
Arlanda, Sweden						H: d (Inclin > 57 deg)
Ascension					H	a
Atlantic City, NJ					H	a,b
Beja, Portugal						H: b
Ben Guerir, Morocco					L,H	ELS ONLY
Bermuda					L	b
Cecil Field, FL					L	c
Cherry Point MCAS, NC						H: a,b

CONTINUED

[PRD] DATABASE RECORD: 256702
ITEM NUMBER: DT1DEGKXZ

China Lake NAS, CA					L			a,c
Diego Garcia, Chagos Is.					L,H			a
Dover AFB, DE						H		a,b (57 deg)
Dyess AFB, TX					L,H			a,c
Edwards AFB, CA	X		X		L,H			a
Ellsworth AFB, SD						H		a,d (for EABF)
Elmendorf, AK					H			a
Esenboga, Turkey						H		
RAF Fairford, UK						H		a,b
Gander, Canada						H		b
Goose Bay, Canada						H		b (57 deg)
Grant County,WA(Moses Lake)						H		d (for EAFB)
Halifax Int'l, Canada						H		b
Hao Atoll, Fr Polynesia					L,H			
Honolulu, HI					L,H			a
Hoedspruit, So. Africa					L			
Istres, France				X	L,H			b
Keflavik, Iceland					H			b (57 deg)
King Khaled, Saudi Arabia					L,H			
Kinshasa, Republic of the Congo					L			
Koln-Bonn, Germany						H		
Kennedy Space Center, FL	X	X	X		L,H			
Lajes AB, Azores					H			a,b
Las Palmas, Canary Is.					L			
Lincoln Municipal, NE						H		d (for EAFB)
MacDill AFB, Fl					L			a,c
Monrovia, Liberia					L			b
Moron AB, Spain				X	L,H			a
Mountain Home AFB, ID						H		a,d (for EAFB)
Myrtle Beach Jetport, SC						H		b (57 deg)
Nassau Intl, Bahamas					L,H			c (for KSC)
Oceana NAS, VA						H		a,b
Orlando Intl, FL					L			
Otis ANGB, MA						H		a,b
Pearce, Australia					L			
Pease ANGB, NH						H		a,b
Shannon, Ireland						H		b
Skid Strip, Fl					L			a,c

CONTINUED

[PRD] DATABASE RECORD: 256702
ITEM NUMBER: DT1DEGKXZ

Souda Bay NAS, Crete	:	:	:	:	M	: a (Inclin > 40 deg)
Stephenville, Canada	:	:	:	:	H:	b (Daylight only)
St. John's, Canada	:	:	:	:	H:	b
Tamanrasset, Algeria	:	:	:	:	:	:
Francis S. Gabreski, NY	:	:	:	:	:H	:a,b
Tindal, Australia	:	:	:	:	:L,H:	
Vandenberg AFB, Ca	:	:	:	:	:L	:a,c
Wake Island	:	:	:	:	:H	:a
Wallops, VA	:	:	:	:	:H	:b
White Sands Space Harbor	: X :		: X :		:L,H	:a
Wilmington, NC	:	:	:	:	:H	:b
Yokota AB, Japan	:	:	:	:	:H	:a
Zaragoza AB, Spain	:	:	:	: X :	L,H	:

NOTES: a = DoD ELS/Site
b = Launch abort site
c = Downrange abort/Underburn site loaded in onboard software
d = Downrange abort/Underburn site not loaded in onboard software
e = Weather alternate when WSSH is only AOA site

L = low inclination launch
M = mid inclination launch
H = high inclination launch

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 04/06/05
RESPONSE TRACKING: Z29113 Z3007 Z3014 Z3023 Z3624
Z4310 Z8134 Z8605 Z9309

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB ER WSMR
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 04/06/05

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3300 - RECOVERY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 256702
ITEM NUMBER: DT1DEGKXZ

RESPONSE TRACKING: Z29113 Z3007 Z3014 Z3023 Z3624
Z4310 Z8134 Z8607 Z9309

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: I-MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 04/06/05
RESPONSE TRACKING: Z3007 Z3014 Z3023 Z3624 Z4310
Z8134 Z8607 Z9309

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: PH-L USK-426

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 04/06/05
RESPONSE TRACKING: Z29113 Z3007 Z3014 Z3023 Z3624
Z4310 Z8134 Z8605 Z9309

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 04/06/05
RESPONSE TRACKING: Z29113 Z3007 Z3014 Z3023 Z3624
Z4310 Z8134 Z8607 Z9309

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 04/06/05
RESPONSE TRACKING: Z29113 Z3007 Z3014 Z3023 Z3624
Z4310 Z8134 Z8607 Z9309

[PRD] DATABASE RECORD: 12947 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/06/01
INITIAL DATE: 08/14/89
ITEM NUMBER: T1.1DEKTXZ DATE LAST CHANGED: 05/30/07
SECTION: 3300 TIME LAST CHANGED: 10:33:02

REQUESTER: JSC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3300 - RECOVERY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 12947
ITEM NUMBER: T1.1DEKTXZ

SUBREQUESTER: JSC/SD2
TEST CODE: EAFB INFO SLF STSALL
WSSH

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
TRACKING NO. KING2001 L01-9-1 L02-1-1 L04-10-4 L8108
L908-7 R108-3 R109-65 R3409

1. DESCRIPTION: EMERGENCY MEDICAL SERVICES (EMS)

DETAILED REQUIREMENTS FOR EMERGENCY MEDICAL SERVICES IN SUPPORT OF SHUTTLE LAUNCHES AND LANDINGS ARE DEFINED IN THE JSC MEDICAL OPERATIONS AND REQUIREMENTS DOCUMENT (MORD), JSC 13956 DEFINITIONS OF CONTINGENCY MODES I-VIII MAY BE FOUND IN NSTS DIRECTIVE 63.

COORDINATION: JSC/SD2/MICHAEL CHANDLER/281 483-2956

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 09/06/01
RESPONSE TRACKING: Z8134

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB ER WSMR
RESPONDER: BART KLEINFELDT/321 853-8650

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 09/06/01
RESPONSE TRACKING: Z8134

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: YA-F4

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 09/06/01
RESPONSE TRACKING: Z8134

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)

CONTINUED

[PRD] DATABASE RECORD: 12947
ITEM NUMBER: T1.1DEKTXZ

RESPONDER: KITTY CUNNINGHAM/ 281 483-0572

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 09/06/01
RESPONSE:

RESPONSE TRACKING: Z8134

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: XE
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 09/06/01
RESPONSE TRACKING: Z8134

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 09/06/01
RESPONSE TRACKING: Z8134

[PRD] DATABASE RECORD: 294800 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/06/06
INITIAL DATE: 02/02/90
ITEM NUMBER: T2D DATE LAST CHANGED: 05/31/07
SECTION: 3300 TIME LAST CHANGED: 07:20:48

REQUESTER: JSC
SUBREQUESTER: JSC/SF4
TEST CODE: KSC SLF STSALL

ASSOCIATED DOC: 20028S
TRACKING NO. KING2001 L001-11 L01-9-1 L02-1-1 L04-10-4
L06-10-3 L06-7-3 L3625 L511-3 L604-4
L607-5 L7201 L7204 L7911 L9903
R0607-4 R0611-1 R108-3 R109-65 R2809
R6532 R7203 SCRUB06

CONTINUED

[PRD] DATABASE RECORD: 294800
ITEM NUMBER: T2D

1. DESCRIPTION: SEARCH AND RESCUE (SAR) AT THE LAUNCH SITE, TRANSOCEANIC ABORT LANDING (TAL) SITES, AND END-OF-MISSION (EOM) SITES.

PROVIDE DEDICATED SAR ASSETS CAPABLE OF DAY AND NIGHT OPERATIONS FOR AN IMMEDIATE RESPONSE TO:

- SPACE SHUTTLE LAUNCH/LANDING CONTINGENCIES (MODE I-VIII) AT KSC AND OUT TO THE LIMITS OF THE AOR FROM KSC.
- FROM THE TAL SITE TO THE LIMITS OF THE AOR.
- SPACE SHUTTLE LANDING CONTINGENCIES WITHIN 50 NM OF DESIGNATED EOM SITES.

1. FOR LAUNCH:
   A. PROVIDE RESCUE HELICOPTERS CAPABLE OF SAR AND MEDEVAC OUT TO 200 NM DOWNRANGE. (REFERENCE PRD SECTION 3300, ITEM T4.2D). THE HIGHEST PROBABILITY FOR BAILOUT IS OUT TO 200 NM DOWNRANGE FROM KSC AND WITHIN 50 NM OF THE TAL SITE, BUT BAILOUT MAY OCCUR FURTHER OUT AT KSC. PROVIDE HELICOPTER TRANSPORT FOR KSC F/C/R FORCES AS OUTLINED IN SECTION 5200 ITEM KT10.1D. (THESE MAY BE THE SAME HELICOPTERS USED FOR SAR/MEDEVAC).

   B. PROVIDE MULTIPLE FIXED-WING AIRCRAFT TO SUPPORT SAR ACTIVITIES, INCLUDING REFUELING OF SUPPORT HELICOPTERS AT KSC, ALONG THE TRAJECTORY FROM KSC TO THE LIMITS OF THE AOR (INCLUDING AN OPEN OCEAN BAILOUT SCENARIO). RESCUE ACTIVITIES SHOULD INCLUDE AT A MINIMUM, THE CAPABILITY TO PLACE RESCUE PERSONNEL, RAMZ RAFTS, AND MA-1/MA-2 (OR EQUIVALENT) SURVIVAL RAFTS IN THE VICINITY OF THE CREWMEMBERS TO AID IN SURVIVAL WHILE AWAITING RECOVERY. POSITION ONE FIXED-WING AIRCRAFT 175 MN DOWNRANGE BY L-10 MINUTES TO EXPEDITE LOCATING AND MARKING THE POSITION OF THE ASTRONAUTS IN THE HIGH PROBABILITY AREA NEAR KSC.

   C. COORDINATE THE RECOVERY/RETURN OF THE ASTRONAUT CREW BEYOND 200 NM FROM KSC TO THE TAL SITE (OPEN OCEAN BAILOUT SCENARIO) USING ANY AVAILABLE ASSESTS.

2. FOR TAL:
   A. PROVIDE PREPOSITIONED AIR DROP QUALIFIED FIXED-WING AIRCRAFT FULLY EQUIPPED WITH PARARESCUE AND MEDICAL TEAMS AS THE PRIMARY

CONTINUED

[PRD] DATABASE RECORD: 294800
ITEM NUMBER: T2D

SEARCH ASSET FOR LAND/SEA SAR. RESCUE ACTIVITIES SHOULD INCLUDE AT A MINIMUM, THE CAPABILITY TO PLACE RESCUE PERSONNEL, AND MA-1/MA-2 (OR EQUIVALENT) SURVIVAL RAFTS FOR OPEN OCEAN SCENARIOS IN THE VICINITY OF THE CREWMEMBERS TO AID IN SURVIVAL WHILE AWAITING PICKUP. THE HIGHEST PROBABILITY FOR BAILOUT IS WITHIN 50 NM OF THE SITE AND ALONG THE FLIGHT TRAJECTORY TO THE LIMITS OF THE AOR.

B. AUGMENT WITH AIRCRAFT FROM OTHER TAL SITES AS THE SITUATION ALLOWS.

C. COORDINATE RECOVERY/RETURN OF THE ASTRONAUT CREW FROM ALONG THE FLIGHT TRAJECTORY TO THE TAL SITE USING ANY AVAILABLE ASSETS.

3. FOR CONUS LANDINGS:

A. PROVIDE PREPOSITIONED HELICOPTERS (WITH MAN-RATED HOIST) TO CONDUCT SAR AND MEDEVAC (REFERENCE PRD SECTION 3300, ITEM T4.2D) WITHIN 50 NM OF THE PRIMARY SHUTTLE LANDING NAVIGATION AID AT CONUS LOCATIONS FOR EOM. AT KSC, PROVIDE HELICOPTER TRANSPORT FOR KSC F/C/R FORCES AS OUTLINED IN SECTION 3300, ITEM KT10.1D.

B. FOR SAR OUTSIDE 50 NM, THE REGIONAL SAR CENTER HAS RESCUE RESPONSIBILITY.

C. BEYOND 50 NM, THE HOIST DOD COMMANDER HAS FINAL DETERMINATION AS TO COMMITMENT OF HIS ASSETS TO SUPPORT SAR.

D. FOR NOMINAL LANDINGS AT EOM SITES, DOD HELICOPTERS ARE REQUIRED FOR A POTENTIAL MEDEVAC UNTIL RELEASED BY THE CREW SURGEON OR DEPUTY CREW SURGEON. THE CREW SURGEON OR DEPUTY CREW SURGEON WILL NOTIFY THE EMS COORDINATOR OF THE RELEASE AND THE EMS COORDINATOR WILL NOTIFY THE DOD SURGEON AND LRD.

4. OTHER:

A. ALL SUPPORT ASSUMES THAT ENVIRONMENTAL CONDITIONS PERMIT SAR OPERATIONS.

B. NASA IS RESPONSIBLE FOR FUNDING PARARESCUE RAMZ KITS, ASSOCIATED EQUIPMENT, AND TRAINING. ALL ASSOCIATED FLIGHT COSTS INCURRED BY THE DOD ARE REIMBURSABLE BY NASA.

C. THE LAUNCH AND ENTRY SUIT (LES) ADVANCED CREW ESCAPE SUIT (ACES) AND WATER SURVIVAL GEAR IS DESIGNED TO PROTECT THE ASTRONAUT CREW FOR APPROXIMATELY 6 HOURS WITHOUT A RAFT AND 24 HOURS IN A RAFT. TEST DATA HAS DOCUMENTED THE ONSET OF EXTREME DISCOMFORT AND

CONTINUED

[PRD] DATABASE RECORD: 294800
ITEM NUMBER: T2D

PERFORMANCE DECREMENT AT APPROXIMATELY 5 HOURS UNDER WORST CASE CONDITIONS. THE INITIAL CONDITION OF CREW MEMBERS AND ACCOMPANYING ENVIRONMENTAL CONDITIONS COULD NEGATIVELY IMPACT THE CREW SURVIVAL TIMES QUOTED ABOVE.

D. THE RESPONSE TIMES FOR OPEN OCEAN MODE VIII WITHIN 200 NM OF KSC ARE TO RESPOND IMMEDIATELY TO THE SITUATION WITH DEDICATED ASSETS, RECOVERING THE ASTRONAUT CREW AS SOON AS POSSIBLE. THE TARGET TIMES FOR RECOVERY SHOULD NOT EXCEED: LOCATE AND PROVIDE ASSISTANCE WITHIN 3 HOURS, AND RECOVER WITHIN 6 HOURS.

E. TARGET RESPONSE FOR OPERATIONS BETWEEN SUNSET AND SUNRISE (PERIODS OF DARKNESS) WILL BE ON A "BEST EFFORT" BASIS.

NOTE: REFERENCE PARAGRAPH 2.A: DUE TO LIMITED RESOURCES, ONLY TWO FIXED-WING AIRCRAFT ARE AVAILABLE TO SUPPORT THIS TAL SITE REQUIREMENT. BOTH AIRCRAFT WILL BE FULLY EQUIPPED WITH PARARESCUE AND MEDICAL TEAMS AND WILL BE PREPOSITIONED AT THE PRIMARY TAL SITE AND A SECONDARY TAL SITE. WHEN NASA BRINGS UP THREE TAL SITES, MORON AB, SPAIN WILL BE THE LOCATION WITHOUT ON-SITE FIXED-WING SAR/MEDICAL SUPPORT.

REFERENCE PARAGRAPH 3.A: MAN-RATED HOIST CAPABILITY IS NOT AVAILABLE ON LOCALLY ASSIGNED HELICOPTERS AT HOLLOMAN AFB/WSSH. SUPPORT FROM NON-LOCAL, HOIST EQUIPPED, SAR HELICOPTERS (IF AVAILABLE) WILL BE BY SPECIAL REQUEST FROM NASA AND AT AN ADDITIVE COST TO THE NORMAL SUPPORT POSTURE.

TECH CONTACTS: JSC/SD2/MICHAEL CHANDLER/281 483-2956
PAFB/HSFS-O/321-494-5116

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/06/06
RESPONSE TRACKING: Z108-5 Z3623 Z6023 Z6524 Z8006
Z8327

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3300 - RECOVERY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 264602 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/09/97
INITIAL DATE: 04/24/89
ITEM NUMBER: K2.1DEHKT DATE LAST CHANGED: 05/30/07
SECTION: 3300 TIME LAST CHANGED: 10:33:16

REQUESTER: KSC
SUBREQUESTER: EI KSC/SA-G
TEST CODE: INFO KSC SLF STSALL

ASSOCIATED DOC: 20028S
TRACKING NO. KING2001 L8108 MK98 R109-45 R2802
R2809 SCRUB06
PRIORITY: REQUIRED
RATIONALE: NOT A CONSTRAINT TO LAUNCH OR LAND.

1. DESCRIPTION: CONTINGENCY RESPONSE FORCE - KSC

KSC PLANS TO PROVIDE A CONTINGENCY RESPONSE FORCE FOR RESPONDING TO AN ORBITER FLIGHT CREW OFF RUNWAY MISHAP. THIS FORCE CONSISTS OF SPECIALIZED TEAM ELEMENTS NECESSARY TO PRESERVE LIFE, REDUCE INJURIES, PRESERVE THE ORBITER AND PROPERTY, AND SECURE THE SITE.

TECH CONTACT: W.C. HIGGINS/SA-G/321 867-3982
LRD/PH-L/321 861-9300

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z2801 Z8134

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z2801 Z8134

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3300 - RECOVERY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 264602
ITEM NUMBER: K2.1DEHKT

RESPONSE TRACKING: Z2801 Z8134

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z2801 Z8134

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z2801 Z8134

[PRD] DATABASE RECORD: 303102 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/05/01
INITIAL DATE: 09/06/88
ITEM NUMBER: T3.1K DATE LAST CHANGED: 11/29/06
SECTION: 3300 TIME LAST CHANGED: 09:29:55

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: KSC SLF STSALL

ASSOCIATED DOC: 20007S 20028S
TRACKING NO. KING2001 L01-9-1 L02-1-1 L04-10-4 L2642
R108-3 R109-65

1. DESCRIPTION: EMERGENCY MEDICAL SERVICES (EMS)

PROVIDE ADDITIONAL MEDEVAC CAPABILITY AT KSC FOR INJURED FLIGHT CREW MEMBERS DURING LAUNCH AND LANDING. ADDITIONAL HELICOPTERS AND MEDICAL PERSONNEL ARE REQUIRED TO SUPPLEMENT DOD SAR/MEDEVAC FORCES DUE TO THE LARGE NUMBER OF POTENTIALLY INJURED FLIGHT CREWMEMBERS AND SUPPORT PERSONNEL DURING LAUNCH AND LANDING CONTINGENCIES (MODES I-VII). HELICOPTERS AND MEDICAL PERSONNEL ARE REQUIRED TO PROVIDE MEDICAL CAPABILITY (TRAINING EXERCISES, NOMINAL PAD OPERATIONS) AT ALL OTHER TIMES WHEN DOD FORCES ARE NOT AVAILABLE.

COORDINATION: JSC/SD2/MICHAEL CHANDLER/281 483-2956

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3300 - RECOVERY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 303102
ITEM NUMBER: T3.1K

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: JJ-3

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/05/01
RESPONSE TRACKING: Z26211

[PRD] DATABASE RECORD: 12950 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/31/04
INITIAL DATE: 03/04/91
ITEM NUMBER: T4DK DATE LAST CHANGED: 05/30/07
SECTION: 3300 TIME LAST CHANGED: 10:33:02

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: EAFB LANDNG SLF STSALL
TDBM WSSH

ASSOCIATED DOC: 20026S 20027S 20028S
TRACKING NO. KING2001 L01-9-1 L02-1-1 L04-10-4 L04-3-1
L102-9 L3204 L3704 L607-5 L7911
L812-1 R0403-3 R108-3 R109-65 SCRUB06

1. DESCRIPTION: EMERGENCY MEDICAL SERVICES (EMS)

EMS TEAMS AND DOD SAR/MEDEVAC FORCES REQUIRED FOR NOMINAL LAUNCH AND LANDING SHALL BE ON-CALL AND AVAILABLE TO SUPPORT A CONTINGENCY LANDING AT KSC, DFRC/EAFB, AND WSSH AFTER NOTIFICATION OF A LANDING FOR THE PRIME LANDING OPPORTUNITY. KSC AND DFRC/EAFB PERSONNEL MUST BE READY TO SUPPORT WITH 4 HOURS NOTIFICATION. WSSH MUST BE READY TO SUPPORT WITH 24 HOURS NOTIFICATION. SUPPORT FOR OTHER LANDING OPPORTUNITIES WILL BE ON AN "AS AVAILABLE" BASIS.

COORDINATION: JSC/SD2/MICHAEL CHANDLER/281 483-2956

NOTE: WILCO WITH 24-HOUR ADVANCE NOTIFICATION OF DECLARED LANDING SITE.

LESS THAN 24-HOUR NOTICE, DOD WILL RESPOND WITH

CONTINUED

[PRD] DATABASE RECORD: 12950
ITEM NUMBER: T4DK

RESOURCES/PERSONNEL AS AVAILABLE. DOD WILL ATTEMPT TO PROVIDE ALL REQUESTED SAR/MEDVAC SERVICES/PERSONNEL ASAP.

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/16/04
RESPONSE TRACKING: Z0403-5 Z0406-5 Z3208 Z3706 Z6023
Z8006

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: TA-C
RESPONDER: DON DOERR/321 867-6387

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/31/04

[PRD] DATABASE RECORD: 12951 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/18/06
INITIAL DATE: 02/02/90
ITEM NUMBER: T4.2D DATE LAST CHANGED: 05/30/07
SECTION: 3300 TIME LAST CHANGED: 10:33:02

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: STSALL TAL
TRACKING NO. KING2001 L001-11 L01-9-1 L02-1-1 L04-10-4
L06-7-3 L3625 L407-2 L511-3 L604-4
L607-5 L6810 L7703 L7911 L8005
R0607-4 R108-3 R109-65 R6532 R7203
SCRUB06

1. DESCRIPTION: MEDICAL EVACUATION (MEDEVAC) OF ASTRONAUTS FROM THE LAUNCH SITE, TRANSOCEANIC ABORT LANDING (TAL) SITES, AND END-OF-MISSION (EOM) SITES.

A. PROVIDE DEDICATED CAPABILITY AT LAUNCH, TAL, AND EOM* FOR MEDEVAC OF THE ASTRONAUT CREW FROM THE LANDING SITE TO THE DESIGNATED INTERMEDIATE/DEFINITIVE MEDICAL CARE FACILITY (IMCF/DMCF).

CONTINUED

[PRD] DATABASE RECORD: 12951
ITEM NUMBER: T4.2D

1. PROVIDE PREPOSITIONED FIXED-WING AIRCRAFT AT EACH DESIGNATED TAL SITE, CONFIGURED FOR MEDEVAC, AND READY TO IMMEDIATELY TRANSPORT ASTRONAUTS TO AN IMCF/DMCF FOLLOWING A LANDING.

2. PROVIDE PREPOSITIONED HELICOPTERS (WITH MAN-RATED HOISTS AND DAY/NIGHT HOIST CAPABLE CREWS), ONE FOR EACH TWO ASTRONAUTS (SEE REMARKS FOR RATIONALE) AT KSC, AND EOM* SITES TO SUPPORT RECOVERY/MEDEVAC OF THE ASTRONAUT CREW TO MULTIPLE AND GEOGRAPHICALLY DISPERSED IMCF/DMCF'S. HELICOPTERS MUST BE CAPABLE OF LANDING ON OR IN CLOSE PROXIMITY TO THE PRIMARY HELIPAD SUPPORTING THE MEDICAL FACILITY. HELICOPTERS MUST ALSO BE CAPABLE OF LANDING ON OR IN CLOSE PROXIMITY TO DESIGNATED TRIAGE SITES AT KSC LAUNCH AREA AND ALL EOM TRIAGE AND IMCF/DMCF SITES. SUPPORT WILL BE REQUIRED AS FOLLOWS:

LAUNCH DAY SUPPORT	REQUIRED RESOURCES	REQUIRED ARRIVAL TIME (SEE REMARKS FOR RATIONALE)
	ALL HELOS	*ON STATION FOR CREW INGRESS
	ALL HELOS AT SLF	*L-10 MINUTES
		REQUIRED DEPARTURE TIME
		*UNTIL FLIGHT CREW DEPARTS THE BLAST DANGER AREA (FOR LAUNCH DAY SCRUB)
		*MECO

LANDING DAY SUPPORT	REQUIRED RESOURCES	REQUIRED ARRIVAL TIME
	ALL HELOS	*FOR CLEARANCE OF RUNWAY AIRSPACE
		REQUIRED DEPARTURE TIME
		*WHEN RELEASED BY THE CREW SURGEON OR DEPUTY CREW SURGEON FOR A POTENTIAL MEDEVAC. THE CREW SURGEON OR DEPUTY CREW SURGEON WILL NOTIFY

CONTINUED

[PRD] DATABASE RECORD: 12951
ITEM NUMBER: T4.2D

THE EMS COORDINATOR OF
THE RELEASE AND THE EMS
COORDINATION WILL NOTIFY
THE DOD SURGEON AND LRD.

*WSSH EOM SUPPORT WILL TYPICALLY BE CONSIDERED ON EOM+2 AS A WEATHER ALTERNATE WITH 24 HOURS NOTIFICATION.

3. MEDEVAC AIRCRAFT AT ALL LOCATIONS MAY BE USED FOR THE OTHER SUPPORT REQUIREMENTS ON A NON-INTERFERENCE BASIS.

B. ALL MEDICAL TRANSPORTATION FROM THE SCENE TO THE IMCF/DMCF SHALL INCLUDE THESE CAPABILITIES:

1. ADVANCED LIFE SUPPORT, INCLUDING
   A. ESTABLISHING AND MAINTAINING AIRWAY
   B. CONTROL OF BLEEDING
   C. BODY IMMOBILIZATION
   D. IV FLUIDS AND MEDICATION ADMINISTRATION
   E. CARDIAC DEFIBRILLATION

2. TWO WAY COMMUNICATION

3. EMERGENCY MEDICAL KITS AND 1 LITTER PER FLIGHT CREWMEMBER.

C. THE MOST RAPID TRANSPORTATION RESPONSE MODE AVAILABLE (GROUND, AIR OR WATER) WILL BE PROVIDED FOR TRANSPORT FROM LAUNCH, LANDING, OR ACCIDENT SITE TO IMCF/DMCF.

1. PRIMARY MODE WILL BE AIRCRAFT (WHEN AVAILABLE) WHICH MEET DOD SPECIFICATIONS FOR NUMBER OF ILL OR INJURED TO BE TRANSPORTED.

2. ON LAND, THE SECONDARY MODE WILL BE EMS VEHICLES WHICH MEET DOD/DOT/GSA EMS SPECIFICATIONS.

REMARKS:

HELICOPTERS MUST BE ABLE TO ALLOW IMMEDIATE TRANSPORT OF SEVERELY INJURED CREWMEMBERS WITHOUT HAVING TO DELAY TO PICK UP CREWMEMBERS

CONTINUED

[PRD] DATABASE RECORD: 12951
ITEM NUMBER: T4.2D

WITH LESS SEVERE INJURIES. DISPERSION OF INJURED CREWMEMBERS MAY BE REQUIRED: (1) TO AVOID EXCEEDING EMERGENCY ROOM CAPABILITIES AND (2) TO TRANSPORT INJURED CREWMEMBERS TO THE FACILITY MOST CAPABLE OF TREATING SPECIFIC INJURIES.

ALL HELOS ARE REQUIRED TO SUPPORT CREW INGRESS PRIOR TO LAUNCH. THE INITIAL SUPPORT TIMELINE BEGINS AT APPROXIMATELY L-1 HOURS AND 50 MINUTES. WHEREBY SOME OR ALL HELOS MAY BE REQUIRED TO FLY THE RAMGE CLEARING MISSION. THE DOD HELICOPTERS USED IN THE RANGE CLEARING MISSIO N WILL IMMEDIATELY BREAK OFF AND RETURN TO SUPPORT ANY PAD EMERGENCY. IF FOR ANY REASON, ONE OF MORE OF THE DOD HELICOPTERS BECOME UNAVAILABLE, OR CANNOT RETURN IN TIME, NASA HELICOPTERS WILL BE USED TO BACKFILL AS MEDEVAC PLATFORMS. ALL HELOS WILL BE REQUIRED ON STANBY AT THE SLF AT L-10 MINUTES IN ORDER TO ALLOW FOR REFUELING PRIOR TO LAUNCH. IF THE LAUNCH IS SCRUBBED, THE HELOS WILL BE REQUIRED TO SUPPORT MEDEVAC CAPABILITY UNTIL THE CREW ONLY CLEARS THE BDA (APPROXIMATELY 60 MINUTES POST-LAUNCH SCRUB). POST LAUNCH SUPPORT AT KSC WILL BE REQUIRED UNTIL MECO IS DECLARED (APPROXIMATELY T+9 MINUTES).

LANDING DAY SUPPORT REQUIRES ALL HELOS ON STANDBY AT THE RUNWAY FOR CLEARANCE OF IMMEDIATE AIRSPACE (APPROXIMATELY LD-30 MINUTES), AND SUPPORT IS REQUIRED UNTIL RELEASED BY THE CREW SURGEON OR DEPUTY CREW SURGEON FOR A POTENTIAL MEDEVAC. THE CREW SURGEON OR THE DEPUTY CREW SURGEON WILL NOTIFY THE EMS COORDINATOR OF THE RELEASE AND THE EMS COORDINATOR WILL NOTIFY THE DOD SURGEON AND LRD. MEDEVAC SUPPORT WILL BE UTILIZED ONCE THE ONSITE SURGEON FEELS THAT THE PATIENT(S) HAS/HAVE BEEN STABILIZED ENOUGH FOR TRANSPORT TO ONE OF THE DESIGNATED LOCAL DEFINITIVE MEDICAL CARE FACILITIES.

NOTE:
A. REFERENCE AOA TASKING - THE DOD WILL NOT PROVIDE HELICOPTER SUPPORT FOR AOA PER GUIDANCE FROM NASA/JSC/PROGRAM OFFICE.
B. REFERENCE PARAGRAPH A.1, DUE TO LIMITED RESOURCES, ONLY TWO FIXED-WING AIRCRAFT ARE AVAILABLE TO SUPPORT THIS TAL SITE REQUIREMENT. BOTH AIRCRAFT WILL BE FULLY EQUIPPED WITH MEDICAL TEAMS AND WILL BE PREPOSITIONED AT THE PRIMARY TAL SITE AND A SECONDARY TAL SITE. WHEN NASA BRINGS UP THREE TAL SITES, MORON AB, SPAIN WILL BE THE LOCATION WITHOUT ON-SITE FIXED WING

CONTINUED

[PRD] DATABASE RECORD: 12951
ITEM NUMBER: T4.2D

MEDEVAC SUPPORT DUE TO THE AVAILABILITY OF A DEFINITIVE MEDICAL CARE FACILITY WHICH IS IMMEDIATELY ACCESSIBLE VIA AMBULANCE. IN THE EVENT A TAL IS DECLARED WITH LANDING AT MORON AB, C-130'S FROM THE OTHER TAL SITES WILL DEPLOY TO MORON AB TO PROVIDE ANY ADDITIONAL SUPPORT REQUIRED.

C. REFERENCE 1.C.2 - GROUND MEDEVAC TRANSPORTATION WILL NOT BE PROVIDED BY THE DOD AT NON-DOD SITES.

TECH CONTACTS: JSC/SD2/MICHAEL CHANDLER/281 483-2956
PAFB/DDMS-O/321-494-5116

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/19/06
RESPONSE TRACKING: Z3623 Z6524 Z6815 Z8006 Z8327

[PRD] DATABASE RECORD: 347625 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/24/90
INITIAL DATE: 01/24/90
ITEM NUMBER: E5K DATE LAST CHANGED: 02/07/07
SECTION: 3300 TIME LAST CHANGED: 08:25:20

REQUESTER: ER
TEST CODE: RETREV S51F03 STSALL

ASSOCIATED DOC: 20007S 25407B
TRACKING NO. KING2001 L3609 R109-65 SCRUB06 SHAW95

1. DESCRIPTION: THE TWO NASA RETRIEVAL VESSELS STATIONED NEAR THE SRB IMPACT AREA ARE REQUIRED TO SEARCH THE SURROUNDNG AREA FOR SHIP AND AIRCRAFT TRAFFIC WITHIN THE LIMITS OF THEIR EXISTING RADAR AND OPTICAL CAPABILITIES. AS SPECIFIED IN THE OPS PLAN FOR SOLID ROCKET BOOSTER (SRB) RETRIEVAL, THE MARINE OPERATIONS MANAGER (MOM) ON THE NO.1 RETRIEVAL VESSEL WILL NOTIFY THE BOOSTER RECOVERY DIRECTOR (BRD) IN HANGAR AF WHEN THE RETRIEVAL VESSELS ARE ON STATION AND STATE WHETHER THE SURROUNDING AREA APPEARS FREE OF INTRUDING VESSELS AND

CONTINUED

[PRD] DATABASE RECORD: 347625
ITEM NUMBER: E5K

AIRCRAFT. SIGHTING REPORTS WILL BE MADE TO THE BRD AND WILL INCLUDE:

A. TARGET IDENTIFICATION (IF POSSIBLE)
B. BEST ESTIMATE OF TARGET PRESENT POSITION
C. BEST ESTIMATE OF TARGET PRESENT SPEED AND HEADING

THE BRD WILL RELAY THESE SIGHTING REPORTS TO THE LANDING RECOVERY DIRECTOR (LRD). THE LRD WILL IN TURN INFORM THE SUPERINTENDENT OF RANGE OPERATIONS (SRO). IF THE ER SURVEILLANCE CONTROL OFFICER (SCO) REQUIRES ADDITIONAL INFORMATION, THE SRO WILL ADVISE THE LANDING RECOVERY DIRECTOR (LRD) ON OIS 135 OF HIS DESIRE TO COORDINATE WITH THE BRD AND IF APPROVED, THE SCO WILL PROCEED TO OBTAIN SIGHTING STATUS INFORMATION FROM THE BRD.

SIGHTING REPORTS WILL START NO EARLIER THAN T-2 HOURS.

COORD.: KSC/USK-706/JOHN FISCHBECK/321 853-3789
TECH CONTACTS: KSC/TED MOSTELLER/321 861-9307

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: PH-L USK-705

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/25/90
RESPONSE TRACKING: Z3608

[PRD] DATABASE RECORD: 13624 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/06/91
INITIAL DATE: 08/08/89
ITEM NUMBER: T8D DATE LAST CHANGED: 05/30/07
SECTION: 3300 TIME LAST CHANGED: 10:33:02

REQUESTER: JSC
TEST CODE: RECOVY STSALL TAL
TRACKING NO. KING2001 L07-1-1 L109-8 L4411 L908-7
R0701-6 R109-65 R2654 R2659 R3414
R4410

CONTINUED

[PRD] DATABASE RECORD: 13624
ITEM NUMBER: T8D

1. DESCRIPTION: FLIGHT CREW TRANSPORT TO ROTA AFTER TAL

IF NO INJURIES ARE INCURRED DURING THE EXECUTION OF A TAL, THE ORBITER FLIGHT CREW, A PHYSICIAN, AND A JSC REPRESENTATIVE WILL BE PROVIDED AIRCRAFT TRANSPORTATION FROM THE TAL SITE TO NS ROTA. THE AIRCRAFT SHOULD DEPART THE TAL SITE APPROXIMATELY 4 HOURS AFTER ORBITER LANDING.

NOTE: IF THE TAL AIRCRAFT CANNOT SUPPORT, OTHER AVAILABLE DOD AIRCRAFT WILL BE OBTAINED ON A MISSION NON-INTERFERENCE BASIS.

COORD: JSC/DM/MARTIN LINDE/281 483-1943

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/06/91
RESPONSE TRACKING: Z3408 Z4445

[PRD] DATABASE RECORD: 516963 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/24/91
INITIAL DATE: 09/24/91
ITEM NUMBER: T8.1D DATE LAST CHANGED: 05/31/07
SECTION: 3300 TIME LAST CHANGED: 08:19:25

REQUESTER: JSC
SUBREQUESTER: JSC/MG
TEST CODE: RECOVY STSALL TAL
TRACKING NO. KING2001 L109-8 R109-65 R4410 SCRUB06

1. DESCRIPTION: FLIGHT CREW TRANSPORT FROM PICKUP POINT TO CONUS

A NASA AIRCRAFT WILL BE DISPATCHED TO NAS ROTA TO RETURN THE CREW TO THE CONUS. IN THE EVENT THE NASA AIRCRAFT WILL BE UNAVAILABLE TO FUNCTION AS THE CREW RECOVERY AIRCRAFT AFTER A TAL LANDING OF THE ORBITER, DDMS WILL PROVIDE A BRAVO ALERT AIRCRAFT TO FUNCTION AS THE CREW RECOVERY AIRCRAFT. IF THE AIRCRAFT IS ACTIVATED, IT WILL TRAVEL TO THE KSC SHUTTLE LANDING FACILITY TO PICK UP THE CREW RECOVERY TEAM & CARRY THEM TO THE LOCATION OF THE ORBITER CREW. THE ORBITER CREW WILL BE PICKED UP THERE AND FLOWN BACK TO HOUSTON. TO

CONTINUED

[PRD] DATABASE RECORD: 516963
ITEM NUMBER: T8.1D

ACCOMMODATE THE EXPECTED NUMBER OF PERSONS, PALLET SEATS SHOULD BE PROVIDED FOR A MAXIMUM OF 20 PERSONS. THE AIRCRAFT MAY BE REMOVED FROM BRAVO ALERT AFTER TAL OPPORTUNITY HAS PASSED.

NASA WILL NORMALLY GIVE HSFS A MINIMUM OF 72 HOURS NOTICE FOR PLANNED OUT OF SERVICE TIMES FOR THEIR DOD CREW RECOVERY AIRCRAFT. IN THIS EVENT, THE AIRCRAFT WILL BE PLACED ON BRAVO ALERT FOR THE PLANNED LAUNCH DAY. IF THE NASA AIRCRAFT GOES OUT OF SERVICE UNEXPECTEDLY CLOSER TO LAUNCH, HSFS WILL MAKE A "BEST EFFORT" TO PROVIDE THE DOD CREW RECOVERY AIRCRAFT.

COORDINATION: JSC/DV/JOE AQUINO/281 483-4033

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/06/91
RESPONSE TRACKING: Z4444

[PRD] DATABASE RECORD: 14087 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/21/94
INITIAL DATE: 03/11/88
ITEM NUMBER: D9K DATE LAST CHANGED: 12/07/06
SECTION: 3300 TIME LAST CHANGED: 15:17:09

REQUESTER: HSFS
SUBREQUESTER: DDMS I-PH-B
TEST CODE: BENGUE DODALS ISTRES MORON
STSALL TAL ZARAGOZA

ASSOCIATED DOC: 20029S 20057S
TRACKING NO. KING2001 L6513 R109-65 R2687 RSRR01
SCRUB06
PRIORITY: REQUIRED
RATIONALE: REQUIRED TO COORDINATE DOD CONTINGENCY SUPPORT.

1. DESCRIPTION: ACCESS TO TAL COMMUNICATIONS

A. THE ON-SITE DDMS/LNO REQUIRES ACCESS TO THE

CONTINUED

[PRD] DATABASE RECORD: 14087
ITEM NUMBER: D9K

TAL LANDING OPERATIONS NET (TO INCLUDE LFP-1 AND TAL AC/ORB) DURING PRE/POST-LAUNCH OPERATIONS. ACCESS MAY BE REQUIRED TO COMMUNICATE WITH SUPPORT AND/OR SAR AIRCRAFT, TO ESTABLISH AIR-TO-GROUND COMMUNICATIONS RELAY, AND FOR CONTINGENCY COMMAND AND CONTROL.

USE OF THE TAL LANDING OPERATIONS NET WILL BE LIMITED TO CONTINGENCY OPERATIONS TO THE MAXIMUM EXTENT POSSIBLE.

TECH CONTACT: (KSC)DEAN SCHAAF/PH-L/321 861-9311
(D)DDMS-0/321-494-5116

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: PH-L USK-426

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/22/94
RESPONSE TRACKING: Z26138 Z6575

[PRD] DATABASE RECORD: 558797 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/10/01
INITIAL DATE: 04/11/01
ITEM NUMBER: K13DK DATE LAST CHANGED: 05/31/07
SECTION: 3300 TIME LAST CHANGED: 09:59:07

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 L100-2 R109-65 SCRUB06
PRIORITY: MANDATORY
RATIONALE: CREW SAFETY

1. DESCRIPTION: SRB RECOVERY SHIP SEARCH AND RESCUE (SAR) SUPPORT

BOTH SRB RECOVERY SHIPS WILL BE PREPARED TO RESPOND TO A SPACE SHUTTLE CONTINGENCY AND PROVIDE SAR SUPPORT TO HSFS AS REQUIRED. SAR DUTIES MAY INCLUDE SURFACE SEARCH, SURVIVOR RESCUE, LIMITED MEDICAL SUPPORT INCLUDING DECOMPRESSION, SALVAGE OPERATIONS, AND HELICOPTER

CONTINUED

[PRD] DATABASE RECORD: 558797
ITEM NUMBER: K13DK

HOIST OPERATIONS TO AND/OR FROM THE SRB SHIPS. SRB RECOVERY SHIP SUPPORT WILL BE REQUESTED THROUGH THE NASA LANDING RECOVERY DIRECTOR (LRD). AFTER RELEASE BY LRD, THE SRB RECOVERY SHIPS WILL RECEIVE SAR TASKINGS/DIRECTION DIRECTLY FROM THE DOD. IN ORDER TO ENSURE GOOD COMMUNICATIONS LINKS, THE LEAD SRB RECOVERY SHIP WILL ESTABLISH CONTACT WITH THE DOD APPROXIMATELY TWO HOURS PRIOR TO EVERY LAUNCH.

COORDINATION: JOHN FISCHBECK/USK-705/321 853-3789

TECH CONTACT: HSFS-0/321-494-5116
LRD/PH-L/321 861-9300

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/11/01
RESPONSE TRACKING: Z100-2

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: USK-705

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/10/01

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3400 - OTHER TECHNICAL SUPPORT

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD:	209396	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	LLS	APPROVAL DATE:	02/07/02
		INITIAL DATE:	02/02/90
ITEM NUMBER:	T1DEK	DATE LAST CHANGED:	05/30/07
SECTION:	3400	TIME LAST CHANGED:	10:33:12

REQUESTER:	JSC				
SUBREQUESTER:	JSC/MV	VALO92010	VALOE		
TEST CODE:	KSC	STSALL			
TRACKING NO.	KING2001	L001-11	L02-2-1	L203-3	L3625
	L4717	R109-39	SCRUB06		

1. DESCRIPTION: SHUTTLE TRAINING AIRCRAFT - KSC

SHUTTLE TRAINING AIRCRAFT (STA) OPS ARE PLANNED AT KSC, FLORIDA, IN PREPARATION FOR RTLS CREW TRAINING FOR ALL FLIGHTS. TRAINING AT KSC WILL NORMALLY BE LIMITED TO USE OF ONE STA. HOWEVER AN OCCASIONAL SECOND STA WILL BE REQUIRED AT KSC. THE FOLLOWING PARAGRAPHS DEFINE THE KSC AND DOD SUPPORT REQUIRED ACTIVITIES.

STA OPERATIONAL SITE REQUIREMENTS:

1. RESTRICTED AIRSPACE - RESTRICTED AIRSPACE HAS BEEN ESTABLISHED AT KSC FOR STA OPERATIONS. IT IS NECESSARY THAT THIS AIRSPACE BE ACTIVATED FOR EACH TRAINING SESSION.
2. SURVEILLANCE RADAR - SURVEILLANCE RADAR COVERAGE IS REQUIRED TO MAINTAIN STA SEPARATION FROM OTHER AIR TRAFFIC. IT MAY BE ADVISABLE TO REQUEST THE SERVICES OF AN FAA SYSTEM SINCE THEY WILL BE PROVIDING TRAFFIC SEPARATION WHEN THE STA IS OUTSIDE THE RESTRICED AIRSPACE (ABOVE FLIGHT LEVEL 180). (ER)
3. MSBLS - IT IS ANTICIPATED THAT THE MICROWAVE SCANNING BEAM LANDING SYSTEM WILL BE REQUIRED FOR ALL STA TRAINING OPERATIONS AT KSC. (KSC)
4. TACAN - A TACAN IS REQUIRED TO UPDATE THE NAVIGATION SYSTEM OF THE STA. (KSC) THE TACAN AT THE KSC SLF IS REQUIRED FOR STA FLIGHTS. (KSC) THE PAFB TACAN WILL BE USED AS A BACKUP. (DDMS)
5. DGPS - A SPECIAL CATEGORY I DIFFERENTIAL GLOBAL POSITIONING SYSTEM (DGPS) GROUND TRANSMITTER IS REQUIRED TO UPDATE THE STA. OPERATIONAL STATUS OF THE DGPS SYSTEM WILL BE PROVIDED TO STA PILOTS DURING EACH TRAINING MISSION.
6. VLA - VISUAL LANDING AIDS INCLUDING BALL/BAR AND PRECISION APPROACH PATH INDICATOR (PAPI) LIGHTS ARE REQUIRED FOR EVERY STA TRAINING MISSION.
7. XENON LIGHTS - XENON LIGHTS ARE REQUIRED FOR RUNWAY LANDING

CONTINUED

[PRD] DATABASE RECORD: 209396
ITEM NUMBER: T1DEK

AT NIGHT STA TRAINING OPERATIONS.

8. CRASH AND RESCUE - AN O-11/P-4 TYPE FIRE TRUCK, A RESCUE VEHICLE, AND A CREW OF FIVE CRASH AND RESCUE PERSONNEL WILL BE REQUIRED AT THE KSC SLF RUNWAY DURING STA OPERATIONS. AN STA BRIEFING WILL BE PROVIDED FOR THESE PERSONNEL. (KSC)
9. CONTROL TOWER - A CONTROL TOWER OR GROUND OBSERVER'S STATION IS REQUIRED AT THE KSC SLF LANDING SITE TO ADVISE THE STA CREW OF ANY LOW ALTITUDE AIR TRAFFIC IN THE AREA. IT IS NECESSARY THAT THE TOWER BE MANNED DURING STA MISSIONS. (KSC)
10. TWO-WAY COMMUNICATIONS - TWO WAY COMMUNICATIONS ARE REQUIRED BETWEEN THE KSC SLF CONTROL TOWER OPERATION AND THE STA DURING ALL STA TRAINING OPERATIONS. (KSC)
11. MAINTENANCE - STA MAINTENANCE AND SERVICING WILL BE ACCOMPLISHED BY STA PERSONNEL TDY FROM JSC. ADDITIONAL CONTINGENCY MAINTENANCE SUPPORT FROM EXISTING FACILITIES MAY BE REQUESTED. (INFO ITEM)

POC: JSC/MV/DON MCCORMICK/281 483-1267

TECH CONTACT FOR MSBLS, TACAN, AND DGPS:
JOHN KIRIAZES/NE-E1/321 861-3700
JOE REEVES/USK-116/321 861-0541

TECH CONTACT FOR VISUAL LANDING AIDS:
WAYNE MARTIN/NE-M8/321 861-3267
MIKE FESSNER/USK-309/321 861-0114

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 07/18/02
RESPONSE:
DDMS WILL REPORT STATUS OF PATRICK AFB TACAN
COB) WHEN SPECIFICALLY REQUESTED.

RESPONSE TRACKING: Z112-4 Z3623 Z4725 Z6590

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3400 - OTHER TECHNICAL SUPPORT

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 209396
ITEM NUMBER: T1DEK

RESPONDER: BART KLEINFELDT/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/18/02
RESPONSE TRACKING: Z3623 Z4721

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: KICS-109 PH-F1 PH-J
SGS-346 USK-116 USK-309

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 02/07/02
RESPONSE:

RESPONSE TRACKING: Z3623 Z4721

[PRD] DATABASE RECORD: 250708 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/17/92
INITIAL DATE: 02/02/90
ITEM NUMBER: T3K DATE LAST CHANGED: 02/13/07
SECTION: 3400 TIME LAST CHANGED: 13:16:27

REQUESTER: JSC
SUBREQUESTER: VALO92011 VALOE
TEST CODE: KSC
TRACKING NO. KING2001 L001-11 L208-3 L3625 L4717

1. DESCRIPTION: ACCESS TO KSC

PERSONNEL BADGES, AS REQUIRED, FOR STA MAINTENANCE AND FLIGHT CREW PERSONNEL TO GAIN ACCESS TO FLIGHT LINE FACILITIES AT KSC.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-PH-M1 USK-155

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/01/92
RESPONSE:
ADMINISTRATIVE INFO:
USA TRAINING, USK-155, AT 407 861-5326 PROVIDES THE COURSES NECESSARY TO QUALIFY FOR PACAS BADGE LOCATION #27 WHICH ALLOWS PERSONNEL TO ENTER THE SLF.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3400 - OTHER TECHNICAL SUPPORT

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 250708
ITEM NUMBER: T3K

RESPONSE TRACKING: Z3623 Z4730

[PRD] DATABASE RECORD: 302300 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/21/95
INITIAL DATE: 10/06/88
ITEM NUMBER: T5EX DATE LAST CHANGED: 03/22/07
SECTION: 3400 TIME LAST CHANGED: 07:46:15

REQUESTER: JSC
SUBREQUESTER: JSC/CA4 JSC/CC5
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. KING2001 L2646 L507-5 R109-75 R2712
SHAW95

1. DESCRIPTION: SHUTTLE TRAINING AIRCRAFT - EAFB

SHUTTLE TRAINING AIRCRAFT (STA) OPERATIONS ARE PLANNED AT EDWARDS AFB, CALIFORNIA, TO TRAIN ORBITER CREWS FOR ALL OPS FLIGHTS. SUPPORT REQUIRED FOR THESE ACTIVITIES AS FOLLOWS:

STA OPERATIONAL SITE REQUIREMENTS:

1. RESTRICTED AIRSPACE - THE EXISTING AIRSPACE R-2515,(DESERT ONE), AREA 1 OF R-2506 (BUCKHORN) AT EAFB IS SATISFACTORY FOR STA OPERATIONS.

2. SURVEILLANCE RADAR - REQUIRED DURING EACH TRAINING SESSION TO MAINTAIN STA SEPARATION FROM OTHER AIR TRAFFIC. (AFFTC)

3. THE MICROWAVE SCANNING BEAM LANDING SYSTEM WILL BE RE-QUIRED FOR STA TRAINING OPERATIONS AT EAFB. (DFRC).

4. TACAN - THE EXISTING EAFB TACAN IS REQUIRED TO UPDATE THE STA NAVIGATION SYSTEM. IF A TACAN IS AVAILABLE AT THE LAKEBED LANDING SITE, IT SHOULD BE IN OPERATION FOR STA FLIGHT SUPPORT. (AFFTC)

5. CRASH AND RESCUE - CRASH AND RESCUE EQUIPMENT AND PERSON-

CONTINUED

[PRD] DATABASE RECORD: 302300
ITEM NUMBER: T5EX

NEL TO BE AVAILABLE DURING ALL STA TRAINING OPERATIONS.

6. CONTROL TOWER - THE EAFB CONTROL TOWER IS REQUIRED FOR ALL STA OPERATIONS. (AFFTC)

7. TWO-WAY COMMUNICATIONS - COMMUNICATIONS ARE REQUIRED BETWEEN THE EAFB CONTROL TOWER AND THE STA AND BETWEEN EAFB APPROACH CONTROL AND THE STA DURING ALL TRAINING OPERATIONS. (AFFTC)

8. RAMP SPACE PARKING SPACE FOR TWO STA AIRCRAFT AND UP TO FOUR T-38'S WILL NORMALLY BE REQUIRED AT EAFB. PARKING SPACE FOR UP TO THREE STA AND ONE ADMINISTRATIVE G-159 AIRCRAFT MAY OCCASIONALLY BE NECESSARY.

TECHNICAL CONTACT: JSC/CA4/ROBERT HANLEY/281 244-8654

COORDINATION: JSC/CC521/KENNETH BAKER/281 244-9766

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/01/96
RESPONSE TRACKING: Z26156 Z2707 Z2718

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/10/96
RESPONSE TRACKING: Z26156 Z2712 Z7503

[PRD] DATABASE RECORD: 333605 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/21/95
INITIAL DATE: 02/02/90
ITEM NUMBER: T6E DATE LAST CHANGED: 02/13/07

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3400 - OTHER TECHNICAL SUPPORT

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 333605
ITEM NUMBER: T6E

SECTION: 3400 TIME LAST CHANGED: 13:20:20

REQUESTER: JSC
SUBREQUESTER: JSC/CA4 JSC/CC5
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. KING2001 L001-11 L3625 L507-5 R109-75
SHAW95

1. DESCRIPTION: STA MAINTENANCE SUPPORT - EAFB

EAFB IS REQUIRED TO PROVIDE CERTAIN MAINTENANCE SUPPORT EQUIPMENT. IT IS NOT NECESSARY THAT THIS EQUIPMENT BE STA DEDICATED, RATHER IT SHOULD ONLY BE AVAILABLE FOR STA USE ON A TIMELY BASIS. IT IS EXPECTED THE FOLLOWING EQUIPMENT WILL BE REQUIRED FOR STA USE UP TO TWO HOURS PER DAY:

1. AIRCRAFT TOWING TRACTOR - A MODEL NUMBER JG-40PT-9R TUG IS PREFERRED.

2. MAINTENANCE STAND - DAILY PREFLIGHT AND POSTFLIGHT INSPECTIONS REQUIRE USE OF A MAINTENANCE STAND CAPABLE OF 8 FOOT ELEVATION. A B1 OR B4 STAND WOULD BE ACCEPTABLE FOR THIS PURPOSE.

3. ELECTRICAL POWER UNIT - DAILY PREFLIGHTS REQUIRE USE OF A GROUND POWER UNIT CAPABLE OF 400 HERZ, 3 PHASE AC ELECTRICAL POWER. AN MD-3 POWER UNIT IS ACCEPTABLE.

4. FUEL SERVICE - NORMAL FUELING REQUIRES APPROXIMATELY 3000 GALLONS JET FUEL PER SORTIE. JP-8 FUEL IS PREFERRED; HOWEVER, JP-4 OR JP-5 IS ACCEPTABLE. EXPECTED SORTIES, 10/MONTH AT EAFB.

TECHNICAL CONTACT: JSC/CA4/ROBERT HANLEY/281 244-8654

COORDINATION: JSC/CC521/KENNETH BAKER/281 244-7272

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)

CONTINUED

[PRD] DATABASE RECORD: 333605
ITEM NUMBER: T6E

SUBSUPPLIER: EAFB
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/01/96
RESPONSE TRACKING: Z3623 Z7707

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3410 - OTHER TECHNICAL SUPPORT - AIRCRAFT

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD:	13397	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	LLS	APPROVAL DATE:	07/12/07
		INITIAL DATE:	06/19/91
ITEM NUMBER:	T2D	DATE LAST CHANGED:	07/12/07
SECTION:	3410	TIME LAST CHANGED:	06:42:01

REQUESTER: JSC
SUBREQUESTER: I-PH-B JSC/DM4 JSC/MG
TEST CODE: ISTRES MORON STSALL TAL
ZARAGOZA

ASSOCIATED DOC: 20029S
TRACKING NO. KING2001 L05-10-1 L06-7-3 L106-2 L3431
L4019 L507-4 L909-3 R0607-4 R0707-2
R109-74 R26188 R2622 R2635 R2664
R4306 SCRUB06 SHAW95
PRIORITY: REQUIRED
RATIONALE: REAL-TIME WEATHER REPORTING TO WEATHER CAPCOM.

1. DESCRIPTION: TAL SITE DEDICATED AIRCRAFT REQUIREMENTS

PROVIDE DEDICATED REAL-TIME RECONNAISSANCE CAPABILITY FOR WEATHER PILOT REPORTS (PIREPS). AT EACH TAL SITE BY L-24 HOURS. UPON ARRIVAL, PROVIDE A 1.5 HOUR ORIENTATION FLIGHT FOR THE TALCOM. THE DEDICATED AIRCRAFT TO BE UTILIZED AT TAL SITES MUST MEET CERTAIN EQUIPMENT AND PERFORMANCE REQUIREMENTS. THEY ARE AS FOLLOWS:

1. EQUIPMENT
   A. THE AIRCRAFT AND PILOT MUST BE INSTRUMENT FLIGHT-RATED (IFR) CERTIFIED BY THE GOVERNING AVIATION ORGANIZATION.

   B. THE FIELD OF VIEW MUST BE SUFFICIENT TO ALLOW THE FLIGHT CREW REPRESENTATIVE TO SEE AND EVALUATE LOCAL WEATHER PHENOMENA, AS WELL AS, PRECISION APPROACH PATH INDICATORS (PAPI'S), BALL-BAR, AIMPOINTS, ETC. THE REQUIREMENT IMPLIES A COCKPIT STATION SEAT, PREFERABLY IN THE FRONT OF THE AIRCRAFT.

   C. FOR INFORMATION ONLY: SEE 2700 SECTION ITEM T76DGK, DBR 010315, A COMMUNICATION LINK WHICH WILL ALLOW THE FLIGHT CREW REPRESENTATIVE ABOARD THE AIRCRAFT TO COMMUNICATE DIRECTLY WITH THE LSO AND CAPCOM POSITIONS AT THE JSC MCC IS REQUIRED. THE COMMUNICATION LINK MUST BE COMPATIBLE WITH A REMOTE KEYING

CONTINUED

[PRD] DATABASE RECORD: 13397
ITEM NUMBER: T2D

SYSTEM FOR A/G COMMUNICATIONS. DETAILED COMMUNICATIONS REQUIREMENTS WILL BE DOCUMENTED IN THE 2700 SECTION.

D. TACTICAL AIR NAVIGATION (TACAN) OR VERY HIGH FREQUENCY OMNIDIRECTIONAL RADIO RANGE (VOR)/DISTANCE MEASURING EQUIPMENT (DME) IS REQUIRED.

E. ALL SAFETY EQUIPMENT NORMALLY EXPECTED IN A COMMERCIAL FOR-HIRE AIRCRAFT IS REQUIRED.

F. A TWIN-ENGINE AIRCRAFT IS REQUIRED.

G. PROVIDE A SET OF NIGHT VISION GOGGLES (NVGs) OR OTHER SUITABLE NIGHT VISION DEVICES FOR USE BY THE TALCOM DURING NIGHT FLIGHT OPERATIONS. THESE WILL BE USED TO ASSIST IN DETERMINING CLOUD COVERAGE, CLOUD BASES/TOPS, AND TO ENHANCE SAFETY OF FLIGHT THROUGH INCREASED SITUATIONAL AWARENESS. THE NVGs WILL NOT BE WORN BY THE PILOT AT THE CONTROLS UNLESS ALL CREW MEMBERS ARE SIMILARLY TRAINED, QUALIFIED, AND EQUIPPED.

2. PERFORMANCE
   A. THE AIRCRAFT SHOULD BE ABLE TO EASILY OBTAIN 10,000 FEET ABOVE MEAN SEA LEVEL (MSL).

   B. THE AIRCRAFT TIME-TO-CLIMB TO 10,000 FEET MSL SHOULD BE NO LONGER THAN 10 MINUTES.

   C. THE AIRCRAFT SHOULD HAVE SUSTAINED LEVEL FLIGHT AIRSPEED OF AT LEAST 200 KNOTS INDICATED AIRSPEED (KIAS) AT 10,000 FEET MSL.

3. AVAILABILITY
   A. A/C IS NOT REQUIRED DURING CLEAR DAYS WHEN WEATHER IS NOT A FACTOR.

   B. WX RECONNAISSANCE FLIGHTS ARE REQUIRED AT L-6.5 HOURS AND L-1.5 HOURS FOR APPROXIMATELY 1.5 HOURS EACH FLIGHT. DEPENDING ON WEATHER CONDITIONS, THIS REQUIREMENT MAY BE EXTENDED TO

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3410 - OTHER TECHNICAL SUPPORT - AIRCRAFT

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 13397
ITEM NUMBER: T2D

L-O AT THE OPTION OF CAPCOM. AN ORIENTATION FLIGHT MAY BE REQUESTED FOR THE DAY PRIOR TO LAUNCH.

TECH CONTACT: JSC/DM4/MARTIN LINDE/281 483-1943
TIM OBRIEN/PH-L/321 861-9303

REF: FLS3350, T9D, DBR 010585

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: NOACK SEE RESPONSE RESPONSE DATE: 07/12/07
RESPONSE:
DOD WILL SUPPORT AS LONG AS RESOURCES/ASSETS ARE AVAILABLE.

RESPONSE TRACKING: Z2680 Z3469 Z4025 Z4310 Z5919
Z8006

[PRD] DATABASE RECORD: 520238 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/08/01
INITIAL DATE: 06/17/92
ITEM NUMBER: TX5DEX DATE LAST CHANGED: 05/30/07
SECTION: 3410 TIME LAST CHANGED: 10:33:22

REQUESTER: JSC DFRC
SUBREQUESTER: JSC/TM3
TEST CODE: EAFB STSALL TVPLAN

ASSOCIATED DOC: 20026S
TRACKING NO. KING2001 L206-8 L5023 L8108 R104-4
R109-74
PRIORITY: REQUIRED
RATIONALE: PHOTO SUPPORT

1. DESCRIPTION: TELEVISION HELICOPTER SUPPORT - EAFB

1. EAFB WILL ARRANGE FOR ONE HELICOPTER WITH STABILIZED CAMERA MOUNT, TO SUPPORT AIRBORNE TELEVISION REQUIREMENTS FOR ALL SHUTTLE LANDINGS

CONTINUED

[PRD] DATABASE RECORD: 520238
ITEM NUMBER: TX5DEX

AT EAFB, IF SUFFICIENT NOTIFICATION IS GIVEN.

REF: LLS 2805 ITEM KTX68EKX DBR 518079

2. TELEVISION HELICOPTER SUPPORT WILL BE PROVIDED FOR SHUTTLE TRAINING AND SIMULATIONS ON AN AS-REQUIRED BASIS.

3. DFRC WILL PROVIDE THE SEAT, TELEVISION CAMERA, TRANSMITTER KIT, TECHNICIAN AND CAMERA OPERATOR.

4. DFRC WILL ALSO PROVIDE (TRANSMITTER KIT) ADDITIONAL VHF-AM RADIO ON THE HELICOPTER TO SUPPORT COMMUNICATIONS WITH DFRC TELEVISION CONTROL SIMULTANEOUSLY WITH VHF-AM COMMUNICATION FOR AIR OPERATIONS.

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 06/08/01
RESPONSE TRACKING: Z8134

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 06/08/01
RESPONSE TRACKING: Z4705 Z8134

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/11/01
RESPONSE TRACKING: Z104-3 Z5044 Z8134

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3421 - PROTECTIONS FROM EMITTING SYSTEMS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 517452 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/05/91
INITIAL DATE: 11/05/91
ITEM NUMBER: T1EK DATE LAST CHANGED: 06/06/07
SECTION: 3421 TIME LAST CHANGED: 08:49:09

REQUESTER: JSC
SUBREQUESTER: VALO92011 VALOE
TEST CODE: STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 L05-8-2 L111-6 L2943 L4412
L902-8 R0508-1 R109-73

1. DESCRIPTION: MAX ELECTRIC FIELD FOR SHUTTLE/PAYLOADS

THE ELECTRIC FIELD LIMITS FOR SHUTTLE AND ITS PAYLOADS FOR THE PERIOD UP TO LAUNCH MINUS 1 DAY ARE AS FOLLOWS: MAXIMUM ER/KSC EXTERNAL ELECTRIC FIELD ENVIRONMENT MUST BE BELOW 10 VOLTS/METER FROM 10 MHZ TO 40 GHZ. 10 V/M IS EQUAL TO 140 DBUV/M.

THESE LIMITS DO NOT APPLY TO AIRCRAFT OR SHIPPING TRANSITING THE AREA OR WHEN CONTROLS WILL BE LIFTED DUE TO THE NEED TO TRACK DEBRIS FROM A FLIGHT VEHICLE MISHAP.

REF. FLS SECTION 3421, ITEM T1EGX, DBR 517452

TECH CONTACT: KSC/J.COWRAS/IT-D2-F/321 867-3436
MSFC/EI24/4708/MATTHEW M. MCGRATH/256 544-3051

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/09/05
RESPONSE TRACKING: Z0511-1 Z2984

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 11/05/91
RESPONSE:
CONTROLS ARE IN PLACE TO LIMIT ELECTRIC FIELD ENVIRONMENT AT

CONTINUED

[PRD] DATABASE RECORD: 517452
ITEM NUMBER: T1EK

SHUTTLE/PAYLOAD GROUND FACILITIES. THE PROBABILITY OF ELECTRIC FIELDS GREATER THAN 10 V/M IS VERY LOW BUT POSSIBLE. TECHNICAL OPERATING REPORT TOR-0084(4338-42)-1 REISSUE C "RADIO FREQUENCY ENVIRONMENT, EASTERN LAUNCH SITE" DELINEATES THE RF ENVIRONMENT AND CONTROL PROCEDURES. LIMITED REAL TIME MONITORING OF THE RF ENVIRONMENT CAN BE PROVIDED ON REQUEST.

RADARS LOCATED ON KSC AND THE ER ARE CAPABLE OF PRODUCING LEVELS WHICH EXCEED 10 V/M. CONTROLS ARE IN PLACE TO LIMIT ELECTRIC FIELDS PRODUCED AT SHUTTLE/PAYLOAD FACILITIES BY RADARS ON KSC, CCAFS, AND PATRICK AFB TO LESS THAN 1 V/M UNDER NORMAL OPERATING CONDITIONS. UNDER CERTAIN OPERATIONAL CONDITIONS THESE CONTROLS WILL BE LIFTED. ALSO THESE CONTROLS DO NOT APPLY TO AIRCRAFT OR SHIPPING TRANSISTING THE AREA. AS SUCH, STRICT COMPLIANCE WITH THE REQUIREMENT CAN NOT BE GUARANTEED.

RESPONSE TRACKING: Z26145 Z2984

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3440 - OTHER TECHNICAL SUPPORT - TRAINING

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 217944 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/19/89
INITIAL DATE: 09/19/89
ITEM NUMBER: K4X DATE LAST CHANGED: 03/22/07
SECTION: 3440 TIME LAST CHANGED: 07:47:23

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 L3411 R109-72 R2651
SCRUB06
PRIORITY: REQUIRED
RATIONALE: HAZARDOUS AREA TRAINING

1. LOCATION: DFRC
2. NUMBER: TBD
3. TYPE/SPECIALTY: AREA ACCESS TRAINING (AT DFRC)
4. DATE/DURATION:
A. ARRIVE:
B. DEPART:
5. PURPOSE/REMARKS: PROVIDE HAZARDOUS AREA ACCESS TRAINING PER THE KSC OFF-SITE TRAINING PLAN FOR ALL PERSONNEL AT DFRC, EXCEPT KSC AND DOD AND THEIR CONTRACTORS, WHO REQUIRE UNESCORTED ACCESS TO THE SHUTTLE PROCESSING AREA. KSC WILL PROVIDE TRAINING MATERIALS.

TECH CONTACT: KSC/DEAN SCHAAF/PH-L/321 861-9311
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/25/89
RESPONSE TRACKING: Z3453

[PRD] DATABASE RECORD: 222839 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/15/89
INITIAL DATE: 09/15/89
ITEM NUMBER: K5E DATE LAST CHANGED: 12/13/06
SECTION: 3440 TIME LAST CHANGED: 09:30:23

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3440 - OTHER TECHNICAL SUPPORT - TRAINING

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 222839
ITEM NUMBER: K5E

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 L3404 R109-72 SCRUB06
PRIORITY: REQUIRED
RATIONALE: HAZARDOUS AREA TRAINING

1. LOCATION: EAFB
2. NUMBER: TBD
3. TYPE/SPECIALTY: AREA ACCESS TRAINING(AT EAFB)
4. DATE/DURATION:
 A. ARRIVE:
 B. DEPART:
5. PURPOSE/REMARKS: PROVIDE HAZARDOUS AREA ACCESS TRAINING PER THE KSC OFF-SITE TRAINING PLAN FOR DOD AND DOD CONTRACTOR PERSONNEL WHO REQUIRE UNESCORTED ACCESS TO THE SHUTTLE PROCESSING AREA AT DFRC. KSC WILL PROVIDE TRAINING MATERIALS.

TECH CONTACT: KSC/DEAN SCHAAF/PH-L/321 861-9311
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: MIKE KUTA/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/13/89
RESPONSE TRACKING: Z3484

[PRD] DATABASE RECORD: 226184 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/10/89
INITIAL DATE: 10/10/89
ITEM NUMBER: K6Z DATE LAST CHANGED: 12/13/06
SECTION: 3440 TIME LAST CHANGED: 09:36:43

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL WSSH

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3440 - OTHER TECHNICAL SUPPORT - TRAINING

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 226184
ITEM NUMBER: K6Z

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 L3439 R109-72 SCRUB06
PRIORITY: REQUIRED
RATIONALE: HAZARDOUS AREA TRAINING

1. LOCATION: WSTF
2. NUMBER: TBD
3. TYPE/SPECIALTY: AREA ACCESS TRAINING
4. DATE/DURATION:
 A. ARRIVE:
 B. DEPART:
5. PURPOSE/REMARKS: PROVIDE HAZARDOUS AREA ACCESS TRAINING FOR LOCAL PERSONNEL WHO SUPPORT GROUND OPERATIONS FOLLOWING AN ORBITER LANDING AT WSSH. PERSONNEL INCLUDE FIRE, MEDICAL AND SECURITY SUPPORT ELEMENTS. KSC WILL PROVIDE TRAINING MATERIALS.

TECH CONTACT: KSC/LOUIE GARCIA/PH-L/321 861-6196
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/10/89
RESPONSE TRACKING: Z26146 Z3479

[PRD] DATABASE RECORD: 357571 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/01/89
INITIAL DATE: 09/01/89
ITEM NUMBER: K7D DATE LAST CHANGED: 05/30/07
SECTION: 3440 TIME LAST CHANGED: 10:33:21

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DODALS STSALL
TRACKING NO. DB98 KING2001 R109-72
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR DOD ALS LANDING SUPPORT.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 3440 - OTHER TECHNICAL SUPPORT - TRAINING

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 357571
ITEM NUMBER: K7D

1. DESCRIPTION: PROVIDE PERSONNEL FROM EACH DOD ALS TO BE TRAINED IN ORBITER POST-LANDING OPERATIONS INCLUDING HAZARD DETECTION AND ASSESSMENT AND FLIGHT CREW EGRESS.

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/01/89
RESPONSE TRACKING: Z3434

[PRD] DATABASE RECORD: 21100 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/14/93
INITIAL DATE: 03/20/90
ITEM NUMBER: E8GT DATE LAST CHANGED: 11/16/06
SECTION: 3440 TIME LAST CHANGED: 07:13:16

REQUESTER: ER
TEST CODE: STSALL
TRACKING NO. GSFCREV06 KING2001 L3119 L910-8 R109-72 R6001

1. DESCRIPTION: JSC/FCO RANGE SAFETY TRAINING

ER RANGE SAFETY REQUIRES JSC SIMULATED TELEMETRY AND C-BAND TRACKING DATA BE TRANSMITTED TO THE ER/CCC IN CONJUNCTION WITH FDO ABORT SIMULATIONS AT JSC.

1. THE RANGE SAFETY TELEMETRY DATA WILL BE PROCESSED AT MILA AND TRANSMITTED TO THE ER/CCC FOR PROCESSING AND DISPLAY ON THE RSDS AND RSTDS.

2. THE C-BAND TRACKING DATA WILL BE PROCESSED BY THE ER/CCC FOR DISPLAY ON THE RSDS.

3. VOICE COMMUNICATIONS REQUIREMENTS INCLUDE THE FDO PRIVATE LINE, FCO PRIME NET, AND FD NET FOR REALTIME COORDINATION WITH JSC/FD AND FDO. LLTDS COORDINATION AND GSFC ODF NET FOR REALTIME COORDINATION BETWEEN THE ER/CCC AND JSC/GSFC/MILA.

CONTINUED

[PRD] DATABASE RECORD: 21100
ITEM NUMBER: E8GT

4. FOR ALL FDO ABORT SIMUALTIONS, COMM AND SELECTED DATA (SIMS RUNS) WILL BE RECORDED AT CCAS FOR USE AS FUTURE TRAINING AIDS BY THE FCO'S.

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/14/93
RESPONSE TRACKING: Z3141 Z6003

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/14/93
RESPONSE TRACKING: Z3141 Z6003

[PRD] DATABASE RECORD: 21095 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/20/90
INITIAL DATE: 03/20/90
ITEM NUMBER: T9EG DATE LAST CHANGED: 11/16/06
SECTION: 3440 TIME LAST CHANGED: 07:13:16

REQUESTER: JSC
SUBREQUESTER: VALO92011 VALOE
TEST CODE: STSALL
TRACKING NO. GSFCREV06 KING2001 L3119 L910-8 R109-72

1. DESCRIPTION: JSC/FCO JOINT INTEGRATED SIMULATIONS

JSC REQUIRES THE FCO TO PARTICIPATE IN JOINT INTEGRATED SIMS (JIS) TO SUPPORT RANGE SAFETY TRAINING USING JSC SIMULATED TELEMETRY AND TRACKING DATA. JSC SIMULATOR DATA WILL BE TRANSMITTED TO ER/CCC VIA GSFC/MILA FOR TLM DATA AND THE 7.2 KB/S LLTDS PRIME OR B/U CIRCUIT DIRECT TO ER/CCC FOR LLTDS DATA. ER/CCC WILL PROCESS/RECORD JIS DATA FOR USE BY THE FCO FOR SUBSEQUENT TRAINING OF THE RANGE SAFETY NETWORK.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)

CONTINUED

[PRD] DATABASE RECORD: 21095
ITEM NUMBER: T9EG

SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/21/90
RESPONSE TRACKING: Z3141

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: I-MILA
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/20/90
RESPONSE TRACKING: Z3141

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 4100 - DATA PROCESSING SPECIFICATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD:	10350	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	LLS	APPROVAL DATE:	03/05/96
		INITIAL DATE:	09/17/87
ITEM NUMBER:	H6GK	DATE LAST CHANGED:	11/16/06
SECTION:	4100	TIME LAST CHANGED:	07:13:11

REQUESTER: MSFC
SUBREQUESTER: MS168 MS202
TEST CODE: KSC MSFC S61E11 STSALL

TRACKING NO. KING2001 L7601 ML003-90 R109-46 R2627
R2631 R3103 R6557 R7106
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: KSC-MSFC TRANSMISSION SYSTEM

MSFC REQUIRES 3-1.54MB SYSTEMS FOR PROCESSING, MULTIPLEXING AND AND SUBSEQUENT TRANSMISSION OF THE FOLLOWING DATA CIRCUITS. ALTERNATE ROUTING CAPABILITY IS REQUIRED.

NONSECURE CIRCUITS:

1. SDS
2. SHUTTLE VOICE (22 CKTS)
3. DIAGNOSTICS (BL)
4. OD (BL)
5. ME-1/EIU
6. ME-2/EIU
7. ME-3/EIU
8. VIDEO SWITCH

THE FOLLOWING SIGNALS SHOULD BE TRANSMITTED DURING:
(1) STACKED VEHICLE TESTING (AS REQUIRED) (2) COUNTDOWN (3) ASCENT:
OD - FROM KSC LCC TO MSFC HOSC
SSME - FROM KSC LCC TO MSFC HOSC
VOICE - FROM KSC LCC TO MSFC HOSC

THE FOLLOWING SIGNALS SHOULD BE TRANSMITTED WITH CAPABILITY TO SWITCH TO ALTERNATE LINK:
VIDEO SWITCH - SWITCH LOCATED AT VIDEO SWITCH TERMINAL.

TECH CONTACT: MSFC/PHILIP CAUTHEN/256 544-4204

CONTINUED

[PRD] DATABASE RECORD: 10350
ITEM NUMBER: H6GK

NOTE: FOR MORE COMM. CIRCUIT INFO SEE SECT 2700, ITEM H17GK DBR 227709.

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 03/05/96
RESPONSE:
THE CAPABILITY FOR ALTERNATE ROUTING IS CONSTRAINED BY THE
NISN BUDGETS AND IS LIMITED AT THE CHANNEL LEVEL, TO THE
LOADING OF THE INDIVIDUAL T1s AT ANY GIVEN TIME. CHANNELIZATION
OF THE CIRCUITS WILL BE DECIDED BY MSFC AND KSC.

RESPONSE TRACKING: Z2647 Z3120 Z3145 Z5916 Z6577
Z7302 Z7601

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: CCMS I-IT-D2 USK-607

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 11/26/96
RESPONSE: LPS COORD NOW ON OIS.

[PRD] DATABASE RECORD: 16272 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/20/98
INITIAL DATE: 12/21/88
ITEM NUMBER: K7E DATE LAST CHANGED: 06/06/07
SECTION: 4100 TIME LAST CHANGED: 08:51:09

REQUESTER: KSC
SUBREQUESTER: JJ-4 VAL92007 VALE
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20007S 20014S 20017S
TRACKING NO. KING2001 L2659 L4213 L5206 L9101

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 4100 - DATA PROCESSING SPECIFICATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 16272
ITEM NUMBER: K7E

L9502 MK98 R109-46 R2719 R2929
PRIORITY: REQUIRED
RATIONALE: RUN JJ HP-9000

1. DESCRIPTION: RANGE SAFETY, ROCKET EXHAUST EFFLUENT DIFFUSION MODEL (REEDM)

PROVIDE WEATHER INFORMATION FOR THE OPERATION OF REEDM FOR SHUTTLE LAUNCH CLOUD DEPOSITION MODELING AT L-24 HOURS, L-5.5 HOURS, L-3.5 HOURS, L-2.0 HOURS AND L-0.5 HOURS USING NEAR REAL-TIME WEATHER DATA FROM UPPER AIR (RAWINSONDE) OBSERVATIONS. PROVIDE SUPPORT TO THE CLOUD PREDICTION BRIEFING AS SPECIFIED IN THE LAUNCH COUNTDOWN, AND VIDEO DISPLAY THRU CCTV CHANNEL 176 FROM THE TOXIC HAZARD AND BLAST CONTROL CENTER (THBCC).

COORDINATION: MIKE GAWEL/321 853-8118

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/20/98
RESPONSE TRACKING: Z26204 Z2713 Z2924 Z4506 Z5205
Z9105 Z9510

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 4200 - DATA DISPOSITION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD:	233684	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	LLS	APPROVAL DATE:	02/12/97
		INITIAL DATE:	08/26/88
ITEM NUMBER:	G2EHKTX	DATE LAST CHANGED:	03/22/07
SECTION:	4200	TIME LAST CHANGED:	07:48:46

REQUESTER: GSFC
SUBREQUESTER: GSFC/562 VALO92001 VALOE
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. KING2001 L2646 MK98 R109-20 R2640 R8301
PRIORITY: MANDATORY
RATIONALE: COORDINATION, RECEIPT, PROCESSING, AND DISTRIBUTION OF DATA ITEMS.

1. DESCRIPTION: GSFC DATA HANDLING, GENERAL

THE GSFC SHUTTLE DATA MANAGER, CODE 513.3 IS RESPONSIBLE FOR THE COORDINATION, RECEIPT, PROCESSING AND DISTRIBUTION OF ALL DATA ITEMS GENERATED BY THE STDN STATIONS AFFILIATED WITH THE NETWORK.

ELEMENTS REQUESTING SHIPMENT OF ANY DATA REQUIREMENTS SPECIFIED IN THE PRD MUST SUBMIT A REQUEST TO THE GSFC SHUTTLE DATA MANAGER.

HAL HARRIS
CRC SHUTTLE DATA COORDINATOR
GODDARD SPACE FLIGHT CENTER
GREENBELT, MARYLAND 20771-0001
301 286-4949

DATA RECIPIENTS WILL ACKNOWLEDGE RECEIPT OF DATA SHIPMENTS BY RETURNING TO THE GSFC CODE 513.3 DATA MANAGER ONE COPY OF THE DATA LISTING RECEIVED WITH EACH SHIPMENT.

CODE 513.3 WILL BE RESPONSIBLE FOR THE RETENTION OF ALL ORIGINAL TAPES, SHIPPED TO GSFC, RECORDED BY THE STDN STATIONS AND STATIONS AFFILIATED WITH THE NETWORK FOR A SPECIFIC MISSION AND/OR PROJECT. ORIGINAL TAPES WILL BE RETAINED IN ARCHIVES FOR A MAXIMUM OF ONE YEAR.

REFERENCE: FLT, SECTION 4200, ITEM G1, DBR 260656

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)

CONTINUED

[PRD] DATABASE RECORD: 233684
ITEM NUMBER: G2EHKTX

SUBSUPPLIER: EAFB ER USAKA
WR WSMR
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/02/99
RESPONSE:

RESPONSE TRACKING: Z26156 Z8311 Z9313

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/19/97
RESPONSE TRACKING: Z3008 Z8308

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 USK-614

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/19/97
RESPONSE TRACKING: Z26156 Z3008 Z8308

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/19/97
RESPONSE TRACKING: Z26225 Z8308

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/19/97
RESPONSE TRACKING: Z26156 Z8308

[PRD] DATABASE RECORD: 245384 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/12/97
INITIAL DATE: 08/26/88
ITEM NUMBER: G3HKTX DATE LAST CHANGED: 03/22/07

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 4200 - DATA DISPOSITION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 245384
ITEM NUMBER: G3HKTX

SECTION: 4200 TIME LAST CHANGED: 07:47:57

REQUESTER: GSFC
SUBREQUESTER: GSFC/562
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. KING2001 L2646 R109-20 R8301

1. DESCRIPTION: POINT-OF-CONTACT

THE KENNEDY SPACE CENTER AND OTHER PARTICIPATING CENTERS
ARE REQUESTED TO IDENTIFY AND PROVIDE IN THE PRD POINTS-OF-CONTACTS
TO WHICH DATA HANDLING QUESTIONS AND PROBLEMS MAY BE DIRECTED FOR
RESOLUTION.

REFERENCE: FLT ITEM G2EHKTX SECT 4200 DBR 287663

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/19/97

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 USK-614

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/19/97
RESPONSE TRACKING: Z26156 Z3042 Z4736 Z8308

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/19/97

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/18/97

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 4200 - DATA DISPOSITION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 245384
ITEM NUMBER: G3HKTX

[PRD] DATABASE RECORD: 336108 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/09/97
INITIAL DATE: 06/13/89
ITEM NUMBER: T5ET DATE LAST CHANGED: 06/06/07
SECTION: 4200 TIME LAST CHANGED: 08:52:26

REQUESTER: JSC
TEST CODE: INFO STSALL
TRACKING NO. KING2001 L8108 L906-3 R109-20 R2849

1. DESCRIPTION: POINT-OF-CONTACT (JSC DATA REQUESTS)

THE FOLLOWING JSC POINT-OF-CONTACT WILL PROVIDE
ASSISTANCE IN PROBLEM RESOLUTION REGARDING DISPOSITION
OF DATA COLLECTED AT JSC'S REQUEST:

1. ALL DATA EXCEPT SONIC BOOM:
D. HARRISON/WALT GAYLOR
JSC/VF2
HOUSTON, TEXAS 77058
281 483-6353

2. SONIC BOOM DATA:
J. STANLEY
JSC/SN5
HOUSTON, TEXAS 77058
281 483-5315

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: BART KLEINFELDT/321 853-8650

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/16/97
RESPONSE TRACKING: Z8206

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 4200 - DATA DISPOSITION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 336108
ITEM NUMBER: T5ET

RESPONSE TRACKING: Z2842 Z8134

[PRD] DATABASE RECORD: 281891 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/30/00
INITIAL DATE: 07/26/89
ITEM NUMBER: T7T DATE LAST CHANGED: 06/06/07
SECTION: 4200 TIME LAST CHANGED: 08:52:39

REQUESTER: JSC
SUBREQUESTER: JSC/B-NS
TEST CODE: STSALL
TRACKING NO. A106-1 KING2001 L2733 L2834 L8205
L907-7 R109-20 R2641

1. DESCRIPTION: MAILING ADDRESS FOR PHOTOGRAPHIC ITEMS:

1. ALL DATA EXCEPT BNA PRINTS: MICHAEL MCGUYER/GC
JOHNSON SPACE CENTER/NASA
HOUSTON, TEXAS 77058
281 483-7734

2. BNA PRINTS:

BOEING NASA SYSTEMS
13100 SPACE CENTER CENTER BLVD.
HOUSTON, TX 77059-3556
ATTN: GAIL HARGROVE, HS4-40

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/30/00
RESPONSE TRACKING: Z2753 Z28109 Z8208

[PRD] DATABASE RECORD: 302745 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/09/97
INITIAL DATE: 03/30/90
ITEM NUMBER: Y8HKTY DATE LAST CHANGED: 11/20/06
SECTION: 4200 TIME LAST CHANGED: 13:10:58

REQUESTER: NASA HQ

CONTINUED

[PRD] DATABASE RECORD: 302745
ITEM NUMBER: Y8HKTY

TEST CODE: INFO STSALL
TRACKING NO. KING2001 L3127 L5103 L8108 R109-20

1. DESCRIPTION: MAILING ADDRESS FOR PUBLIC AFFAIRS

PHOTOGRAPHIC ITEMS:

NASA HEADQUARTERS PMD
DEBORAH RIVERA
300 E STREET, S.W.
WASHINGTON, DC 20546
202 358-1743

JOHNSON SPACE CENTERS, NASA
PUBLIC INFORMATION BRANCH, AP3
ATTN: BILLIE DEASON
HOUSTON, TX 77058

TOM ROST ATTN: BOBBY McKEE
CN33
MARSHALL SPACE FLIGHT CENTER
HUNTSVILLE, AL 35812

(STILL COVERAGE ONLY)

WILLIAM JOHNSON
PUBLIC AFFAIRS OFFICE
NASA, XA-E1
KENNEDY SPACE CENTER, FL 32899
321 867-2468

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 4200 - DATA DISPOSITION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 302745
ITEM NUMBER: Y8HKTY

RESPONSE TRACKING: Z8134

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: XA-E1

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z8134

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z8134

SUPPLIER: NASA HQ AGENCY: NASA/HQ (NASA HEADQUARTERS (WASHINGTON))

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97

[PRD] DATABASE RECORD: 305319 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/09/97
INITIAL DATE: 04/13/89
ITEM NUMBER: K10EGHKTXYZ DATE LAST CHANGED: 03/22/07
SECTION: 4200 TIME LAST CHANGED: 07:49:25

REQUESTER: KSC
SUBREQUESTER: IT-D2 USK-610
TEST CODE: EAFB INFO KSC STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 L3018 L8108 R109-20
PRIORITY: REQUIRED
RATIONALE: INFORMATION

1. DESCRIPTION: POINT-OF-CONTACT (KSC DATA STATUS)

POINT-OF-CONTACT TO WHICH CALLS CONCERNING DATA PICKUP SHIPMENTS,
AND STATUS SHOULD BE DIRECTED TO:

TAPE STROAGE & RETRIEVAL POC:

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 4200 - DATA DISPOSITION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 305319
ITEM NUMBER: K10EGHKTXYZ

JERI SHAW OR SARAH SHOCKLEY
KSC MAIL: USK-610, COMPLEX 19
PHONE: 321 853-9451

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z3028 Z8134

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z3028 Z8134

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)
RESPONDER: MIKE BLUM/256 544-5102

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z3028 Z8134

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 USK-614

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z3028 Z8134

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z3028 Z8134

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 4200 - DATA DISPOSITION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 305319
ITEM NUMBER: K10EGHKTXYZ

RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z3028 Z8134

SUPPLIER: NASA HQ AGENCY: NASA/HQ (NASA HEADQUARTERS (WASHINGTON))

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z3028 Z8134

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z3028 Z8134

[PRD] DATABASE RECORD: 290983 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/09/97
INITIAL DATE: 02/14/90
ITEM NUMBER: H13DEGKTXZ DATE LAST CHANGED: 05/30/07
SECTION: 4200 TIME LAST CHANGED: 10:33:17

REQUESTER: MSFC
TEST CODE: EAFB INFO STSALL
TRACKING NO. KING2001 L8108 ML003-90 R109-20 R3103

1. DESCRIPTION: POINT-OF-CONTACT (MSFC DATA REQUESTS)

THE MSFC POINT-OF-CONTACT CONCERNING DATA REQUIREMENTS,
HANDLING, DISPOSITION AND PROBLEM RESOLUTION IS THE FOLLOWING:
PHILIP CAUTHEN
EO60
NASA/MSFC, AL 35812
PHONE 256 544-4204

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97

CONTINUED

[PRD] DATABASE RECORD: 290983
ITEM NUMBER: H13DEGKTXZ

RESPONSE TRACKING: Z8134

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z8134

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z8134

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE:

RESPONSE TRACKING: Z8134

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z8134

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z8134

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 4200 - DATA DISPOSITION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 290983
ITEM NUMBER: H13DEGKTXZ

RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z8134

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5100A - PERSONNEL ASSIGNMENT SCHEDULES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 176021 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/30/90
INITIAL DATE: 01/30/90
ITEM NUMBER: T1K DATE LAST CHANGED: 12/13/06
SECTION: 5100A TIME LAST CHANGED: 09:39:34

REQUESTER: JSC
SUBREQUESTER: JSC/CA7
TEST CODE: KSC STSALL
TRACKING NO. KING2001 L3618 R109-50
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: SECRETARIAL SUPPORT

JSC REQUIRES SECRETARIAL SUPPORT AT KSC ON A FULL TIME BASIS AND IN SUPPORT OF THE JSC FLIGHT OPERATIONS VEHICLE INTEGRATION TEST TEAM.

TECH CONTACT: JSC/CB/WILLIAM MCARTHUR/281 483-8936

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: PH-M USK-310

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/30/90
RESPONSE TRACKING: Z3615

[PRD] DATABASE RECORD: 346284 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/08/90
INITIAL DATE: 06/08/90
ITEM NUMBER: T3E DATE LAST CHANGED: 12/13/06
SECTION: 5100A TIME LAST CHANGED: 09:48:26

REQUESTER: JSC
SUBREQUESTER: JSC/CC VALO92011 VALOE
TEST CODE: PAFB STSALL
TRACKING NO. KING2001 L005-15 L3549 L3556 L507-5
R109-50 R2932
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: BASE SUPPORT AT PATRICK AFB

ROUTINE T-38 PREFLIGHT SERVICING AND MINOR MAINTENANCE IS

CONTINUED

[PRD] DATABASE RECORD: 346284
ITEM NUMBER: T3E

REQUESTED TO BE COMPLETED BY THE PAFB TRANSIENT AIRCRAFT LINE. HEAVY T-38 FLIGHT OPERATIONS OR MAJOR MAINTENANCE WILL BE SUPPORTED BY FCOD MAINTENANCE DETACHMENTS. NASA T-38's REQUIRE NO SPECIAL GSE OVER A STANDARD USAF T-38A. HEAVY T-38 FLIGHT OPERATIONS OUT OF PAFB WILL OCCUR INFREQUENTLY.

NOTE: POINT-OF-CONTACT FOR FCOD FACILITIES IS THE FLIGHT OPS BRANCH/AIRCRAFT OPS DIVISION/ 281 244-7256.

REF: LLS SECT. 5600, ITEM T51EK, DBR 338691

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/21/91
RESPONSE TRACKING: Z2950 Z3562 Z4432

[PRD] DATABASE RECORD: 357335 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/20/93
INITIAL DATE: 05/27/88
ITEM NUMBER: K4X DATE LAST CHANGED: 03/22/07
SECTION: 5100A TIME LAST CHANGED: 07:50:50

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB S51E08 STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 L5601 L5716 R109-20
R26165 R2809 SCRUB06
PRIORITY: MANDATORY
RATIONALE: MINI CONVOY LANDING SUPPORT AT EAFB.

1. DESCRIPTION: DRYDEN SHUTTLE CONVOY SUPPORT

THE DFRC ABORT-ONCE-AROUND (AOA)/EARLY LANDING CONVOY, (HEREAFTER REFERRED TO AS THE MINI CONVOY), IS MANNED BY NASA DFRC, NASA KSC, RESIDENT SPC AND KSC TDY CONTRACTOR PERSONNEL. THE MINI CONVOY WILL

CONTINUED

[PRD] DATABASE RECORD: 357335
ITEM NUMBER: K4X

PERFORM A HAZARDOUS ASSESSMENT, ASSIST WITH CREW EGRESS, INITIATE PURGE WITHIN 90 MINUTES, INSTALL THE PRSD CRYO VENTING PACKAGE AND TOW THE ORBITER TO AREA "A" WHERE IT WILL BE MONITORED UNTIL A KSC TURNAROUND TEAM ARRIVES.

ADDITIONALLY, THE MINI CONVOY WILL HAVE A CONTINGENCY CAPABILITY TO INSTALL A UNIVERSAL THRUSTER PLUG ASSEMBLY (UPTA) IN A LEAKING RCS THRUSTER.

IT IS REQUESTED THAT NASA DRYDEN PROVIDE THE FOLLOWING PERSONNEL FOR MINI CONVOY OPERATIONS:

CONVOY COMMANDER - NCC
SHUTTLE AND FLIGHT SUPPORT COORDINATOR - EASC
COMMUNICATION VAN TECH (2) - NASA 25
ASTRONAUT VAN TECH (2)
CONDOR OPERATOR (1)
SERVICE TRUCK - DFRC CONTRACTOR (2)
TV - SEE TV PLAN
PHOTO - SEE PHOTO PLAN
DIESEL TRUCK OPERATOR (1)
SHUTTLE BUS OPERATOR (1)

SPC RESIDENT AND TDY PERSONNEL WILL PERFORM THE FOLLOWING TASKS:

USA OPERATIONS TEST DIRECTOR - NASA 25
USA TECH SUPERVISOR - OMD
USA QUALITY CONTROL (2) - NASA 25 & RUNWAY COVERAGE
USA SUPPORT TEST MANAGER (STM)
USA ENGINEER
USA SAFETY (1) - SAFETY ASSESSMENT
USA TECH (2) - VAPOR DISPERSION UNIT
USA TECH (2) - COOL STAIR TRUCK OPERATOR & BUDDY (ALSO BOOM OPERATOR)
USA TECH (1) - COOL UNIT TRACTOR OPERATOR
USA TECH (2) - PURGE STAIR TRUCK OPERATOR & BUDDY (ALSO BOOM OPERATOR)
USA TECH (1) - PURGE UNIT TRACTOR OPERATOR
USA TECH (1) - PURGE UNIT (534) OPERATOR
USA TECH (1) - SAFETY ASSESSMENT
USA TECH (2) - ORBITER ACCESS VEHICLE TECH

CONTINUED

[PRD] DATABASE RECORD: 357335
ITEM NUMBER: K4X

USA TECH (1) - TOW TUG OPERATOR
JBOSC LIFE SUPPORT TECH (2) - SCAPE 1 DRIVER AND BUDDY
JBOSC PROPELLANTS TECH & SUPERVISOR - SCAPE BASE DRIVER & BUDDY
JBOSC PROPELLANTS TECH - SCAPE BASE GENERATOR DRIVER

IF FOR ANY REASON (SICKNESS, VACATION, ABSENCE OF TRAINED PERSONNEL) THAT A MINI CONVOY POSITION CAN NOT BE ADEQUATELY FILLED, NASA KSC OR SPC KSC WILL SEND PERSONNEL, WITHIN 24 HOURS, TO PERFORM THE TASK.

NASA KSC WILL CONTINUE TO SEND A GROUND OPERATIONS MANAGER (GOM) AND NASA SAFETY PERSONNEL TDY TO DFRC TO SUPPORT THE MINI CONVOY.

MISSION UNIQUE PAYLOAD REQUIREMENTS MAY REQUIRE ADDITIONAL TDY KSC NASA AND SPC PAYLOADS/FLIGHT CREW SYSTEMS PERSONNEL TO SUPPORT THE MINI CONVOY.

IT IS REQUESTED THAT THE DRYDEN RUNWAY MEASUREMENTS TEAM RETRIEVE THE DRAG CHUTE IN THE EVENT THAT THE DEBRIS TEAM IS NOT PRESENT.

IT IS REQUESTED THAT NASA DRYDEN PROVIDE THE FOLLOWING PERSONNEL FOR FULL-UP (EOM) CONVOY OPERATIONS:

SHUTTLE AND FLIGHT SUPPORT COORDINATOR - EASC
COMMUNICATION VAN TECH (2) - NASA 25
ASTRONAUT VAN TECH (2)
SERVICE TRUCK TECH (2)
PHOTO-1 - SEE PHOTO PLAN
TV-2 - SEE TV PLAN
DIESEL TRUCK OPERATOR (1)
CONDOR OPERATOR (1)
SHUTTLE BUS OPERATOR (1)

PERSONNEL SELECTED FOR THE ABOVE POSITIONS MUST BE CERTIFIED IN ACCORDANCE WITH KSC SHUTTLE OPERATIONS INSTRUCTIONS.

TECHNICAL CONTACT: KSC/DEAN SCHAAF/PH-L/321 861-9311
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)

CONTINUED

[PRD] DATABASE RECORD: 357335
ITEM NUMBER: K4X

SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/20/93
RESPONSE TRACKING: Z2656 Z5723

[PRD] DATABASE RECORD: 8939 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/13/02
INITIAL DATE: 03/22/88
ITEM NUMBER: T5X DATE LAST CHANGED: 03/22/07
SECTION: 5100A TIME LAST CHANGED: 07:51:20

REQUESTER: JSC
SUBREQUESTER: JSC/MO3
TEST CODE: EAFB STSALL TVPLAN

ASSOCIATED DOC: 20026S
TRACKING NO. L06-10-1 L411-1 R0610-2 R109-50 R26142
R2809 R6309
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: TELEVISION PERSONNEL (AMES-DRYDEN)
LLS2800 ITEM T4X DBR 014646 AND NSTS 07700, VOL. V, SECTION 7.0
SPECIFY THE REQUIREMENT FOR DRYDEN TO PROVIDE NASA
SELECT TELEVISION OF SHUTTLE LANDINGS AT EDWARDS AFB.

DRYDEN SHALL PROVIDE THE SKILLED PERSONNEL NEEDED TO
PROVIDE THE TELEVISION SUPPORT.

THE FOLLOWING IS A LIST OF POSITIONS THAT MUST BE STAFFED
WITH SKILLED TELEVISION PERSONNEL FOR END-OF-MISSION LANDING.
IT IS EXPECTED THAT THESE POSITIONS WILL BE FILLED WITH A MIX OF
NASA EMPLOYEES, FULL-TIME CONTRACTOR EMPLOYEES, AND TEMPORARY
CONTRACTOR EMPLOYEES. TELEVISION CONTRACTOR FULL-TIME
EMPLOYEES WHO NORMALLY SUPPORT OTHER PROGRAMS WILL SUPPORT
SHUTTLE ON LANDING DAY.

TELEVISION CONTROL ROOM
- PRODUCER/DIRECTOR

LONG RANGE OPTICS
- LEAD ENGINEER/TECHNICIAN

CONTINUED

[PRD] DATABASE RECORD: 8939
ITEM NUMBER: T5X

- TECHNICAL DIRECTOR
- PRODUCTION TECHNICIAN
- VIDEO TECHNICIAN
- VIDEO TECHNICIAN

TELEVISION VAN TV-1
- CAMERA OPERATOR
- ENGINEER/TECHNICIAN

TELEVISION VAN TV-2
- OPERATIONS COORDINATOR
- CAMERA OPERATOR
- ENGINEER/TECHNICIAN

PHOTO/TV HELICOPTER
- CAMERA OPERATOR
- ENGINEER/TECHNICIAN

NETWORK COORDINATOR
- ENGINEER/TECHNICIAN

MICROWAVE RECEIVERS
- TECHNICIAN

PRESS CONFERENCE AUDITORIUM
- AUDIO TECHNICIAN(S)

POC: JSC/MO3-USA/RAY BANKS/281 483-8233

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/13/02
RESPONSE TRACKING: Z2649 Z6313

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5100C - PERSONNEL ASSIGNMENT SCHEDULES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 177733 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/21/88
INITIAL DATE: 11/21/88
ITEM NUMBER: K1D DATE LAST CHANGED: 05/30/07
SECTION: 5100C TIME LAST CHANGED: 10:33:09

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DODALS DODELS STSALL
TRACKING NO. DB98 KING2001 L2741 R109-37 SCRUB06
PRIORITY: REQUIRED
RATIONALE: PROVIDED IF AVAILABLE

1. DESCRIPTION: PROVIDE QUARTERS AS AVAILABLE AT DOD ALS/ELS FOR THE KSC DEPLOYED OPERATIONS TEAM AFTER AN ORBITER LANDS AT THE DOD ALS/ELS. IF NOT AVAILABLE, PROVIDE ASSISTANCE IN OBTAINING OFF BASE BILLETING .

TECH CONTACT: KSC/TIM O'BRIEN/PH-L/321 861-9303
KSC/MIKE KUTA/USK-426/321 861-3890
(D) DDMS-X/321 494-2143

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
SUBSUPPLIER: DDMS-X
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/21/88
RESPONSE TRACKING: Z2756

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5200 - TRANSPORTATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD:	179406	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	LLS	APPROVAL DATE:	08/21/95
		INITIAL DATE:	09/23/88
ITEM NUMBER:	T1X	DATE LAST CHANGED:	03/22/07
SECTION:	5200	TIME LAST CHANGED:	07:51:53

REQUESTER:	JSC	
SUBREQUESTER:	JSC/CA4	JSC/MG
TEST CODE:	EAFB	STSALL

ASSOCIATED DOC:	20026S				
TRACKING NO.	KING2001	L03-1-1	L2670	L507-5	R109-51
	R2809	SHAW95			

1. DESCRIPTION: EAFB/DFRC LANDING SITE SUPPORT

PROVIDE GROUND TRANSPORTATION IN SUPPORT OF FLIGHT CREW PERSONNEL DURING OPERATIONS FOR EARLY LANDING.
PROVIDE, MODIFY, AND SCHEDULE GROUND TRANSPORTATION AT EAFB TO ACCOMPLISH THE FOLLOWING TRANSPORTATION REQUIREMENTS:

1. A VEHICLE WITH DRIVER CAPABLE OF TRANSPORTING EIGHT (8) SUITED CREW MEMBERS WITH PORTABLE AIR VENTILATORS, SUIT TECHNICIAN, FOUR FLIGHT CREW OPERATIONS DIRECTORATE REPRESENTATIVES AND ONE MEDICAL DOCTOR. (LIFE SUPPORT EQUIPMENT PROVIDED BY JSC) A PROGRAMMABLE SCANNER SHALL BE PRESENT TO MONITOR A/G AND CONVOY COMMUNICATIONS. A VHF RADIO CAPABLE OF COMMUNICATION WITH EAFB TOWER SHALL BE PRESENT.

2. AIRCRAFT SUPPORT PERSONNEL REQUIRE A FLIGHT LINE VEHICLE AT DFRC.

3. FLIGHT CREW (ASTRONAUTS) NEEDS ONE VEHICLE (AUTO) FOR 5 DAYS PER MONTH AT DFRC. TRANSPORTATION MUST BE AVAILABLE TO FLIGHT LINE AND AREA "A".

4. ONE VEHICLE (SEDAN) FOR THE DIRECTOR OF FLIGHT CREW OPERATIONS, VITT, ASTRONAUTS, AND PILOTS.

TECH CONTACT: JSC/CA4/ROBERT HANLEY/281 244-8654

COORDINATION: JSC/CA4/ROBERT HANLEY/281 244-8654

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)

CONTINUED

[PRD] DATABASE RECORD: 179406
ITEM NUMBER: T1X

SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 01/10/96
RESPONSE: GROUND TRANSPORTATION

THE FOLLOWING VEHICLES WILL BE PROVIDED TO MEET JSC REQUIREMENTS:
1. DFRC/OD WILL PROVIDE AN SR-71 VAN CAPABLE OF TRANSPORTING TWO SUITED OR FOUR SHIRT-SLEEVE CREW MEMBERS. THIS VEHICLE CONTAINS A UHF RADIO CAPABLE OF COMMUNICATING WITH TOWER.
2. DFRC/A PROVIDES ONE (1) FLIGHT LINE VEHICLE TO CREW/VITT.
3. DFRC WILL PROVIDE GSA VEHICLES TO SUPPORT ASTRONAUTS 10 DAYS P/MON.

RESPONSE TRACKING: Z2712 Z7503

[PRD] DATABASE RECORD: 238922 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/05/96
INITIAL DATE: 09/28/88
ITEM NUMBER: T3DK DATE LAST CHANGED: 05/30/07
SECTION: 5200 TIME LAST CHANGED: 10:33:14

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: EAFB KSC STSALL WSSH

ASSOCIATED DOC: 20026S 20027S 20028S
TRACKING NO. KING2001 L02-1-1 L04-10-4 L2635 L2683
L407-3 L607-5 L6809 L7911 R109-51
R2663 R6566

1. DESCRIPTION: KSC LAUNCH, EAFB/DFRC/KSC LANDING

IF AVAILABLE TRANSPORTATION SHALL BE PROVIDED FOR THE JSC CREW PHYSICIAN TO THE INTERMEDIATE OR DEFINITIVE MEDICAL CARE FACILITY (IMCF/DMCF) WITH THE FLIGHT CREW, AND FOR RETURN OF THE CREW PHYSICIAN AND OTHER MEDICAL OPERATIONS SUPPORT PERSONNEL FROM THE IMCF/DMCF. TRANSPORTATION SHOULD BE PROVIDED FOR THE CREW LEAVING THE IMCF/DMCF.

CONTINUED

[PRD] DATABASE RECORD: 238922
ITEM NUMBER: T3DK

COORDINATION: JSC/SD2/MICHAEL CHANDLER/281 483-2956
KSC/TA-E/DON DOERR/321 867-6387

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED (SIMON) LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/26/96

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: TA-C

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/21/96
RESPONSE TRACKING: Z6811 Z8104

[PRD] DATABASE RECORD: 197767 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/26/88
INITIAL DATE: 08/26/88
ITEM NUMBER: K4X DATE LAST CHANGED: 03/22/07
SECTION: 5200 TIME LAST CHANGED: 07:52:27

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 L2646 R109-51 R2809
PRIORITY: REQUIRED
RATIONALE: BACKUP SOURCES OF TRANSPORTATION AVAILABLE.

1. DESCRIPTION: EAFB/DFRC LANDING SITE SUPPORT

PROVIDE TRANSPORTATION SERVICE AT DFRC FOR KSC AND CONTRACTOR PERSONNEL WHEN THEY ARE LOCATED OUTSIDE OF THE ORBITER HANGAR/MDD AREA.

NOTE: A SUB MOTOR POOL IN AREA A IS ACCEPTABLE.

TECH CONTACT: DEAN SCHAAF/PH-L/321 861-9311
MIKE KUTA/USK-426/321861-3890

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5200 - TRANSPORTATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 197767
ITEM NUMBER: K4X

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 07/30/96
RESPONSE:
A SUB MOTOR POOL IS AVAILABLE IN AREA "A" FOR SHORT-TERM
(<24 HRS) ON A FIRST COME, FIRST-SERVE BASIS. LONG TERM
(>24 HRS) REQUIREMENTS MUST BE SCHEDULED THROUGH GSA.

RESPONSE TRACKING: Z26156 Z7912

[PRD] DATABASE RECORD: 198818 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/26/88
INITIAL DATE: 08/26/88
ITEM NUMBER: K6EX DATE LAST CHANGED: 03/22/07
SECTION: 5200 TIME LAST CHANGED: 07:53:05

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S 25044S
TRACKING NO. DB98 KING2001 L2646 R109-51 R2809
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING SUPPORT.

1. DESCRIPTION: EAFB/DFRC LANDING SITE SUPPORT

PROVIDE VARIOUS VEHICLES AND DRIVER AT DFRC TO MOVE VARIOUS EQUIPMENT SCHEDULED. VEHICLES INCLUDE SEMI-TRACTORS AND TRAILERS, LIFTGATE TRUCKS, 4-WHEEL DRIVE VEHICLES, TOW VEHICLES, FORKLIFTS, CRANES AND HI-RANGERS.

REMARKS: USER WILL PROVIDE DRIVERS FOR GENERAL PURPOSE VEHICLES.

NOTE: EAFB WILL PROVIDE 2 CRANES, A 15 TON TRACTOR AND VARIOUS VEHICLES WHEN SCHEDULED.

CONTINUED

[PRD] DATABASE RECORD: 198818
ITEM NUMBER: K6EX

TECH CONTACT: KSC/PH-L/DEAN SCHAAF/321 861-9311
KSC/USK-426/MIKE KUTA/321 861-3890

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/26/88
RESPONSE TRACKING: Z26156 Z2641

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/26/88
RESPONSE TRACKING: Z26156

[PRD] DATABASE RECORD: 526295 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/18/06
INITIAL DATE: 05/25/94
ITEM NUMBER: KT10.1D DATE LAST CHANGED: 05/31/07
SECTION: 5200 TIME LAST CHANGED: 09:36:46

REQUESTER: KSC JSC
SUBREQUESTER: JSC/MG KSC/PH-L
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20028S
TRACKING NO. DB98 KING2001 L06-7-3 L405-3 L6818
R0607-4 R109-51 R6547
PRIORITY: MANDATORY
RATIONALE: FLIGHT CREW RESCUE

1. DESCRIPTION: F/C/R HELICOPTER TRANSPORT AT KSC (MODE VII)

REQUEST DOD PROVIDE HELICOPTER TRANSPORTATION FOR 12 KSC FIRE/CRASH/ RESCUE PERSONNEL AND ASSOCIATED EQUIPMENT TO MODE VII MISHAP SITE.

SUPPORT PARAMETERS ARE AS FOLLOWS:

CONTINUED

[PRD] DATABASE RECORD: 526295
ITEM NUMBER: KT10.1D

-IT IS HIGHLY DESIRABLE FOR HELICOPTER AIRCREWS TO HAVE SUPPORTED
AT LEAST ONE SHUTTLE CONTINGENCY SIMULATION PRIOR TO MISSION SUPPORT
AND THEY MUST BE THOROUGHLY FAMILIAR WITH MODE VII PROCEDURES.
-FOR LAUNCH, END-OF-MISSION, AND ABORT-ONCE-AROUND
-WITHIN 25 NM OF THE KSC TACAN EXCLUDING THE ATLANTIC OCEAN
-NORMAL STAGING AREA IS THE KSC SLF
-NOMINAL INSERTION IS BY HELICOPTER LANDING
-ALTERNATE INSERTION METHODS WILL BE USED WHEN APPROPRIATE
-PRIORITY MISSION OF THE DOD HELICOPTERS IS ASTRONAUT MEDEVAC

REMARKS: SUPPORT OF AOA AT THE LAUNCH SITE IS NOT TO BE CONSTRUED AS A REQUIREMENT FOR SUPPORT AT ALL AOA SITES. RATHER IT IS SEEN AS A PRUDENT SUPPORT REQUEST BASED ON THE READILY AVAILABLE, PREPOSITIONED FORCES AT THE LAUNCH SITE IN SUPPORT OF PRE-LAUNCH ACTIVITIES AND OTHER LAUNCH ASCENT ABORTS.

PRIME REQUESTER: JSC/MT3/DON MCCORMICK/281 483-1267

COORDINATION: KSC/PH-L/DENNY GAGEN/321 861-9301
KSC/SGS-009/PAT HAGGERTY/321 867-7281
HSFS-O/PAFB/321 494-5116

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/19/06
RESPONSE TRACKING: Z6552 Z6818 Z8006

[PRD] DATABASE RECORD: 347433 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/26/88
INITIAL DATE: 10/26/88
ITEM NUMBER: T13K DATE LAST CHANGED: 11/29/06
SECTION: 5200 TIME LAST CHANGED: 12:45:24

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20007S 20028S

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5200 - TRANSPORTATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 347433
ITEM NUMBER: T13K

TRACKING NO. KING2001 L2733 L812-1 R109-51

1. DESCRIPTION: KSC LAUNCH AND LANDING SITE SUPPORT

1. PROVIDE AN ASTRONAUT TRANSPORT VEHICLE TO BE UTILIZED FOR LAUNCH AND LANDING SUPPORT. THE VEHICLE SHOULD BE CAPABLE OF TRANSPORTING AT LEAST 12 PASSENGERS (TOTAL) IN A SHIRTSLEEVE ENVIRONMENT. IT SHOULD CARRY ALL NECESSARY EMERGENCY EQUIPMENT WHILE ON THE PAD OR WHEN OPERATING AS PART OF THE CONVOY, THIS VEHICLE SHOULD HAVE TUNABLE UHF AND VHF RADIOS.

2. A BACKUP VEHICLE SHOULD BE AVAILABLE IF DELAYS IN CREW ARRIVAL AT THE LAUNCH PAD ARE UNACCEPTABLE.

3. PROVIDE A DRIVER AND SECURITY REPRESENTATIVE FOR THE PRIME OR BACKUP VEHICLE.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: HEE I-PH-L USK-068

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/26/88
RESPONSE TRACKING: Z2753

[PRD] DATABASE RECORD: 291703 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/12/92
INITIAL DATE: 11/21/88
ITEM NUMBER: K14D DATE LAST CHANGED: 05/30/07
SECTION: 5200 TIME LAST CHANGED: 10:33:17

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DODALS DODELS STSALL
TRACKING NO. DB98 KING2001 L2741 L5319

1. DESCRIPTION: DOD ALS/ELS SUPPORT (POST LANDING)

WITHIN CAPABILITIES PROVIDE LOCAL BUS TRANSPORTATION OF GROUND OPERATIONS PERSONNEL, AT DOD ALS/ELS, BETWEEN THEIR OPERATIONAL WORK AREAS AND THEIR OFF-DUTY HOUSING.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5200 - TRANSPORTATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 291703
ITEM NUMBER: K14D

TECH CONTACT: DEAN SCHAAF/PH-L/321 861-9311
KSC/USK-426/MIKE KUTA/321 861-3890

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
SUBSUPPLIER: DDMS-X
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/12/92
RESPONSE TRACKING: Z2756 Z5316

[PRD] DATABASE RECORD: 292722 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/03/94
INITIAL DATE: 11/15/91
ITEM NUMBER: K15D DATE LAST CHANGED: 05/31/07
SECTION: 5200 TIME LAST CHANGED: 07:17:25

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: ALS ELS STSALL
TRACKING NO. DB98 KING2001 L2741 L3537 L4428
R109-51 R6566 SCRUB06
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR ALS/ELS TURN AROUND SUPPORT.

1. DESCRIPTION: ALS/ELS CONTINGENCY AIRLIFT

PROVIDE TRANSPORTATION TO INCLUDE HEAVY AIRLIFT OF PERSONNEL AND EQUIPMENT TO AND FROM THE ALS/ELS FOLLOWING A CONTINGENCY LANDING. NASA WILL PROVIDE THE NUMBER OF PEOPLE, WEIGHTS AND VOLUMES OF OF MATERIAL, AND THE REQUIRED TIME PHASING FROM DIFFERENT POINTS OF ORIGIN TO THE ALS/ELS. THIS INFORMATION WILL BE PROVIDED ASAP FOR THE PLANNING OF THIS SUPPORT TO PROCEED.

TECHNICAL CONTACT: KSC/PH-L/TIM O'BRIEN/321 861-9303
KSC/USK-426/MIKE KUTA/321 861-3890

NOTE: HSFS/DOD WILL IMMEDIATELY BEGIN COORDINATING ALL AVAILABLE AIRLIFT TO SUPPORT THIS REQUIREMENT.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5200 - TRANSPORTATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 292722
ITEM NUMBER: K15D

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
SUBSUPPLIER: DDMS-X
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/03/94
RESPONSE TRACKING: Z2756 Z3540 Z4508 Z6557

[PRD] DATABASE RECORD: 241014 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/18/05
INITIAL DATE: 10/04/89
ITEM NUMBER: T16D DATE LAST CHANGED: 05/30/07
SECTION: 5200 TIME LAST CHANGED: 10:33:14

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: DODELS STSALL
TRACKING NO. KING2001 L01-9-1 L04-10-4 L05-1-2 L3431
L909-3 R0501-4 R108-3 R109-51 R2663
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR ASTRONAUT RESCUE/RECOVERY SAFETY ISSUE.

1. DESCRIPTION: DOD EMERGENCY LANDING SITE SUPPORT

PROVIDE EMERGENCY MEDICAL TRANSPORTATION RESOURCES FROM LANDING OR ACCIDENT SITES WITHIN EXISTING CAPABILITIES. TRANSPORTATION SHALL HAVE THE CAPABILITY TO TRANSPORT EMERGENCY EQUIPMENT WITH STAFF AND UP TO ELEVEN (11) INJURED CREW MEMBERS FROM SCENE TO INTERMEDIATE OR DEFINITIVE CARE FACILITIES. ALL TRANSPORT USED FOR ILL OR INJURED CREW MEMBERS FROM LANDING/ACCIDENT SITES TO INTERMEDIATE OR DEFINITIVE CARE CENTERS SHALL INCLUDE THE CAPABILITY FOR EMERGENCY MEDICAL STABILIZATION; INCLUDING ESTABLISHING AND MAINTAINING AIRWAY, CONTROL OF BLEEDING, BODY IMMOBILIZATION, AND I.V. FLUIDS AND MEDICATION ADMINISTRATION. ALL TRANSPORT SHALL HAVE TWO-WAY COMMUNICATIONS CAPABILITIES, AND TRANSPORTS SHALL BE EQUIPPED WITH EMERGENCY MEDICAL KITS, AND ONE LITTER PER CREW MEMBER. MOST RAPID MODE SHOULD BE USED.

COORDINATION: JSC/SD24/MICHAEL CHANDLER/281 483-2956

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5200 - TRANSPORTATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 241014
ITEM NUMBER: T16D

NOTE: THE DOD WILL RESPOND WITH THE BEST AVAILABLE MEDEVAC TRANSPORTATION. TIMELINESS OF THE RESPONSE WILL DEPEND ON THE LOCATION OF THE LANDING SITE. ALSO, WE CANNOT GUARANTEE THE MODE OF TRANSPORT NOR THAT IT WILL HAVE ALL THE EQUIPMENT (COMM/ MEDICAL) THAT IS REQUESTED IN THIS REQUIREMENT.

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/22/05
RESPONSE TRACKING: Z0502-4 Z108-5 Z3469

[PRD] DATABASE RECORD: 248437 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/26/88
INITIAL DATE: 08/26/88
ITEM NUMBER: K17EKX DATE LAST CHANGED: 03/22/07
SECTION: 5200 TIME LAST CHANGED: 07:53:37

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL WSSH

ASSOCIATED DOC: 20026S 20027S
TRACKING NO. DB98 KING2001 L2646 R109-51
PRIORITY: REQUIRED
RATIONALE: REQUIRED FOR LANDING SUPPORT AT WSSH.

1. DESCRIPTION: WSSH LANDING SITE SUPPORT

PROVIDE SERVICES REQUIRED TO TRANSPORT ORBITER GSE FROM DFRC TO WHITE SANDS SPACE HARBOR TO SUPPORT AN ORBITER LANDING & TURNAROUND AT WHITE SANDS SPACE HARBOR PER THE OFF-SITE TRANSPORTATION PLAN TO BE PROVIDED BY THE SFOC.

TECH CONTACT: KSC/PH-L/LOUIE GARCIA/321 867-6196
KSC/USK-426/MIKE KUTA/321 861-3890
SFOC LOGISTICS/USK-363/LINDA BOYD/321 861-5330

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: WSMR

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5200 - TRANSPORTATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 248437
ITEM NUMBER: K17EKX

RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/18/88
RESPONSE TRACKING: Z26156 Z2720

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: PH-L USK-363

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/16/88
RESPONSE TRACKING: Z26156

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/26/88
RESPONSE TRACKING: Z26156

[PRD] DATABASE RECORD: 249550 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/11/92
INITIAL DATE: 10/10/89
ITEM NUMBER: K18Z DATE LAST CHANGED: 12/13/06
SECTION: 5200 TIME LAST CHANGED: 09:59:12

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 L3439 L5405 R109-51
PRIORITY: REQUIRED
RATIONALE: REQUIRED FOR LANDING SUPPORT AT WSSH.

1. DESCRIPTION: WSSH LANDING SITE SUPPORT

PROVIDE SERVICES REQUIRED TO TRANSPORT ORBITER
GSE FROM WHITE SANDS SPACE HARBOR TO DFRC AND KSC DURING
AND AFTER TURNAROUND OPERATIONS AT WSSH.

TECH CONTACT: KSC/PH-L/LOUIE GARCIA/321 867-6196

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5200 - TRANSPORTATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 249550
ITEM NUMBER: K18Z

KSC/USK-426/MIKE KUTA/321 861-3890
SFOC LOGISTICS/USK-363/LINDA BOYD/321 861-5330

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/14/92
RESPONSE TRACKING: Z26146 Z3479 Z5406

[PRD] DATABASE RECORD: 250227 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/10/89
INITIAL DATE: 10/10/89
ITEM NUMBER: K19Z DATE LAST CHANGED: 12/13/06
SECTION: 5200 TIME LAST CHANGED: 10:00:23

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 L3439 R109-51 SCRUB06
PRIORITY: REQUIRED
RATIONALE: REQUIRED FOR LANDING AT WSSH.

1. DESCRIPTION: WSSH LANDING SITE SUPPORT

PROVIDE VARIOUS VEHICLES WITH OPERATORS AT WSSH TO MOVE VARIOUS EQUIPMENT AS SCHEDULED AFTER A DECISION IS MADE TO LAND AT WSSH. VEHICLES INCLUDE SEMI-TRACTORS, SEMI-TRAILERS, LIFT-GATE TRUCKS, 4-WHEEL DRIVE VEHICLES, FORK-LIFTS, CRANES AND HI-RANGERS.

TECH CONTACT: KSC/LOUIE GARCIA/PH-L/321 861-6196
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/10/89
RESPONSE TRACKING: Z26146 Z3479

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5200 - TRANSPORTATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 250227
ITEM NUMBER: K19Z

[PRD] DATABASE RECORD: 251701 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/11/92
INITIAL DATE: 10/10/89
ITEM NUMBER: K20Z DATE LAST CHANGED: 11/29/06
SECTION: 5200 TIME LAST CHANGED: 12:57:07

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 L3439 L5405 R109-51
PRIORITY: REQUIRED
RATIONALE: REQUIRED FOR LANDING SUPPORT AT WSSH.

1. DESCRIPTION: WSSH LANDING SITE SUPPORT

PROVIDE ONE CLOSED VEHICLE, TO BE USED AS SCAPE TRANSPORT VAN
TO SUPPORT THE POST-LANDING OPERATIONS AT WHITE SANDS SPACE HARBOR.
VEHICLE SHOULD BE CAPABLE OF TRANSPORTING SIX SCAPE-SUITED
PERSONNEL AND BE CAPABLE OF TRANSPORTING THE KSC PROVIDED
EXPLOSION DETECTION DEVICE.

TECH CONTACT: KSC/PH-L/LOUIE GARCIA/321 867-6196
KSC/USK-426/MIKE KUTA/321 861-3890

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/14/92
RESPONSE TRACKING: Z26146 Z3479 Z5406

[PRD] DATABASE RECORD: 253390 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/28/05
INITIAL DATE: 10/10/89
ITEM NUMBER: K21Z DATE LAST CHANGED: 12/18/06
SECTION: 5200 TIME LAST CHANGED: 13:45:46

REQUESTER: KSC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5200 - TRANSPORTATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 253390
ITEM NUMBER: K21Z

SUBREQUESTER: KSC/PH-L KSC/USK-426
TEST CODE: S0027.001 STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. COMREV05 DB98 KING2001 L3439 L5404
R0501-1 R0504-8 R109-51
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING SUPPORT AT WSSH.

1. DESCRIPTION: WSSH LANDING SITE SUPPORT/CONVOY COMMAND VEHICLE (CCV) AND BACKUP VEHICLE

PROVIDE A CONVOY COMMAND VEHICLE (CCV) AS WELL AS A BACKUP. THIS TO INCLUDE A CERTIFIED OPERATOR FOR AOA, CLS, AND EOM LANDING OPERATIONS. VEHICLE TO BE CAPABLE OF SUPPORTING COMMUNICATIONS FOR ALL PHASES OF SHUTTLE LANDING. VEHICLE WILL SUPPORT LANDING AND EXERCISES FOR AOA, EOM OR ANY CONTINGENCY LANDING AND TURNAROUND OPERATIONS.

THE BACKUP VEHICLE WILL BE EQUIPPED WITH TUNABLE VHF, UHF A/G RADIOS, A SMARTZPONE MOBILE RADIO WITH ALL OPERATIONS TALK GROUPS, AND A VHF CONVENTIONAL MOBILE RADIO.

TECH CONTACT: KSC/PH-L/LOU GARCIA/321 867-6196
KSC/USK-426/MIKE KUTA/321 861-3890
WSTF/ROBERT MITCHELL/505 524-5774

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/13/05
RESPONSE TRACKING: Z0504-5 Z26146 Z3479 Z5405

[PRD] DATABASE RECORD: 263550 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/06/01
INITIAL DATE: 10/26/88
ITEM NUMBER: T23Z DATE LAST CHANGED: 11/29/06

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5200 - TRANSPORTATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 263550
ITEM NUMBER: T23Z

SECTION: 5200 TIME LAST CHANGED: 12:59:31

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. KING2001 L01-9-1 L04-10-4 L2634 L2733
L5404 R108-3 R109-51

1. DESCRIPTION: WSSH LANDING SITE SUPPORT

TRANSPORATION SHALL BE PROVIDED BY WSTF FOR THE RETURN FROM THE IMCF OR DMCF OF THE CREW SURGEON AND DEPUTY CREW SURGEON AND OTHER MEDICAL AND OPERATIONS SUPPORT PERSONNEL DEPLOYED THERE. TRANSPORTATION SHOULD ALSO BE PROVIDED FOR CREW LEAVING THE IMCF OR DMCF.

COORDINATION: JSC/SD2/MICHAEL CHANDLER/281 483-2956

TIME LINE: TRANSPORTATION WILL BE REQUESTED IN REALTIME.

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/06/01
RESPONSE TRACKING: Z26146 Z2753 Z5405

[PRD] DATABASE RECORD: 264861 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/29/89
INITIAL DATE: 09/29/89
ITEM NUMBER: KT24Z DATE LAST CHANGED: 12/18/06
SECTION: 5200 TIME LAST CHANGED: 13:43:10

REQUESTER: KSC JSC
SUBREQUESTER: JSC/CA4 JSC/MG JSC/SD2 KSC/PH-L
KSC/USK-426
TEST CODE: LANDNG S0027.001 STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. COMREV05 DB98 KING2001 L03-1-1 L2672

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5200 - TRANSPORTATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 264861
ITEM NUMBER: KT24Z

L3417 L507-5 L812-1 R109-51 SHAW95
PRIORITY: REQUIRED
RATIONALE: ASTRONAUT TRANSPORTATION AT WSSH.

1. DESCRIPTION: WSSH LANDING SITE SUPPORT

THE FOLLOWING GROUND TRANSPORTATION WILL BE PROVIDED BY WSTF IN SUPPORT OF FLIGHT CREW PERSONNEL DURING LANDING POST-ROLLOUT AT WSSH.

1. FOR A PLANNED END-OF-MISSION (EOM) AT WSSH, A RECREATION-TYPE VEHICLE CONTAINING AIR CONDITIONING, A REFRIGERATOR, WATER, SINK, EQUIPPED WITH A 120 VAC GENERATOR.

2. A QUALIFIED DRIVER IS REQUIRED FOR THE VEHICLES PROVIDED.

THE VEHICLE IS TO BE MANNED BY THE FLIGHT CREW, CREW PHYSICIAN, SUIT TECHNICIAN(S), FCOD REPRESENTATIVES AND THE DRIVER.

TECHNICAL CONTACT: JSC/CA4/ROBERT HANLEY/281 244-8654
KSC/PH-L/LOU GARCIA/321 861-6196
KSC/USK-426/MIKE KUTA/321 861-3890

COORDINATION: JSC/CA4/ROBERT HANLEY/281 244-8654

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/29/89
RESPONSE TRACKING: Z26146 Z2705 Z3457

[PRD] DATABASE RECORD: 268379 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/26/88
INITIAL DATE: 10/26/88
ITEM NUMBER: T25E DATE LAST CHANGED: 12/13/06
SECTION: 5200 TIME LAST CHANGED: 10:02:10

REQUESTER: JSC
TEST CODE: STSALL WSSH

CONTINUED

[PRD] DATABASE RECORD: 268379
ITEM NUMBER: T25E

ASSOCIATED DOC: 20027S
TRACKING NO. KING2001 L2733 R109-51

1. DESCRIPTION: WSSH LANDING SITE SUPPORT

SHUTTLE BUS RUNS DURING NORMAL WORKING HOURS BETWEEN BLDG 122 AND WHITE SANDS SPACE HARBOR WILL BE REQUIRED BEGINNING FOUR DAYS PRIOR TO LAUNCH AND CONTINUING THROUGH ORBITER DEPARTURE (APPROXIMATELY ONE WEEK AFTER LANDING). TWO DEDICATED BUSES WILL ALLOW HOURLY DEPARTURES AT BOTH ENDS. ON LANDING DAYS UP TO SIX BUSES WILL BE REQUIRED TO ACCOMMODATE PRESS.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/26/88
RESPONSE TRACKING: Z2720 Z2753

[PRD] DATABASE RECORD: 270135 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/02/90
INITIAL DATE: 02/02/90
ITEM NUMBER: T26E DATE LAST CHANGED: 12/13/06
SECTION: 5200 TIME LAST CHANGED: 10:02:35

REQUESTER: JSC
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. KING2001 L001-11 L3625 R109-51

1. DESCRIPTION: WSSH LANDING SITE SUPPORT

FOR WHITE SANDS SPACE HARBOR LANDINGS, PROVIDE HELICOPTER TRANSPORT OF CREW FAMILY AND VIP'S (APPROXIMATELY 12 PEOPLE) FROM THE LANDING STRIP TO HOLLOMAN AFB.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)

CONTINUED

[PRD] DATABASE RECORD: 270135
ITEM NUMBER: T26E

SUBSUPPLIER: WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/08/90
RESPONSE TRACKING: Z2720 Z3623

[PRD] DATABASE RECORD: 295392 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/21/88
INITIAL DATE: 11/21/88
ITEM NUMBER: K27D DATE LAST CHANGED: 05/30/07
SECTION: 5200 TIME LAST CHANGED: 10:33:17

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: FERRY STSALL
TRACKING NO. DB98 KING2001 L2741 R109-51
PRIORITY: MANDATORY
RATIONALE: REQUIRED TO SUPPORT SAFETY ASSESSMENT OF VEHICLE.

1. DESCRIPTION: FERRY SITE SUPPORT

WITHIN CAPABILITIES PROVIDE A FLIGHT-LINE VEHICLE AND DRIVER TO TRANSPORT A HAZARD ASSESSMENT TEAM OF FOUR (4) PERSONS TO THE ORBITER/SCA AT A HAZARDOUS CARGO AREA AT DOD FERRY LANDING SITES.

TECH CONTACT: KSC/PH-L/DENNY GAGEN/321 861-9301
KSC/USK-426/MIKE KUTA/321 861-3890

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/21/88
RESPONSE TRACKING: Z2756

[PRD] DATABASE RECORD: 296038 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/25/88
INITIAL DATE: 07/25/88
ITEM NUMBER: K28D DATE LAST CHANGED: 05/30/07
SECTION: 5200 TIME LAST CHANGED: 10:33:17

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5200 - TRANSPORTATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 296038
ITEM NUMBER: K28D

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: FERRY S5022.200 STSALL

ASSOCIATED DOC: 25022S
TRACKING NO. DB98 KING2001 L4314 R109-51 R26229
PRIORITY: REQUIRED
RATIONALE: PROVIDED WITHIN CAPABILITIES

1. DESCRIPTION: FERRY SITE SUPPORT

PROVIDE LOCAL TRANSPORTATION FOR 30 PERSONNEL. TRANSPORTATION IS REQUIRED TO OBTAIN FOOD AND LODGING AT ORBITER/SCA DOD FERRY LANDING SITES.

TECH CONTACT: KSC/PH-L/DENNY GAGEN/321 861-9301
KSC/USK-426/MIKE KUTA/321 861-3980

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/01/91
RESPONSE TRACKING: Z26210 Z4340

[PRD] DATABASE RECORD: 294411 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/22/88
INITIAL DATE: 11/22/88
ITEM NUMBER: T29D DATE LAST CHANGED: 05/30/07
SECTION: 5200 TIME LAST CHANGED: 10:33:17

REQUESTER: JSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: FERRY STSALL
TRACKING NO. KING2001 L2741 R109-51
PRIORITY: REQUIRED
RATIONALE: PROVIDED WITHIN CAPABILITIES

1. DESCRIPTION: FERRY SITE SUPPORT

CONTINUED

[PRD] DATABASE RECORD: 294411
ITEM NUMBER: T29D

TRANSPORTATION FOR SCA/FERRY PERSONNEL - THE SCA/FERRY CREW WILL REQUIRE A RADIO (GROUND CONTROL) EQUIPPED VEHICLE WITH DRIVER WITHIN CAPABILITIES AT DOD ENROUTE SITES TO ACCOMMODATE 6 MAINTENANCE PERSONNEL AND 400 LBS OF EQUIPMENT(VAN-TYPE PREFERRED OR CREW BUS).

TECH CONTACT: KSC/PH-L/DENNY GAGEN/321 861-9301
KSC/USK-426/MIKE KUTA/321 861-3980

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/21/88
RESPONSE TRACKING: Z2756

[PRD] DATABASE RECORD: 201823 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/02/93
INITIAL DATE: 04/11/90
ITEM NUMBER: T32K DATE LAST CHANGED: 11/29/06
SECTION: 5200 TIME LAST CHANGED: 13:07:15

REQUESTER: JSC
SUBREQUESTER: JSC/CA4
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20007S 20017S 20028S
TRACKING NO. L004-2 L03-1-1 L303-1 L5535 R109-51
R3510

1. DESCRIPTION: TRANSPORTATION

THE JSC FLIGHT CREW OPERATIONS DIRECTORATE OFFICE AT KSC WILL REQUIRE THE FULL-TIME USE OF ONE GSA VEHICLE AND A SECOND VEHICLE AS REQUESTED BELOW:

L-3 TCDT ONE BLUE BIRD BUS (18 PASSENGER BENCH SEATS)
L-2 TCDT ONE CARGO VAN

L-3 LAUNCH ONE BLUE BIRD BUS (18 PASSENGER BENCH SEATS)

CONTINUED

[PRD] DATABASE RECORD: 201823
ITEM NUMBER: T32K

L-2 LAUNCH ONE CARGO VAN

L-0 LANDING TWO BLUE BIRD BUSES (18 PASSENGER BENCH SEATS)
L-0 LANDING ONE CARGO VAN

COORDINATION: JSC/CA4/ROBERT HANLEY/281 244-8654

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IM-S-A

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/02/93
RESPONSE TRACKING: Z3505 Z5533

[PRD] DATABASE RECORD: 289115 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/12/89
INITIAL DATE: 09/12/89
ITEM NUMBER: K33E DATE LAST CHANGED: 12/01/06
SECTION: 5200 TIME LAST CHANGED: 13:37:28

REQUESTER: KSC
SUBREQUESTER: NE-M USK-437
TEST CODE: CCAFS STSALL
TRACKING NO. DB98 KING2001 R109-51 R3448
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR DISTRIBUTION OF ORDNANCE TO SHUTTLE ELEMENTS.

1. DESCRIPTION: ORDNANCE TRANSPORTATION

TRANSPORT ORDNANCE FROM STORAGE TO INSTALLATION
FACILITIES AT KSC AS REQUESTED.

TECH CONTACT: KSC/JIM SCHICK/USK-437/ 321 861-6121
KSC ORDNANCE STORAGE FACILITY

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5200 - TRANSPORTATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 289115
ITEM NUMBER: K33E

RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/12/89
RESPONSE TRACKING: Z3433

[PRD] DATABASE RECORD: 13990 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/07/05
INITIAL DATE: 03/04/88
ITEM NUMBER: K39D DATE LAST CHANGED: 05/30/07
SECTION: 5200 TIME LAST CHANGED: 10:33:03

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: ISTRES MORON TAL ZARAGOZA

ASSOCIATED DOC: 20029S 20057S 20070S
TRACKING NO. DB98 KING2001 L114-3 L3848 R2677
R2684 R6540 SHAW94
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR NONCONUS TAL OR ELS LANDING.

1. DESCRIPTION: MILITARY AIR (MILAIR) TRANSPORTATION

IN THE EVENT OF AN ORBITER LANDING AT A TAL OR NON-CONUS ELS, PROVIDE MILAIR TRANSPORTATION ASAP AFTER LANDING FOR APPROXIMATELY 10 NASA/ CONTRACTOR PERSONNEL AND EQUIPMENT FROM THE OTHER ACTIVE TAL SITES TO THE CONTINGENCY LANDING SITE.

FOR MILAIR BETWEEN ACTIVE TALS, THE PRIMARY RESOURCE DESIRED IS THE IN-PLACE C-130 AIRCRAFT SUPPORTING THE TALS. TRANSPORT FROM ACTIVE TAL TO A DESIGNATED ELS SHOULD BE VIA THE IN-PLACE C-130 IF PRACTICAL; IF NOT, REQUEST A SPECIAL ASSIGNMENT AIRLIFT MISSION (SAAM) BE COORDINATED REAL-TIME.

ALL SUPPORT WILL BE REQUESTED REAL-TIME AFTER A CONTINGENCY LANDING.

TECH CONTACTS: KSC/PH-L/GLEN LOCKWOOD/321 861-9310
KSC/USK-426/MIKE KUTA/321 861-3890

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5200 - TRANSPORTATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 13990
ITEM NUMBER: K39D

SUBSUPPLIER: DDMS-X
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/08/05
RESPONSE TRACKING: Z0509-1 Z6531

[PRD] DATABASE RECORD: 14649 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/01/89
INITIAL DATE: 09/01/89
ITEM NUMBER: K41D DATE LAST CHANGED: 05/30/07
SECTION: 5200 TIME LAST CHANGED: 10:33:03

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L
TEST CODE: EAFB STSALL WSSH

ASSOCIATED DOC: 20026S 20027S
TRACKING NO. DB98 KING2001 R109-51 R26150 R3451
PRIORITY: MANDATORY
RATIONALE: LANDING/RESCUE SUPPORT

1. DESCRIPTION: HELICOPTER TRANSPORTATION

IN THE EVENT THAT A MODE 7 RESCUE IS REQUIRED AT DFRC (EAFB) OR WSSH, HELICOPTER TRANSPORTATION, WITHIN EXISTING CAPABILITY, WILL BE REQUIRED FOR THE NASA CONVOY COMMANDER (NCC) ON SITE TO THE ABORT LANDING AREA. THE NCC WILL BE REQUIRED TO ASSESS THE SITUATION AND DIRECT CONVOY ELEMENT DISPOSITION AS REQUIRED.

TECH CONTACTS: KSC/PH-L/DEAN SCHAAF/321 861-9311
KSC/USK-426/MIKE KUTA/321 861-3980
DDMS-O/321 494-5116

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/01/89
RESPONSE TRACKING: Z3434

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5200 - TRANSPORTATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 16073 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/12/89
INITIAL DATE: 01/12/89
ITEM NUMBER: T43D DATE LAST CHANGED: 05/30/07
SECTION: 5200 TIME LAST CHANGED: 10:33:05

REQUESTER: JSC
TEST CODE: FERRY
TRACKING NO. KING2001 R109-51 R26251 R2954
PRIORITY: REQUIRED
RATIONALE: PROVIDE WITHIN CAPABILITY

1. DESCRIPTION: TRANSPORTATION FOR FERRY PROJECT OFFICE

AT EACH FERRY STOP-OVER POINT, PROVIDE ONE U-DRIVE SEDAN FOR THE FERRY PROJECT OFFICER'S USE, FROM ARRIVAL TO DEPARTURE OF THE PATHFINDER A/C.

TECH CONTACTS: JSC/MV/JOE AQUINO/281 483-4033
DDMS-H/LT COL RANDY HEINBAUGH/281-483-1351

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/12/89
RESPONSE TRACKING: Z26210 Z2943

[PRD] DATABASE RECORD: 16287 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/06/01
INITIAL DATE: 09/22/88
ITEM NUMBER: T44E DATE LAST CHANGED: 12/13/06
SECTION: 5200 TIME LAST CHANGED: 10:05:42

REQUESTER: JSC
SUBREQUESTER: JSC/CA7 JSC/SD2
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. KING2001 L01-9-1 L04-10-4 L2669 R108-3
R109-51

1. DESCRIPTION: WSSH LANDING SITE SUPPORT

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5200 - TRANSPORTATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 16287
ITEM NUMBER: T44E

PROVIDE HELICOPTER TRANSPORT OF EIGHT FLIGHT CREW MEMBERS, CREW PHYSICIAN, AND FOUR NASA REPRESENTATIVES FROM THE WSSH DESERVICING AREA TO THE DEPARTURE SITE FOR THE CREW MEMBERS RETURN TO HOUSTON.

TECHNICAL CONTACT: JSC/CB/WILLIAM MCARTHUR/281 244-8936

COORDINATION: JSC/CB/WILLIAM MCARTHUR/281 244-8936
JSC/DV/JOE AQUINO/281 483-4033
JSC/SD24/MICHAEL CHANDLER/281 483-2956

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/06/01
RESPONSE TRACKING: Z2718

[PRD] DATABASE RECORD: 517465 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/06/01
INITIAL DATE: 11/13/91
ITEM NUMBER: T45DT DATE LAST CHANGED: 05/30/07
SECTION: 5200 TIME LAST CHANGED: 10:33:22

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: EAFB KSC LANDNG WSSH

ASSOCIATED DOC: 20026S 20027S 20028S
TRACKING NO. KING2001 L01-9-1 L04-10-4 L111-12 L111-12A
L203-5 L4423 L4434 L4509 R108-3
R109-51
PRIORITY: MANDATORY
RATIONALE: ASTRONAUT MEDICAL

1. DESCRIPTION: TRANSPORTATION OF CREWMEMBER(S) WITH DECOMPRESSION SICKNESS (DCS)

PROVIDE A MEDEVAC AIRCRAFT FOR TRANSPORT OF CREW MEMBER(S), AS REQUIRED, WITH DECOMPRESSION SICKNESS (DCS) SYMPTOMS. TRANSPORTATION

CONTINUED

[PRD] DATABASE RECORD: 517465
ITEM NUMBER: T45DT

FROM THE LANDING SITE TO A DESIGNATED HYPERBARIC CHAMBER FACILITY IN AN AIRCRAFT CAPABLE OF MAINTAINING SEA LEVEL OR LANDING SITE PRESSURE ALTITUDE IS REQUIRED. DOD AIR MEDEVAC WILL BE TO THE NEAREST SUITABLE AIRFIELD TO THE DESIGNATED HYPERBARIC CHAMBER FACILITY. FOLLOW-ON TRANSPORTATION TO AND FROM NON-DOD FACILITIES IS A NASA RESPONSIBILITY. STANDBY SUPPORT BY DOD MEDEVAC AIRCRAFT WILL BE BEST EFFORT. A DOD MEDEVAC AIRCRAFT IS THE FIRST CHOICE, BUT IF IT IS UNAVAILABLE, A NASA SHUTTLE TRAINING AIRCRAFT (STA) IS REQUIRED WITHIN THE CONUS.

TECHNICAL CONTACT: JSC/SD4/MICHAEL CHANDLER/281 483-2956

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/06/01
RESPONSE TRACKING: Z4235 Z4508 Z4523

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/06/01
RESPONSE TRACKING: Z4465 Z4523

[PRD] DATABASE RECORD: 517529 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/13/02
INITIAL DATE: 11/15/91
ITEM NUMBER: K46D DATE LAST CHANGED: 05/31/07
SECTION: 5200 TIME LAST CHANGED: 08:20:58

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: ALS ELS
TRACKING NO. DB98 KING2001 L4428 L6410 R109-51
R6526
PRIORITY: MANDATORY
RATIONALE: ALS/ELS LANDING SUPPORT

1. DESCRIPTION: DOD RAPID RESPONSE TEAM (RRT) TRANSPORTATION

UPON NOTIFICATION BY NASA, PROVIDE MILITARY AIRLIFT (MILAIR) FOR

CONTINUED

[PRD] DATABASE RECORD: 517529
ITEM NUMBER: K46D

80 RRT MEMBERS AND CARGO FROM KSC TO THE DESIGNATED ALS/ELS. PERSONNEL AND CARGO WILL NOT EXCEED THE LOAD LIMITS OF A C-17 AIRCRAFT. IN THE EVENT OF A TAL LANDING THE AIRCRAFT IS REQUIRED TO BE AT THE SLF AT KSC NO LATER THAN EIGHT HOURS AFTER NOTIFICATION OF LANDING. FOR AN EMERGENCY LANDING (NON-CONUS) THE AIRCRAFT IS REQUIRED TO BE AT THE SLF NO LATER THAN 13 HOURS AFTER NOTIFICATION OF LANDING.

TECH CONTACTS: LRD/PH-L/321 861-9300
KSC/USK-426/MIKE KUTA/321 861-3890
HSFS-X/MICHAEL SKAGGS/321 494-5317

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
SUBSUPPLIER: DDMS-0
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/13/02
RESPONSE TRACKING: Z4508 Z6415 Z6515

[PRD] DATABASE RECORD: 591161 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/23/07
INITIAL DATE: 03/23/07
ITEM NUMBER: K47DZ DATE LAST CHANGED: 05/31/07
SECTION: 5200 TIME LAST CHANGED: 10:20:31

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L
TEST CODE:

ASSOCIATED DOC: 20027S
TRACKING NO. R0703-5 R0704-1

1. DESCRIPTION: DOD AIRLIFT OF WSSH SUPPORT/PERSONNEL/EQUIPMENT

UPON NOTIFICATION BY NASA AT LEAST 96 HOURS PRIOR TO A SPACE SHUTTLE LANDING AT WSSH, PROVIDE MILITARY AIRLIFT FOR APPROXIMATELY 45 NASA PERSONNEL AND CARGO FROM KSC TO WSSH. THE AIRLIFT AIRCRAFT IS EXPECTED TO ARRIVE AT KSC AT LEAST 72 HOURS PRIOR TO THE SPACE SHUTTLE LANDING AT WSSH FOR PERSONNEL/EQUIPMENT UPLOAD AND ARRIVE AT WSSH NO LATER THAN 48 HOURS PRIOR TO SPACE SHUTTLE LANDING AT

CONTINUED

[PRD] DATABASE RECORD: 591161
ITEM NUMBER: K47DZ

WSSH FOR PERSONNEL/EQUIPMENT DOWNLOAD. THE PERSONNEL AND CARGO WILL NOT EXCEED THE LOAD LIMITS OF ONE C-17 AIRCRAFT.

IF THE C-17 LANDS AT HOLLOMAN AFB THEN PROVIDE LOADING OF THE AIRLIFTED ORBITER GSE ONTO FLATBEDS, TRANSPORTATION TO THE WSSH TURNAROUND PAD AND OFF LOAD OF THE ORBITER GSE FROM THE FLATBEDS AT WSSH. IF THE C-17 LANDS ON THE LAKEBED AT WSSH THEN PROVIDE THE TRANSPORTATION NECESSARY TO GET THE AIRLIFTED ORBITER GSE TO THE TURNAROUND PAD. KSC WILL PROVIDE ANY SPECIAL LIFTING, LOADING AND/OR TRANSPORTATION REQUIREMENTS FOR THE GSE.

TECH CONTACTS: LRD/PH-L/321 861-9300
KSC/MIKE KUTA/321 861-3890
HSFS-X/321 494-2143
HSFS/MICHAEL SKAGGS/321 494-5317

WSTF/ROBERT MITCHELL/505 524-5774

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 04/13/07
RESPONSE: DEPENDENT ON AVAILABILITY OF AIRLIFT.

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/26/07

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5300 - SERVICES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 220739 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/19/89
INITIAL DATE: 09/19/89
ITEM NUMBER: K2X DATE LAST CHANGED: 03/22/07
SECTION: 5300 TIME LAST CHANGED: 07:54:13

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 L3409 R109-21 R2809
SCRUB06
PRIORITY: REQUIRED
RATIONALE: ALTERNATE SOURCES AVAILABLE.

1. TYPE/ITEM
SERVICE: LAUNDRY AT DFRC
2. RA OR SA: SA
3. DATES, AMTS.
OR CHECK FOR
REQ'D ITEM/
SERVICE:
4. PURPOSE/REMARKS/
SPEC. INSTRUCT: PROVIDE LAUNDRY SERVICES AT DFRC FOR PROTECTIVE CLOTHING UNDERGARMENTS, FLAME RETARDANT ANTI-STATIC COVERALLS, TOWELS AND FLAME RETARDANT COVERALLS.

TECH CONTACT: KSC/PH-L/DEAN SCHAAF/321 861-9311
KSC/USK-426/MIKE KUTA/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FM
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/25/89
RESPONSE TRACKING: Z3451

[PRD] DATABASE RECORD: 226355 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/21/88
INITIAL DATE: 11/21/88
ITEM NUMBER: K3D DATE LAST CHANGED: 05/30/07
SECTION: 5300 TIME LAST CHANGED: 10:33:13

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5300 - SERVICES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 226355
ITEM NUMBER: K3D

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DODALS DODELS STSALL
TRACKING NO. DB98 KING2001 L2741
PRIORITY: REQUIRED
RATIONALE: ALTERNATE SOURCES AVAILABLE.

1. TYPE/ITEM
   SERVICE: LAUNDRY AT DOD ALS/ELS
2. RA OR SA: SA
3. DATES, AMTS.
   OR CHECK FOR
   REQ'D ITEM/
   SERVICE:
4. PURPOSE/REMARKS/
   SPEC. INSTRUCT: PROVIDE ASSISTANCE IN PROVIDING STANDARD
   COMMERCIAL LAUNDRY SERVICES FOR PROTECTIVE
   CLOTHING UNDERGARMENTS AND FLAME RETARDANT,
   ANTI-STATIC COVERALLS.

   TECH CONTACT: KSC/USK-426/MIKE KUTA/321 861-3890
   KSC/PH-L/TIM O'BRIEN/321 861-9303

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/21/88
RESPONSE TRACKING: Z2756

[PRD] DATABASE RECORD: 232262 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/11/92
INITIAL DATE: 09/29/89
ITEM NUMBER: K4Z DATE LAST CHANGED: 11/29/06
SECTION: 5300 TIME LAST CHANGED: 13:34:01

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5300 - SERVICES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 232262
ITEM NUMBER: K4Z

TRACKING NO. DB98 KING2001 L3409 L5405 R109-21
PRIORITY: REQUIRED
RATIONALE: ALTERNATE SOURCES AVAILABLE

1. TYPE/ITEM
   SERVICE: LAUNDRY AT WHITE SANDS SPACE HARBOR
2. RA OR SA: SA
3. DATES, AMTS.
   OR CHECK FOR
   REQ'D ITEM/
   SERVICE:
4. PURPOSE/REMARKS/
   SPEC. INSTRUCT: PROVIDE LAUNDRY SERVICES FOR PROTECTIVE CLOTHING UNDERGARMENTS AND FLAME RETARDANT, ANTI-STATIC COVERALLS.

   CONTACT: KSC/PH-L/LOUIE GARCIA/321 867-6196
   KSC/USK-426/MIKE KUTA/321 861-3890

   TIMELINE: 72 HRS AFTER LANDING

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/14/92
RESPONSE TRACKING: Z26146 Z3451 Z5406

[PRD] DATABASE RECORD: 304373 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/19/89
INITIAL DATE: 09/19/89
ITEM NUMBER: K5X DATE LAST CHANGED: 03/22/07
SECTION: 5300 TIME LAST CHANGED: 07:54:49

REQUESTER: KSC
SUBREQUESTER: KSC/NE-E1 KSC/PH-L KSC/USK426
TEST CODE: 26002 EAFB MSBLS STSALL

ASSOCIATED DOC: 20026S 26002
TRACKING NO. DB98 KING2001 L3409 R109-21 R2809

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5300 - SERVICES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 304373
ITEM NUMBER: K5X

PRIORITY: MANDATORY
RATIONALE: REQUIRED FLIGHT TEST, EVERY TWO YEARS.

1. TYPE/ITEM
   SERVICE: TEST SUPPORT COORDINATION AND SCHEDULING-DFRC
2. RA OR SA:
3. DATES, AMTS.
   OR CHECK FOR
   REQ'D ITEM/
   SERVICE:
4. PURPOSE/REMARKS/
   SPEC. INSTRUCT: THE KSC GROUND OPERATIONS TEAM AND THE MSBLS TEST TEAM REQUIRE DFRC AND AFFTC TEST SUPPORT COORDINATION AND SCHEDULING TO BE PERFORMED BY DFRC TEST SUPPORT CONTROLLERS DURING SITE ACTIVATION, MSBLS TESTING, AND GROUND TURNAROUND OPERATIONS.

   TECH CONTACT: KSC/PH-L/DEAN SCHAAF/321 861-9311
   KSC/NE-E1/JOHN KIRIAZES/321 861-3700

   KSC/USK-426/MIKE KUTA/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/25/89
RESPONSE TRACKING: Z3451

[PRD] DATABASE RECORD: 313745 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/19/89
INITIAL DATE: 09/19/89
ITEM NUMBER: K6Z DATE LAST CHANGED: 02/13/07
SECTION: 5300 TIME LAST CHANGED: 13:22:28

REQUESTER: KSC
SUBREQUESTER: KSC/IT-D2-C KSC/PH-L KSC/USK-426
TEST CODE: 26002D MSBLS STSALL WSSH

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5300 - SERVICES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 313745
ITEM NUMBER: K6Z

ASSOCIATED DOC: 20027S 26002
TRACKING NO. KING2001 L3409 R109-21
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR FLIGHT TEST EVERY TWO YEARS.

1. TYPE/ITEM
   SERVICE: TEST SUPPORT COORDINATION AT WHITE SANDS SPACE HARBOR
2. RA OR SA: SA
3. DATES, AMTS. OR CHECK FOR REQ'D ITEM/ SERVICE:
4. PURPOSE/REMARKS/
   SPEC. INSTRUCT: COORDINATE LOCALLY-PROVIDED SUPPORT FOR SHUTTLE GROUND OPERATIONS AND DURING MSBLS TESTING, INCLUDING FACILITY AND UTILITY ACTIVATION, OPERATION, MAINTENANCE AND DEACTIVATION.

   TECH CONTACT: KSC/PH-L/LOUIE GARCIA/321 867-6196
   KSC/NE-E1/JOHN KIRIAZES/321 861-3700

   KSC/USK-426/MIKE KUTA/321 861-3890

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/19/89
RESPONSE TRACKING: Z26146 Z3451

[PRD] DATABASE RECORD: 316396 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/29/94
INITIAL DATE: 09/19/89
ITEM NUMBER: K7D DATE LAST CHANGED: 05/31/07
SECTION: 5300 TIME LAST CHANGED: 07:31:11

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L KSC/USK-426

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5300 - SERVICES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 316396
ITEM NUMBER: K7D

TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 L3409 R109-21 R3451
R6521
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR WSSH LANDING AND MSBLS TESTING EVERY TWO YEARS.

1. TYPE/ITEM SERVICE: DOD ON-SCENE COMMANDER (DOD OSC) AT WSSH
2. RA OR SA: SA
3. DATES, AMTS. OR CHECK FOR REQ'D ITEM/ SERVICE:
4. PURPOSE/REMARKS/ SPEC. INSTRUCT: PROVIDE A DOD ON-SCENE COMMANDER (AT WSSH WITH COMMUNICATIONS CAPABILITY) TO ACT AS THE COUNTERPART TO THE NASA CONVOY COMMANDER. THE DOD OSC WILL DIRECT THE DOD CONTINGENCY RESPONSE FORCES POSITIONED FOR AN ORBITER LANDING INCLUDING FIRE/CRASH/RESCUE, MEDICAL, SAR, MEDEVAC, AND OTHER AS REQUIRED. FOR SUBSEQUENT POST-LANDING OPERATIONS, A DOD REPRESENTATIVE SHOULD BE DESIGNATED TO FUNCTION AS NASA LIAISON/ INTERFACE IN THE ABSENCE OF THE DOD OSC.

TECH CONTACT: KSC/PH-L/LOUIE GARCIA/321 867-6196
KSC/USK-426/MIKE KUTA/321 861-3890
HSFS-0/321-494-5116

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/29/94
RESPONSE TRACKING: Z2920 Z3434 Z3451 Z6508

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5300 - SERVICES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 238432 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/31/94
INITIAL DATE: 12/12/88
ITEM NUMBER: K8DE DATE LAST CHANGED: 05/30/07
SECTION: 5300 TIME LAST CHANGED: 10:33:14

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 R109-21 R2660 R2809
R2906 R6565
PRIORITY: MANDATORY
RATIONALE: LANDING SUPPORT AT EAFB.

1. TYPE/ITEM
SERVICE: EDWARDS AFB ON-SCENE COMMANDER (EAFB OSC)
2. RA OR SA: SA
3. DATES, AMTS.
OR CHECK FOR
REQ'D ITEM/
SERVICE:
4. PURPOSE/REMARKS/
SPEC. INSTRUCT: PROVIDE A DOD ON-SCENE COMMANDER, AT EAFB WITH **
COMMUNICATIONS CAPABILITY, TO ACT AS INTERFACE
BETWEEN NASA AND THE VARIOUS DOD SUPPORT ELEMENTS
INCLUDING FIRE, RESCUE, MEDICAL AND SECURITY,
DURING HAZARDOUS OPERATIONS.

CONTACT: KSC/PH-L/DEAN SCHAAF/321 861-9311
KSC/USK-426/MIKE KUTA/321 861-3980

NOTE: DDMS WILL TASK/TRAIN AN EAFB OSC.
EAFB WILL PROVIDE COMMUNICATIONS CAPABILITY

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/31/94
RESPONSE TRACKING: Z2915 Z6556

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5300 - SERVICES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 238432
ITEM NUMBER: K8DE

SUBSUPPLIER: EAFB
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/03/94
RESPONSE TRACKING: Z2915 Z6556

[PRD] DATABASE RECORD: 239085 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/29/90
INITIAL DATE: 01/29/90
ITEM NUMBER: D9K DATE LAST CHANGED: 11/29/06
SECTION: 5300 TIME LAST CHANGED: 13:56:47

REQUESTER: HSFS
TEST CODE: EAFB S51C13 STSALL WSSH

ASSOCIATED DOC: 20026S 20027S
TRACKING NO. KING2001 L3615 R109-21 R2809
PRIORITY: MANDATORY
RATIONALE: REQUIRED TO COORDINATE DoD CONTINGENCY SUPPORT.

1. TYPE/ITEM
   SERVICE: PROVIDE OPERATING POSITION FOR PERSONNEL IN
   CONVOY COMMANDER VEHICLE AT EAFB (1 POSITION)
   AND WSSH (1 POSITION).
2. RA OR SA: SA
3. DATES, AMTS.
   OR CHECK FOR
   REQ'D ITEM/
   SERVICE:
4. PURPOSE/REMARKS/
   SPEC. INSTRUCT: PROVIDE OPERATING POSITION FOR ON-SCENE COMMANDER.

   TECH CONTACT: (D) DDMS-0/321-494-5116

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: PH-L USK-426

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/31/90

CONTINUED

[PRD] DATABASE RECORD: 239085
ITEM NUMBER: D9K

RESPONSE TRACKING: Z3612

[PRD] DATABASE RECORD: 240438 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/19/89
INITIAL DATE: 09/19/89
ITEM NUMBER: K10X DATE LAST CHANGED: 03/22/07
SECTION: 5300 TIME LAST CHANGED: 07:55:20

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L KSC/USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 L3409 R109-21 R2809

1. TYPE/ITEM
   SERVICE: FLUID PUMPING AT DFRC
2. RA OR SA: SA
3. DATES, AMTS.
   OR CHECK FOR
   REQ'D ITEM/
   SERVICE:
4. PURPOSE/REMARKS/
   SPEC. INSTRUCT: PUMP OUT WATER OR NEUTRAL FLUIDS WHICH MAY
   ACCUMULATE IN THE MDD SUMPS.

   TECH CONTACT: KSC/PH-L/DEAN SCHAAF/321 861-9311
   KSC/USK-426/MIKE KUTA/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/25/89
RESPONSE TRACKING: Z3451

[PRD] DATABASE RECORD: 239458 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/19/89
INITIAL DATE: 09/19/89
ITEM NUMBER: K11X DATE LAST CHANGED: 03/22/07

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5300 - SERVICES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 239458
ITEM NUMBER: K11X

SECTION: 5300 TIME LAST CHANGED: 07:58:17

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 L3409 R109-21 R2809
PRIORITY: MANDATORY
RATIONALE: LANDING SUPPORT OPERATIONS AT DFRC.

1. TYPE/ITEM
   SERVICE: AIRCRAFT CARGO HANDLING - DFRC
2. RA OR SA: SA
3. DATES, AMTS.
   OR CHECK FOR
   REQ'D ITEM/
   SERVICE:
4. PURPOSE/REMARKS/
   SPEC. INSTRUCT: LOAD AND UNLOAD GSE CONTAINERS AND MATERIAL
   TRANSPORTED BY AIRCRAFT FOR ORBITER TURNAROUNDS
   AT DFRC.

   TECH CONTACT: KSC/PH-L/DEAN SCHAAF/321 861-9311
   KSC/USK-426/MIKE KUTA/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/25/89
RESPONSE TRACKING: Z3451

[PRD] DATABASE RECORD: 240753 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/19/89
INITIAL DATE: 09/19/89
ITEM NUMBER: K12D DATE LAST CHANGED: 05/30/07
SECTION: 5300 TIME LAST CHANGED: 10:33:14

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5300 - SERVICES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 240753
ITEM NUMBER: K12D

TEST CODE: HAFB STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 L3409 R109-21
PRIORITY: REQUIRED
RATIONALE: REQUIRED FOR WSSH LANDING SUPPORT.

1. TYPE/ITEM
   SERVICE: AIRCRAFT CARGO HANDLING AT HOLLOMAN AFB
2. RA OR SA: SA
3. DATES, AMTS.
   OR CHECK FOR
   REQ'D ITEM/
   SERVICE:
4. PURPOSE/REMARKS/
   SPEC. INSTRUCT: UNLOAD AND LOAD GSE CONTAINERS AND MATERIAL
   TRANSPORTED BY AIRCRAFT FOR ORBITER TURNAROUND.

   TECH CONTACT: KSC/PH-L/LOUIE GARCIA/321 867-6196
   KSC/USK-426/MIKE KUTA/321 861-3890
   DDMS-X/MICHAEL SKAGGS/321 494-5317

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/22/89
RESPONSE TRACKING: Z3451

[PRD] DATABASE RECORD: 241084 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/19/89
INITIAL DATE: 09/19/89
ITEM NUMBER: K13D DATE LAST CHANGED: 05/30/07
SECTION: 5300 TIME LAST CHANGED: 10:40:34

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DODALS DODELS STSALL
TRACKING NO. DB98 KING2001 L3409 R109-21
PRIORITY: REQUIRED
RATIONALE: REQUIRED FOR LANDING SUPPORT AT DOD ALS/ELS.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5300 - SERVICES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 241084
ITEM NUMBER: K13D

1. TYPE/ITEM SERVICE: AIRCRAFT CARGO HANDLING AT DOD ALS/ELS
2. RA OR SA: SA
3. DATES, AMTS. OR CHECK FOR REQ'D ITEM/ SERVICE:
4. PURPOSE/REMARKS/ SPEC. INSTRUCT: UNLOAD AND LOAD GSE CONTAINERS AND MATERIAL TRANSPORTED BY AIRCRAFT FOR ORBITER TURNAROUND.

TECH CONTACT: KSC/PH-L/TIM O'BRIEN/321 861-9303
HSFS-X/MICHAEL SKAGGS/321-494-5317

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/22/89
RESPONSE TRACKING: Z3451

[PRD] DATABASE RECORD: 326032 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/19/89
INITIAL DATE: 09/19/89
ITEM NUMBER: K15X DATE LAST CHANGED: 03/22/07
SECTION: 5300 TIME LAST CHANGED: 07:58:46

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 L3409 R109-21
PRIORITY: MANDATORY
RATIONALE: REQUIRED TO MEET OPERATIONAL REQUIREMENTS.

1. DESCRIPTION: MAINTENANCE RECORDS-DFRC

RECORD MAINTENANCE PERFORMED AND PROVIDE DOCUMENTS FOR CONFIGURATION CHANGES TO KSC PROVIDED CONVOY GSE REMAINING AT DFRC.

CONTINUED

[PRD] DATABASE RECORD: 326032
ITEM NUMBER: K15X

TECH CONTACT: KSC/USK-426/MIKE KUTA//321-861-3980
KSC/PH-L/DENNY GAGEN/321 861-9301

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/25/89
RESPONSE TRACKING: Z3451

[PRD] DATABASE RECORD: 326526 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/19/89
INITIAL DATE: 09/19/89
ITEM NUMBER: K16Z DATE LAST CHANGED: 11/29/06
SECTION: 5300 TIME LAST CHANGED: 14:09:47

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 L3409 R109-21
PRIORITY: REQUIRED
RATIONALE: REQUIRED TO MEET OPERATIONAL REQUIREMENTS.

1. DESCRIPTION: MAINTENANCE RECORDS-WSSH

RECORD MAINTENANCE PERFORMED AND PROVIDE DOCUMENTS FOR
CONFIGURATION CHANGES TO KSC PROVIDED GSE REMAINING
AT WSSH.

TECH CONTACT: KSC/PH-L/LOUIE GARCIA/321 867-6196
KSC/USK-426/MIKE KUTA/321 861-3890

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/29/89
RESPONSE TRACKING: Z26146 Z3451

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5300 - SERVICES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 326526
ITEM NUMBER: K16Z

[PRD] DATABASE RECORD: 5350 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/19/89
INITIAL DATE: 11/14/85
ITEM NUMBER: K18X DATE LAST CHANGED: 03/22/07
SECTION: 5300 TIME LAST CHANGED: 07:59:45

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB S61B01 STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 L3409 R109-21 R2809
PRIORITY: REQUIRED
RATIONALE: REQUIRED FOR DFRC LANDING SUPPORT.

1. DESCRIPTION: CONEX STORAGE CONTAINER - DFRC

PROVIDE ONE STANDARD CONEX STORAGE CONTAINER INSIDE HAZARDOUS AREA, ADJACENT TO THE MDD AT DFRC ON A CONTINUOUS BASIS. THIS CONTAINER WILL BE USED TO STORE MISCELLANEOUS EQUIPMENT IN AND MUST BE LOCKABLE. THIS CONTAINER WILL BE REQUIRED UNTIL SHUTTLE LANDINGS ARE TERMINATED AT DFRC.

USA ON SITE CONTACT: D. MAINE/661-276-3277 (AT DFRC)
KSC CONTACT: KSC/USK-426/MIKE KUTA/321-861-3890
KSC/PH-L/DEAN SCHAAF/321 861-9311

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/25/89
RESPONSE TRACKING: Z3451

[PRD] DATABASE RECORD: 522443 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/19/93
INITIAL DATE: 02/19/93
ITEM NUMBER: K25D DATE LAST CHANGED: 05/30/07
SECTION: 5300 TIME LAST CHANGED: 10:33:23

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5300 - SERVICES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 522443
ITEM NUMBER: K25D

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DODALS STSALL ZARAGOZA

ASSOCIATED DOC: 20057S
TRACKING NO. DB98 KING2001 L5527 R109-21
PRIORITY: MANDATORY
RATIONALE: LANDING SUPPORT AT ZARAGOZA

1. DESCRIPTION: GENERATOR SUPPORT - ZARAGOZA

A. PROVIDE FOUR 30 KW GENERATORS AT THE TWO MSBLS SHELTERS. TWO WILL BE PLACED AT THE AZIMUTH SHELTER AND TWO AT THE ELEVATION SHELTER.

B. PROVIDE FOUR 72KW (400HZ) GENERATORS FOR XENON LIGHTING WHEN THIS SITE IS REQUIRED TO SUPPORT NIGHTTIME LANDING OPPORTUNITIES.

C. PROVIDE INFIELD REFUELING CAPABILITY FOR THE FOUR 30 KW AND FOUR 72 KW GENERATORS USED DURING SUPPORT OF THIS SITE.

COORD: KSC/USK-426/MIKE KUTA/321 861-3890
KSC/PH-L/TOM FRIERS/321 861-9348

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/04/93
RESPONSE TRACKING: Z5566 Z5718

[PRD] DATABASE RECORD: 522444 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/25/93
INITIAL DATE: 02/19/93
ITEM NUMBER: K26D DATE LAST CHANGED: 05/31/07
SECTION: 5300 TIME LAST CHANGED: 09:21:14

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DODALS MORON STSALL ZARAGOZA

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5300 - SERVICES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 522444
ITEM NUMBER: K26D

ASSOCIATED DOC: 20029S 20057S
TRACKING NO. DB98 KING2001 L5527 L5721 R109-21
PRIORITY: MANDATORY
RATIONALE: LANDING SUPPORT AT ZARAGOZA AND MORON.

1. DESCRIPTION: SHIPMENTS INBOUND /OUTBOUND - ZARAGOZA/MORON

A. PROVIDE TIMELY SHIPPING/RECEIVING SUPPORT.

PROVIDE COPIES OF SHIPPING DOCUMENTS TO USA TRANSPORTATION WHICH INCLUDE THE FOLLOWING INFORMATION:

1. DESCRIPTION OF THE ITEMS
2. DATE OF DEPARTURE FROM ZARAGOZA AIR BASE (ZAB) TO MORON AIR BASE
3. DATE OF DEPARTURE FROM MORON AIR BASE (MAB) TO KSC
4. DOD TCN NUMBER

B. PROVIDE A SHIPPING/RECEIVING AREA AT ZAB/MAB FOR PROCESSING/STAGING SHIPMENTS.

TECHNICAL CONTACT: KSC/USK-426/MIKE KUTA/321 861-3890 (ZARAGOZA/MORON)
KSC/PH-L/TIM O'BRIEN/321 861-9303
HSFS-0/MICHAEL SKAGGS/321-494-5317

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/661 276-3425

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 05/28/93
RESPONSE:
MORON AB TRANSPORTATION MANAGEMENT OFFICE (TMO) PROVIDES SHIPPING/ RECEIVING ASSISTANCE TO NASA/USA AS REQUIRED. TMO WILL STORE ITEMS UNTIL DELIVERY TO NASA OR TRANSFER TO THE NASA WAREHOUSE.

RESPONSE TRACKING: Z5566 Z5708 Z5731

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5300 - SERVICES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 590059 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/27/06
INITIAL DATE: 11/27/06
ITEM NUMBER: KT27K DATE LAST CHANGED: 01/04/07
SECTION: 5300 TIME LAST CHANGED: 09:21:46

REQUESTER: KSC JSC
SUBREQUESTER: KSC/OC
TEST CODE:
TRACKING NO. R0611-7

1. TYPE/ITEM SERVICE: NASA QUALITY
2. RA OR SA: SA
3. DATES, AMTS. OR CHECK FOR REQ'D ITEM/ SERVICE: ON CALL (L-5 TO L-2 DAYS)
4. PURPOSE/REMARKS/ SPEC. INSTRUCT: PROVIDE NASA QUALITY SUPPORT FOR PRE-LAUNCH T-RAD PROCESSING.

POC: KSC/SA-C2/STEVE BRUNELLE/321 861-6587

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: SA-C2

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/27/06

[PRD] DATABASE RECORD: 590060 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/27/06
INITIAL DATE: 11/27/06
ITEM NUMBER: KT28K DATE LAST CHANGED: 01/11/07
SECTION: 5300 TIME LAST CHANGED: 12:17:06

REQUESTER: KSC JSC
SUBREQUESTER: KSC/OC
TEST CODE: T-RAD
TRACKING NO. R0611-7

1. TYPE/ITEM SERVICE: NASA SAFETY
2. RA OR SA: SA

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5300 - SERVICES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 590060
ITEM NUMBER: KT28K

3. DATES, AMTS.
   OR CHECK FOR
   REQ'D ITEM/
   SERVICE: ON CALL (L-5 TO L-2 DAYS)
4. PURPOSE/REMARKS/
   SPEC. INSTRUCT: PROVIDE NASA SAFETY SUPPORT FOR PRE-LAUNCH T-RAD PROCESSING.

   POC: KSC/SA-C1/JEFF BEACH/321 867-6551

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: SA-C1

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/11/07

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5310 - SERVICES - ADMINISTRATIVE, PERSONNEL, AND OFFICE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 342858 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/13/02
INITIAL DATE: 09/19/89
ITEM NUMBER: K2X DATE LAST CHANGED: 03/22/07
SECTION: 5310 TIME LAST CHANGED: 08:00:16

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB S51C07 STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 L3409 R109-52 R2809
SCRUB06
PRIORITY: REQUIRED
RATIONALE: ADMINISTRATIVE SUPPORT

1. TYPE/ITEM
   SERVICE: ADMINISTRATIVE SERVICES AT DFRC
2. RA OR SA: SA
3. DATES, AMTS.
   OR CHECK FOR
   REQ'D ITEM/
   SERVICE:
4. PURPOSE/REMARKS/
   SPEC. INSTRUCT: PROVIDE THE FOLLOWING ADMINISTRATIVE SERVICES AT DFRC:

   A. MAIL AND MESSAGE SERVICE
   B. GRAPHICS SUPPORT (REQUIREMENTS TBD)
   C. SELF-SERVICE COPY MACHINES AT THE FOLLOWING LOCATIONS:
      1. ORBITER COMPLEX (1 EA.)
      2. ORBITER HANGAR (1 EA.)

   TECH CONTACT: KSC/DEAN SCHAAF/PH-L/321 861-9311
   KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/13/02
RESPONSE TRACKING: Z3451

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5310 - SERVICES - ADMINISTRATIVE, PERSONNEL, AND OFFICE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 365306 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/19/89
INITIAL DATE: 09/19/89
ITEM NUMBER: K4Z DATE LAST CHANGED: 12/13/06
SECTION: 5310 TIME LAST CHANGED: 10:14:24

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 L3409 R109-52 SCRUB06
PRIORITY: REQUIRED
RATIONALE: ADMINISTRATIVE SUPPORT

1. TYPE/ITEM SERVICE: MAIL DELIVERY AT WHITE SANDS SPACE HARBOR
2. RA OR SA: SA
3. DATES, AMTS. OR CHECK FOR REQ'D ITEM/ SERVICE:
4. PURPOSE/REMARKS/ SPEC. INSTRUCT: PROVIDE DAILY OFFSITE MAIL DELIVERY SERVICE DURING ORBITER TURNAROUND OPERATIONS.

TECHNICAL CONTACT: KSC/LOUIE GARCIA/PH-L/321 867-6196
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/29/89
RESPONSE TRACKING: Z26146 Z3451

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5311 - SERVICES - FIRE AND RESCUE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD:	186134	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	LLS	APPROVAL DATE:	09/29/89
		INITIAL DATE:	09/29/89
ITEM NUMBER:	K1E	DATE LAST CHANGED:	11/30/06
SECTION:	5311	TIME LAST CHANGED:	06:26:21

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 L3421 R109-69 R2809 R2814
PRIORITY: MANDATORY
RATIONALE: FIRE SAFETY REQUIREMENT

1. TYPE/ITEM SERVICE: FIRE SERVICE SUPPORT AT DFRC
   SERVICE: SA
2. RA OR SA:
3. DATES, AMTS. OR CHECK FOR REQ'D ITEM/ SERVICE:
4. PURPOSE/REMARKS/ SPEC. INSTRUCT: PROVIDE FIRE PROTECTION SERVICES FOR NASA FACILITIES AND EQUIPMENT. FIRE SERVICE PERSONNEL AND EQUIPMENT ARE REQUIRED AT OPERATIONAL AREAS DURING HAZARDOUS OPERATIONS CONDUCTED AT DFRC. APPROX. 5 DAYS CONTINUOUS COVERAGE REQUIRED AFTER ORBITER LANDING.

   DOD FIRE/RESCUE SUPPORT PERSONNEL ARE REQUIRED TO BE TRAINED AND EQUIPPED TO RESCUE NON-ASTRONAUT PERSONNEL FROM:

   A. THE ORBITER CREW MODULE DURING ORBITER TOWING OR OTHER SCHEDULED CLOSED-HATCH OPERATIONS.
   B. ORBITER CONFINED SPACES DURING TURNAROUND OPERATIONS, INCLUDING THE CREW MODULE, MIDBODY AREA, AND THE AFT COMPARTMENT.
   C. SCAPE SUITS DURING SCHEDULED SCAPE OPERATIONS WHEN A PERSON COULD BECOME INCAPACITATED. KSC SAFETY AND LIFE SUPPORT PERSONNEL WILL BRIEF DOD

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5311 - SERVICES - FIRE AND RESCUE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 186134
ITEM NUMBER: K1E

FIRE/RESCUE PERSONNEL ON SITE BEFORE
THE START OF EACH SCAPE OPERATION.

TECH CONTACT: KSC/PH-L/DEAN SCHAAF/321 861-9311
KSC/USK-426/MIKE KUTA/321 861-3980

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/13/89
RESPONSE TRACKING: Z2805 Z3484

[PRD] DATABASE RECORD: 186758 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K3DE DATE LAST CHANGED: 05/30/07
SECTION: 5311 TIME LAST CHANGED: 10:33:10

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB S5022.200 STSALL

ASSOCIATED DOC: 20026S 25022S
TRACKING NO. DB98 KING2001 L4314 R109-69 R2809
R2824 R2829 SCRUB06
PRIORITY: MANDATORY
RATIONALE: FIRE SAFETY REQUIREMENT

1. TYPE/ITEM
SERVICE: FIRE RESCUE AT EAFB/DFRC
2. RA OR SA: SA
3. DATES, AMTS.
OR CHECK FOR
REQ'D ITEM/
SERVICE:
4. PURPOSE/REMARKS/
SPEC. INSTRUCT: PROVIDE PERSONNEL AND EQUIPMENT AT EAFB/DFRC TO
PERFORM RESCUE OF PERSONNEL AND EXTINGUISH FIRE
INVOLVING ORBITER ON AND OFF LANDING RUNWAY

CONTINUED

[PRD] DATABASE RECORD: 186758
ITEM NUMBER: K3DE

INCIDENTS. THE PERSONNEL MUST BE PROPERLY
PROTECTED FOR CONDUCTING OPERATIONS IN A TOXIC
ENVIRONMENT (MMH, N204, ETC.) MINIMUM.
SUPPORT REQUIRED INCLUDES THE FOLLOWING:
1. THREE MAJOR PIECES OF APPARATUS AND A RESCUE/
UTILITY UNIT FOR PERSONNEL RESCUE AND FIRE
EXTINGUISHMENT DURING ORBITER LANDING.
2. ONE MAJOR PIECE OF FIRE APPARATUS AND CREW
TO SUPPORT ORBITER SAFING. (EAFB)

TECH CONTACT: KSC/PH-L/DEAN SCHAAF/321 861-9311
KSC/USK-426/MIKE KUTA/321 861-3980
DDMS-O/FREDDIE MCKINNEY/321-494-5116

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 05/31/94
RESPONSE:
FIREFIGHTING VEHICLES/FORCES MAY NOT BE ABLE TO
RESPOND TO AN OFF-RUNWAY MISHAP DUE TO LOCAL TERRAIN/CONDITIONS.

RESPONSE TRACKING: Z2822 Z4340 Z6556

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/01/91
RESPONSE TRACKING: Z2822 Z4340

[PRD] DATABASE RECORD: 188108 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K7D DATE LAST CHANGED: 05/30/07
SECTION: 5311 TIME LAST CHANGED: 10:33:10

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DFRC EAFB S0026.100 S0026.200

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5311 - SERVICES - FIRE AND RESCUE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 188108
ITEM NUMBER: K7D

S0026.300 STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 R109-69 R2809 R2848
SCRUB06
PRIORITY: MANDATORY
RATIONALE: FLIGHT CREW RESCUE

1. TYPE/ITEM
   SERVICE: HATCH INGRESS/EGRESS TOOL A70-0788
   (OR EQUIVALENT) AT EAFB
2. RA OR SA: SA
3. DATES, AMTS.
   OR CHECK FOR
   REQ'D ITEM/
   SERVICE:
4. PURPOSE/REMARKS/
   SPEC. INSTRUCT: PROVIDE ONE TOOL IN EACH HELICOPTER. 2 REQUIRED.
   EQUIVALENT IS 1/2" SQ. DRIVE WITH 10" OR 20" EX.
   AND T HANDLE (KSC PROVIDED).

   TECH CONTACT: KSC/PH-L/DEAN SCHAAF/321 861-9311
   KSC/USK-426/MIKE KUTA/321 861-3980
   DDMS-O/FREDDIE MCKINNEY/321-494-5116

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/18/89
RESPONSE TRACKING: Z2840

[PRD] DATABASE RECORD: 195708 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K10E DATE LAST CHANGED: 11/30/06
SECTION: 5311 TIME LAST CHANGED: 06:47:21

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5311 - SERVICES - FIRE AND RESCUE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 195708
ITEM NUMBER: K10E

TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 R109-69 R2814
PRIORITY: MANDATORY
RATIONALE: SAFETY - REQUIRED FOR WSSH LANDING SUPPORT.

1. TYPE/ITEM
   SERVICE: INSTITUTIONAL FIRE PROTECTION AT WHITE SANDS SPACE HARBOR
2. RA OR SA: SA
3. DATES, AMTS. OR CHECK FOR REQ'D ITEM/ SERVICE:
4. PURPOSE/REMARKS/
   SPEC. INSTRUCT: PROVIDE FIRE PROTECTION SERVICES FOR NASA FACILITIES AND EQUIPMENT AT WSSH (INCLUDES FIRE EXTINGUISHERS FOR EACH FACILITY AND ROUTINE FIRE INSPECTIONS).

   TECH CONTACT: KSC/PH-L/LOUIE GARCIA/321 867-6196
   KSC/USK-426/MIKE KUTA/321 861-3980

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: WSMR

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/19/89
RESPONSE TRACKING: Z2720 Z2805

[PRD] DATABASE RECORD: 195978 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K11D DATE LAST CHANGED: 05/30/07
SECTION: 5311 TIME LAST CHANGED: 10:33:10

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL WSSH

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5311 - SERVICES - FIRE AND RESCUE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 195978
ITEM NUMBER: K11D

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 R109-69 R2848 SCRUB06
PRIORITY: REQUIRED
RATIONALE: TERTIARY LANDING SITE BECOMES MANDATORY FOR LANDING AT WSSH.

1. TYPE/ITEM SERVICE: FIRE SUPPRESSION/RESCUE AT WHITE SANDS SPACE HARBOR
2. RA OR SA: SA
3. DATES, AMTS. OR CHECK FOR REQ'D ITEM/ SERVICE:
4. PURPOSE/REMARKS/ SPEC. INSTRUCT: PROVIDE PERSONNEL AND EQUIPMENT AT WSSH TO PERFORM RESCUE OF PERSONNEL AND EXTINGUISH FIRE INVOLVING ORBITER ON AND OFF LANDING RUNWAY INCIDENTS. THE PERSONNEL MUST BE PROPERLY PROTECTED FOR CONDUCTING OPERATIONS IN A TOXIC ENVIRONMENT (MMH, N204, ETC.). MINIMUM SUPPORT REQUIRED INCLUDES THE FOLLOWING:

   1. THREE MAJOR PIECES OF APPARATUS AND A RESCUE/ UTILITY UNIT FOR PERSONNEL RESCUE AND FIRE EXTINGUISHMENT DURING ORBITER LANDING.
   2. ONE MAJOR PIECE OF FIRE APPARATUS AND CREW TO SUPPORT ORBITER SAFING.

   TECH CONTACT: KSC/PH-L/LOUIE GARCIA/321 867-6196
   KSC/USK-426/MIKE KUTA/321 861-3890
   DDMS-O/FREDDIE MCKINNEY/321-494-5116

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 08/08/94
RESPONSE:

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5311 - SERVICES - FIRE AND RESCUE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 195978
ITEM NUMBER: K11D

FIREFIGHTING VEHICLES/FORCES MAY NOT BE ABLE TO
RESPOND TO AN OFF-RUNWAY MISHAP DUE TO LOCAL TERRAIN/CONDITIONS.

RESPONSE TRACKING: Z2840 Z6817

[PRD] DATABASE RECORD: 196251
DOCUMENT ID: LLS
ITEM NUMBER: K12D
SECTION: 5311

REQUIREMENT STATUS: APPROVED
APPROVAL DATE: 05/10/94
INITIAL DATE: 09/29/89
DATE LAST CHANGED: 05/30/07
TIME LAST CHANGED: 10:33:10

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DODALS DODELS STSALL
TRACKING NO. DB98 KING2001 L3421 R109-69 R2848
R6530 SCRUB06

1. TYPE/ITEM SERVICE: FIRE PROTECTION - DOD ALS/ELS
2. RA OR SA: SA
3. DATES, AMTS. OR CHECK FOR REQ'D ITEM/ SERVICE:
4. PURPOSE/REMARKS/ SPEC. INSTRUCT: PROVIDE ONE MAJOR PIECE OF FIRE SUPPRESSION APPARATUS AND CREW AT DESIGNATED WORK AREAS DURING SCHEDULED ORBITER SAFING AND OTHER HAZARDOUS ORBITER/PAYLOAD GROUND TURNAROUND OPERATIONS. TO PROVIDE A FIRE SUPPRESSION AND HAZARDOUS FLUIDS SPILL WASHDOWN CAPABILITY. AT THOSE TIMES WHEN FIRE PROTECTION RESOURCES ARE NOT AVAILABLE AT THE ORBITER, PROVIDE A FIRE GUARD AT THE ORBITER PARKING AREA. THE FIRE GUARD WILL SUMMON FIRE PROTECTION RESOURCE IF NEEDED.

DOD FIRE/RESCUE SUPPORT PERSONNEL ARE REQUIRED TO BE TRAINED AND EQUIPPED TO RESCUE NON-ASTRONAUT PERSONNEL FROM:

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5311 - SERVICES - FIRE AND RESCUE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 196251
ITEM NUMBER: K12D

A. THE ORBITER CREW MODULE DURING ORBITER TOWING OR OTHER SCHEDULED CLOSED-HATCH OPERATIONS.
B. ORBITER CONFINED SPACES DURING TURNAROUND OPERATIONS, INCLUDING THE CREW MODULE, MIDBODY AREA, AND THE AFT COMPARTMENT.
C. SCAPE SUITS DURING SCHEDULED SCAPE OPERATIONS WHEN A PERSON COULD BECOME INCAPACITATED. KSC LIFE SUPPORT PERSONNEL WILL BRIEF DOD FIRE/RESCUE PERSONNEL ON SITE BEFORE THE START OF EACH SCAPE OPERATION.

NOTE: SEE REQUIREMENTS FOR NASA PROVIDED TRAINING UNDER LLS VOLUME 1, SECTION 5302, ITEM NO. D12.1K.

TECH CONTACT: KSC/PH-L/TIM O'BRIEN/321 861-9303
KSC/USK-426/MIKE KUTA/321 861-3890
DDMS-O/FREDDIE MCKINNEY/321 494-5116

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/10/94
RESPONSE TRACKING: Z2840 Z3466 Z6522

[PRD] DATABASE RECORD: 22241 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/23/90
INITIAL DATE: 05/23/90
ITEM NUMBER: D12.1K DATE LAST CHANGED: 11/30/06
SECTION: 5311 TIME LAST CHANGED: 06:55:27

REQUESTER: HSFS
SUBREQUESTER: DDMS
TEST CODE: DODALS DODELS STSALL
TRACKING NO. KING2001 L3550 R109-69 SCRUB06
PRIORITY: MANDATORY
RATIONALE: CONTINGENCY SUPPORT, TRAINING/EQUIPMENT REQUIRED FOR TURNAROUND PERSONNEL RESCUE.

1. DESCRIPTION: FIRE/RESCUE TRAINING AND EQUIPMENT

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5311 - SERVICES - FIRE AND RESCUE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 22241
ITEM NUMBER: D12.1K

FOLLOWING AN ORBITER LANDING AT A DOD ALS OR ELS, PROVIDE TRAINING AND EQUIPMENT FOR DOD FIRE/RESCUE PERSONNEL TO SUPPORT RESCUE OF NON-ASTRONAUT PERSONNEL FROM ORBITER CONFINED SPACES DURING TURNAROUND OPERATIONS, INCLUDING THE CREW MODULE, MIDBODY AREA, AND THE AFT COMPARTMENT.

TECHNICAL CONTACT: KSC/PH-L/TIM O'BRIEN/321 861-9303
KSC/USK-426/MIKE KUTA/321 861-3890
DDMS-O/FREDDIE MCKINNEY/321 494-5116

REFERENCE: LLS SECT 5311, ITEM K12D, DBR 196251.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-FF-D3 SGS-267 SGS-322
SGS-347

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/25/90
RESPONSE TRACKING: Z3559

[PRD] DATABASE RECORD: 196472 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/10/94
INITIAL DATE: 09/29/89
ITEM NUMBER: K13D DATE LAST CHANGED: 05/30/07
SECTION: 5311 TIME LAST CHANGED: 10:33:10

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: S0027.001 STSALL WSSH

ASSOCIATED DOC: 20027S 25044S
TRACKING NO. DB98 KING2001 L3421 R109-69 R2848
R6530 SCRUB06
PRIORITY: REQUIRED
RATIONALE: TERTIARY LANDING SITE. BECOMES MANDATORY FOR LANDING AT WSSH.

1. TYPE/ITEM
SERVICE: CONTINGENCY FIRE PROTECTION AT WHITE SANDS SPACE HARBOR

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5311 - SERVICES - FIRE AND RESCUE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 196472
ITEM NUMBER: K13D

2. RA OR SA: SA
3. DATES, AMTS. OR CHECK FOR REQ'D ITEM/ SERVICE:
4. PURPOSE/REMARKS/ SPEC. INSTRUCT: FIRE SERVICE PERSONNEL AND EQUIPMENT ARE REQUIRED AT OPERATIONAL AREAS DURING HAZARDOUS OPERATIONS. PROVIDE ORBITER POST-LANDING FIRE GUARD. APPROX. 5 DAYS CONTINUOUS COVERAGE REQUIRED AFTER ORBITER LANDING.

DOD FIRE/RESCUE SUPPORT PERSONNEL ARE REQUIRED TO BE TRAINED AND EQUIPPED TO RESCUE NON-ASTRONAUT PERSONNEL FROM:

A. THE ORBITER CREW MODULE DURING ORBITER TOWING OR OTHER SCHEDULED CLOSED-HATCH OPERATIONS.
B. ORBITER CONFINED SPACES DURING TURNAROUND OPERATIONS, INCLUDING THE CREW MODULE, MIDBODY AREA, AND THE AFT COMPARTMENT.
C. SCAPE SUITS DURING SCHEDULED SCAPE OPERATIONS WHEN A PERSON COULD BECOME INCAPACITATED. KSC SAFETY AND LIFE SUPPORT PERSONNEL WILL BRIEF DOD FIRE/RESCUE PERSONNEL ON SITE BEFORE THE START OF EACH SCAPE OPERATION.

NOTE: SEE REQUIREMENT FOR NASA PROVIDED TRAINING UNDER LLS VOLUME 1, SECTION 5311, ITEM NO. D12.1K.

TECH CONTACT: KSC/PH-L/LOUIE GARCIA/321 867-6196
KSC/USK-426/MIKE KUTA/321 861-3890
DDMS-O/FREDDIE MCKINNEY/321-494-5116

RATIONALE: (R) - TERTIARY LANDING SITE. BECOMES MANDATORY FOR LANDING AT WSSH.

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5311 - SERVICES - FIRE AND RESCUE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 196472
ITEM NUMBER: K13D

RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/10/94
RESPONSE TRACKING: Z2840 Z3466 Z6522

[PRD] DATABASE RECORD: 196891 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K14D DATE LAST CHANGED: 05/30/07
SECTION: 5311 TIME LAST CHANGED: 10:33:10

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DODALS STSALL
TRACKING NO. DB98 KING2001 R109-69 R2848 SCRUB06
PRIORITY: MANDATORY
RATIONALE: FIRE SAFETY REQUIREMENT.

1. TYPE/ITEM
   SERVICE: FIRE AND EGRESS SUPPORT - DOD ALS
2. RA OR SA: SA
3. DATES, AMTS.
   OR CHECK FOR
   REQ'D ITEM/
   SERVICE:
4. PURPOSE/REMARKS/
   SPEC. INSTRUCT: THE FOLLOWING FIRE AND EGRESS SUPPORT IS REQUIRED
   FOR DOD ALS'S:
   1. THREE MAJOR PIECES OF FIRE APPARATUS AND A
      RESCUE/UTILITY UNIT FOR PERSONNEL RESCUE AND
      FIRE EXTINGUISHMENT DURING ORBITER LANDING.
   2. PROTECTIVE CLOTHING AND SELF-CONTAINED
      BREATHING APPARATUS.
   3. ONE MAJOR PIECE OF FIRE APPARATUS AND CREW TO
      SUPPORT ORBITER SAFING.
   4. PROVIDE CAPABILITY TO EGRESS FLIGHT CREW
      MEMBERS.

   TECH CONTACT: KSC/PH-L/TIM O'BRIEN/321 861-9303
   KSC/USK-426/MIKE KUTA/321 861-3890

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5311 - SERVICES - FIRE AND RESCUE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 196891
ITEM NUMBER: K14D

DDMS-O/FREDDIE MCKINNEY/321 494-5116

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 05/31/94
RESPONSE:
FIREFIGHTING VEHICLES/FORCES MAY NOT BE ABLE TO
RESPOND TO AN OFF-RUNWAY MISHAP DUE TO LOCAL TERRAIN/CONDITIONS.

RESPONSE TRACKING: Z2840 Z6556

[PRD] DATABASE RECORD: 197221 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/02/94
INITIAL DATE: 05/18/89
ITEM NUMBER: K15D DATE LAST CHANGED: 05/30/07
SECTION: 5311 TIME LAST CHANGED: 10:33:10

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DODALS DODELS FERRY STSALL

ASSOCIATED DOC: 25022S
TRACKING NO. DB98 KING2001 L4314 R109-69 R2848
R6525 SCRUB06
PRIORITY: MANDATORY
RATIONALE: FIRE SAFETY REQUIREMENT FOR FERRY FLIGHT.

1. TYPE/ITEM
   SERVICE: FIRE/CRASH/RESCUE SUPPORT - DOD FERRY FLIGHT
   LANDING SITES
2. RA OR SA:
3. DATES, AMTS.
   OR CHECK FOR
   REQ'D ITEM/
   SERVICE:
4. PURPOSE/REMARKS/
   SPEC. INSTRUCT: ALL ORBITER/SCA FERRY FLIGHTS REQUIRE

CONTINUED

[PRD] DATABASE RECORD: 197221
ITEM NUMBER: K15D

PREPOSITIONED FIRE/CRASH/RESCUE FORCES IN THE IMMEDIATE AREA OF THE RUNWAY. THREE MAJOR PIECES OF FIREFIGHTING APPARATUS (WITH CREW) ARE REQUIRED TO STANDBY FOR ENGINE START, TAXI, TAKE-OFF, AND LANDING. APPLICABLE AT ALL DOD AIRFIELDS. REF. ANNEX E, DDMS OPERATIONS PLAN.

TECH CONTACT: KSC/PH-L/DENNY GAGEN/321 861-9301
KSC/USK-426/MIKE KUTA/321 861-3980
DDMS-O/FREDDIE MCKINNEY/321 494-5116

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/02/94
RESPONSE TRACKING: Z2840 Z4340 Z6511

[PRD] DATABASE RECORD: 197982 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K17D DATE LAST CHANGED: 05/30/07
SECTION: 5311 TIME LAST CHANGED: 10:33:10

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DODALS STSALL
TRACKING NO. DB98 KING2001 R109-69 R2848
PRIORITY: MANDATORY
RATIONALE: FLIGHT CREW RESCUE

1. TYPE/ITEM SERVICE: HATCH INGRESS/EGRESS TOOL (DOD ALS)
2. RA OR SA: SA
3. DATES, AMTS. OR CHECK FOR REQ'D ITEM/ SERVICE:
4. PURPOSE/REMARKS/ SPEC. INSTRUCT: PROVIDE 1/2" SQ. DRIVE WITH 10" OR 20" EX. AND T HANDLE.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5311 - SERVICES - FIRE AND RESCUE

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[PRD] DATABASE RECORD: 197982
ITEM NUMBER: K17D

TECH CONTACT: KSC/PH-L/DEAN SCHAAF/321 861-9311
DDMS-O/FREDDIE MCKINNEY/321-494-5116

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
SUBSUPPLIER: DDMS-O
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/12/89
RESPONSE TRACKING: Z2840

[PRD] DATABASE RECORD: 198269 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/02/89
INITIAL DATE: 06/02/89
ITEM NUMBER: K18E DATE LAST CHANGED: 11/30/06
SECTION: 5311 TIME LAST CHANGED: 07:16:29

REQUESTER: KSC
SUBREQUESTER: KSC/TA-G
TEST CODE: CCAFS STSALL
TRACKING NO. DB98 KING2001 R109-69 R2830
PRIORITY: MANDATORY
RATIONALE: FIRE SAFETY REQUIREMENTS

1. TYPE/ITEM
   SERVICE: FIRE
2. RA OR SA: SA
3. DATES, AMTS.
   OR CHECK FOR
   REQ'D ITEM/
   SERVICE:
4. PURPOSE/REMARKS/
   SPEC. INSTRUCT: PROVIDE FIRE SERVICES TO KSC ASSIGNED FACILITIES
   AND/OR OPERATIONS CONDUCTED ON CCAFS IN ACCORDANCE
   WITH EXISTING KSC/ER AGREEMENTS.

   TECH CONTACT: KSC/TA-G/MICHAEL STEVENS/321 867-3795

CONTINUED

[PRD] DATABASE RECORD: 198269
ITEM NUMBER: K18E

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/05/89
RESPONSE TRACKING: Z2823

[PRD] DATABASE RECORD: 200397 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K24EK DATE LAST CHANGED: 11/30/06
SECTION: 5311 TIME LAST CHANGED: 08:15:51

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 R109-69 R2809
PRIORITY: MANDATORY
RATIONALE: LANDING SUPPORT AT DFRC.

1. TYPE/ITEM
   SERVICE: SCOTT AIRPACKS (30 MIN) AT DFRC
2. RA OR SA:
3. DATES, AMTS.
   OR CHECK FOR
   REQ'D ITEM/
   SERVICE:
4. PURPOSE/REMARKS/
   SPEC. INSTRUCT: DFRC OBTAIN FROM KSC AND SERVICE 10 SCOTT AIRPACK UNITS FOR SUPPORT OF HAZARDOUS OPERATIONS (FREON 21 SERVICING, ETC.) DURING SITE ACTIVATION, REHEARSAL AND ORBITER DESERVICING (RECHARGED BY AFFTC FIRE DEPT.).

   TECH CONTACT: KSC/PH-L/DEAN SCHAAF/321 861-9311
   KSC/USK-426/MIKE KUTA/321 861-3980

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5311 - SERVICES - FIRE AND RESCUE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 200397
ITEM NUMBER: K24EK

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/19/89
RESPONSE TRACKING: Z2805

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-TA-E SGS-267 SGS-347

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/18/89
RESPONSE TRACKING: Z2805

[PRD] DATABASE RECORD: 201913 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/15/02
INITIAL DATE: 04/28/88
ITEM NUMBER: K28DK DATE LAST CHANGED: 05/30/07
SECTION: 5311 TIME LAST CHANGED: 10:33:11

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 R109-69 R26151 R2691
SCRUB06
PRIORITY: MANDATORY
RATIONALE: SAFETY - REQUIRED FOR WSSH LANDING/RESCUE SUPPORT.

1. TYPE/ITEM
   SERVICE: PROTECTIVE BREATHING EQUIP. FOR WSSH RESCUE OPS.
2. RA OR SA:
3. DATES, AMTS.
   OR CHECK FOR
   REQ'D ITEM/
   SERVICE:
4. PURPOSE/REMARKS/
   SPEC. INSTRUCT: OBTAIN 8 ARAP WITH ASTRONAUT SUIT (MANIFOLD

CONTINUED

[PRD] DATABASE RECORD: 201913
ITEM NUMBER: K28DK

HOSE) ADAPTER AND 5 ARAP MASKS WITH
COMMUNICATION INTERFACE FROM KSC FOR REHEARSAL
AND ORBITER LANDING SUPPORT AT WSSH.

TECH CONTACT: KSC/PH-L/LOUIE GARCIA/321 867-6196
KSC/USK-426/MIKE KUTA/321 861-3890
DDMS-O/FREDDIE MCKINNEY/321 494-5116

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/28/88

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-TA-G SGS-322 SGS-347

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/15/02
RESPONSE TRACKING: Z26221

[PRD] DATABASE RECORD: 202561 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/28/88
INITIAL DATE: 04/28/88
ITEM NUMBER: K30DK DATE LAST CHANGED: 06/04/07
SECTION: 5311 TIME LAST CHANGED: 11:16:31

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB S5022.100 STSALL

ASSOCIATED DOC: 20026S 25022S
TRACKING NO. DB98 KING2001 R109-69 R26105 R26151
R2691 R2809
PRIORITY: MANDATORY
RATIONALE: LANDING SUPPORT AT DFRC.

1. TYPE/ITEM
SERVICE: PROTECTIVE BREATHING EQUIP. FOR DFRC.
2. RA OR SA:
3. DATES, AMTS.
OR CHECK FOR

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5311 - SERVICES - FIRE AND RESCUE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 202561
ITEM NUMBER: K30DK

REQ'D ITEM/
SERVICE:
4. PURPOSE/REMARKS/
SPEC. INSTRUCT: OBTAIN 8 DOUBLE BOTTLE SPARES WITH ASTRONAUT BREATHING AIR ADAPTER AND 5 ARAP MASKS WITH COMMUNICATION INTERFACE FROM KSC FOR REHEARSAL AND ORBITER LANDING SUPPORT AT EAFB.

TECH CONTACT: KSC/PH-L/DEAN SCHAAF/321 861-9311
KSC/USK-426/MIKE KUTA/321 861-3980

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/28/88

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-TA-G SGS-322 SGS-347

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/28/88
RESPONSE TRACKING: Z26221

[PRD] DATABASE RECORD: 202962 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K31D DATE LAST CHANGED: 05/30/07
SECTION: 5311 TIME LAST CHANGED: 10:33:11

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DODALS STSALL
TRACKING NO. DB98 KING2001 R109-69 R2848
PRIORITY: MANDATORY
RATIONALE: PERSONNEL SAFETY

1. TYPE/ITEM
SERVICE: RESUSCITATORS (DOD ALS)
2. RA OR SA: SA
3. DATES, AMTS.
OR CHECK FOR

CONTINUED

[PRD] DATABASE RECORD: 202962
ITEM NUMBER: K31D

REQ'D ITEM/
SERVICE:
4. PURPOSE/REMARKS/
SPEC. INSTRUCT: PROVIDE 2 RESUSCITATORS WITH CARRYING BAG.
USE STANDARD HOST EQUIPMENT.

TECH CONTACT: KSC/PH-L/TIM O'BRIEN/321 861-9303
DDMS-T/321 494-5983

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/12/89
RESPONSE TRACKING: Z2840

[PRD] DATABASE RECORD: 203231 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K32D DATE LAST CHANGED: 05/30/07
SECTION: 5311 TIME LAST CHANGED: 10:33:11

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DODALS STSALL
TRACKING NO. DB98 KING2001 R109-69 R2848
PRIORITY: MANDATORY
RATIONALE: PERSONNEL SAFETY

1. TYPE/ITEM
SERVICE: PROTECTIVE CLOTHING/SELF-CONTAINED RESPIRATORY
PROTECTION AT DOD ALS
2. RA OR SA: SA
3. DATES, AMTS.
OR CHECK FOR
REQ'D ITEM/
SERVICE:
4. PURPOSE/REMARKS/
SPEC. INSTRUCT: PROVIDE ADEQUATE PROTECTIVE CLOTHING AND SELF-

CONTINUED

[PRD] DATABASE RECORD: 203231
ITEM NUMBER: K32D

CONTAINED RESPIRATORY PROTECTION SYSTEM FOR DOD PERSONNEL WHO MUST BE INSIDE THE TOXIC VAPOR CONTROL AREA AT A DOD ALS FOR ORBITER GROUND HANDLING PRIOR TO ARRIVAL OF THE NASA DEPLOYED OPERATIONS TEAM. NASA WILL REIMBURSE DOD FOR PURCHASE OF PROTECTIVE CLOTHING.

TECH CONTACT: KSC/PH-L/TIM O'BRIEN/321 861-9303
KSC/USK-426/MIKE KUTA/321 861-3890
DDMS-O/321-494-5983

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/12/89
RESPONSE TRACKING: Z2840

[PRD] DATABASE RECORD: 204815 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/11/90
INITIAL DATE: 04/11/90
ITEM NUMBER: T37K DATE LAST CHANGED: 11/30/06
SECTION: 5311 TIME LAST CHANGED: 08:26:32

REQUESTER: JSC
SUBREQUESTER: JSC/CA4
TEST CODE: KSC STSALL
TRACKING NO. KING2001 L004-2 L03-1-1 R109-69 R3510
PRIORITY: MANDATORY
RATIONALE: PERSONNEL SAFETY

1. TYPE/ITEM
SERVICE: FLIGHT CREW PROTECTION - KSC
2. RA OR SA:
3. DATES, AMTS.
OR CHECK FOR
REQ'D ITEM/
SERVICE:
4. PURPOSE/REMARKS/
SPEC. INSTRUCT: JSC REQUIRES KSC PROVIDE NECESSARY PROTECTIVE EQUIPMENT REQUIRED TO ENSURE PROTECTION OF

CONTINUED

[PRD] DATABASE RECORD: 204815
ITEM NUMBER: T37K

FLIGHT CREWS DURING A TEST A KSC. SUCH EQUIPMENT INCLUDES SUCH ITEMS AS FIRE EXTINGUISHERS, EEBD'S, 10 MINUTE ELSA'S, EMERGENCY MEDICAL ITEMS, AND FIRE HOSES. KSC WILL SERVICE, MAINTAIN, MODIFY, AND REPAIR SUCH EQUIPMENT KSC WILL DEPLOY FLIGHT CREW PROTECTION EQUIP. AT TEST AND OPERATIONS SITES IN ACCORDANCE WITH REQUIREMENTS IMPOSED BY HAZARDOUS CONDITIONS IDENTIFIED IN TEST AND CHECKOUT PROCEDURES.

COORD: JSC/CA4/ROBERT HANLEY/281 244-8654

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-TA-E SGS-322 SGS-347

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/13/90
RESPONSE TRACKING: Z3505

[PRD] DATABASE RECORD: 205078 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/09/97
INITIAL DATE: 08/14/89
ITEM NUMBER: T38DKT DATE LAST CHANGED: 05/30/07
SECTION: 5311 TIME LAST CHANGED: 10:33:12

REQUESTER: JSC
SUBREQUESTER: JSC/CA4
TEST CODE: EAFB INFO KSC SLF
STSALL WSSH

ASSOCIATED DOC: 20007S 20017S 20026S 20027S
20028S
TRACKING NO. KING2001 L03-1-1 L8108 R109-69 R3409
PRIORITY: REQUIRED
RATIONALE: LANDING SUPPORT

1. TYPE/ITEM
SERVICE: FLIGHT CREW PROTECTION - KSC
2. RA OR SA:
3. DATES, AMTS.

CONTINUED

[PRD] DATABASE RECORD: 205078
ITEM NUMBER: T38DKT

OR CHECK FOR
REQ'D ITEM/
SERVICE:
4. PURPOSE/REMARKS/
SPEC. INSTRUCT: JSC WILL PROVIDE SPECIAL FLIGHT CREW PROTECTION EQUIPMENT WHICH IS IDENTIFIED BY SPACECRAFT SYSTEMS OPERATIONS ANALYSIS (e.g., EMERGENCY BREATHING SYSTEMS) FOR USE WITH SUITS DURING EMERGENCY EGRESS.

TECH CONTACT: ROBERT HANLEY/281 244-8654

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z8134

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-TA-C SGS-347

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z8134

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
SUBSUPPLIER: Z8134

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE:

RESPONSE TRACKING: Z8134

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5311 - SERVICES - FIRE AND RESCUE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 205655 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/27/88
INITIAL DATE: 05/27/88
ITEM NUMBER: K40EX DATE LAST CHANGED: 03/22/07
SECTION: 5311 TIME LAST CHANGED: 08:00:49

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DFRC EAFB S0026.100 S0026.200
S0026.300 STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 R109-69 R26165 R2651
SCRUB06
PRIORITY: MANDATORY
RATIONALE: LANDING SUPPORT AT DFRC

1. TYPE/ITEM
SERVICE: SCAPE VAN AT DFRC
2. RA OR SA: SA
3. DATES, AMTS.
OR CHECK FOR
REQ'D ITEM/
SERVICE: N/A
4. PURPOSE/REMARKS/
SPEC. INSTRUCT: PROVIDE ONE SCAPE VAN WITH BACKUP VAN FOR
PRACTICE OPERATIONS AND FOR CONVOY/ORBITER
DESERVICING AFTER EACH LANDING.

DFRC TO PROVIDE PRIMARY VAN
EAFB TO PROVIDE BACK-UP

TECH CONTACT: KSC/PH-L/DEAN SCHAAF/321 861-9311
KSC/USK-426/MIKE KUTA/321 861-3980

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/23/88
RESPONSE TRACKING: Z2689

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5311 - SERVICES - FIRE AND RESCUE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 205655
ITEM NUMBER: K40EX

SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/27/88
RESPONSE: WILL COORDINATE DATES WITH EAFB.

RESPONSE TRACKING: Z2656

[PRD] DATABASE RECORD: 324775 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/20/98
INITIAL DATE: 05/26/89
ITEM NUMBER: K41E DATE LAST CHANGED: 11/30/06
SECTION: 5311 TIME LAST CHANGED: 08:32:54

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-705
TEST CODE: CCAFS STSALL
TRACKING NO. DB98 KING2001 R109-69 R2821 R9104
PRIORITY: MANDATORY
RATIONALE: LANDING SUPPORT AT DFRC.

1. TYPE/ITEM
   SERVICE: FIRE STANDBY (AT FIRE STATION) - CCAFS
2. RA OR SA:
3. DATES, AMTS.
   OR CHECK FOR
   REQ'D ITEM/
   SERVICE:
4. PURPOSE/REMARKS/
   SPEC. INSTRUCT: REQUIRED AT SRB DISASSEMBLY FACILITY DURING PROPELLANT TANK DEPRESSURIZATION. SUPPORT REQUIRED APPROX 2 DAYS AFTER ARRIVAL OF SPENT SRB'S FOR ONE DAY. DISASSEMBLY SITE SUPERVISOR TO CALL KSC SCHEDULING AT 853-2436 WITH EXACT TIME SUPPORT IS TO START. SUPPORT TIME WILL ALSO BE PUT ON THE KSC INTEGRATED CONTROL SCHEDULE.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5311 - SERVICES - FIRE AND RESCUE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 324775
ITEM NUMBER: K41E

TECH CONTACT: JOHN MULLEN/USK-705/321 853-3536
LRD/PH-L/321 861-9300

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/20/98
RESPONSE TRACKING: Z2821 Z9104

[PRD] DATABASE RECORD: 15700 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/03/88
INITIAL DATE: 08/03/88
ITEM NUMBER: K42DE DATE LAST CHANGED: 05/30/07
SECTION: 5311 TIME LAST CHANGED: 10:33:05

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L
TEST CODE: DFRC EAFB STSALL WSSH

ASSOCIATED DOC: 20026S 20027S
TRACKING NO. DB98 KING2001 L07-1-2 R109-69 R26198
R26244
PRIORITY: MANDATORY
RATIONALE: PERSONNEL SAFETY

1. DESCRIPTION: WATER PUMPER TRUCKS

PROVIDE TWO DEDICATED WATER PUMPER TRUCKS IN THE LANDING CONVOY AT DFRC/EAFB AND AT WSSH TO PROVIDE CAPABILITY FOR SCAPE SUIT HOSEDOWN ON THE RUNWAY.

REF. K42D: DOD WILL PROVIDE THE TRUCKS AT WSSH (OMI S0027 - WSSH).
REF. K42E: EAFB WILL PROVIDE THE TRUCKS AT DFRC/EAFB (OMI S0026 - DFRC).

TECH CONTACT: KSC/PH-L/DEAN SCHAAF/321 861-9311
KSC/USK-426/MIKE KUTA/321 861-3890
(D)DDMS-T/321-494-5983

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5311 - SERVICES - FIRE AND RESCUE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 15700
ITEM NUMBER: K42DE

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/03/88
RESPONSE TRACKING: Z26120 Z26133

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/18/88
RESPONSE:

RESPONSE TRACKING: Z26133 Z2720

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5312A - SERVICES - MEDICAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 257045 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/05/01
INITIAL DATE: 08/14/89
ITEM NUMBER: T2DEKTXZ DATE LAST CHANGED: 05/30/07
SECTION: 5312A TIME LAST CHANGED: 10:33:16

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: EAFB INFO SLF STSALL
WSSH

ASSOCIATED DOC: 20007S 20014S 20017S 20026S
20027S 20028S
TRACKING NO. KING2001 L01-9-1 L02-1-1 L04-10-4 L609-1
L8108 L908-7 R108-3 R109-68 R3409

1. DESCRIPTION: EMERGENCY MEDICAL SERVICES

IMPLEMENTATION OF EMERGENCY MEDICAL SERVICES AND OTHER MEDICAL OPERATIONS REQUIREMENTS AT ALL SHUTTLE LAUNCH AND LANDING SHALL BE IN ACCORDANCE WITH THE MEDICAL OPERATIONS REQUIREMENTS DOCUMENT, JSC 13956.

COORDINATION: JSC/SD2/MICHAEL CHANDLER/281 483-2956

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 09/05/01
RESPONSE TRACKING: Z8134

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB ER WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 09/05/01
RESPONSE TRACKING: Z8134

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: JJ-3

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 09/05/01
RESPONSE TRACKING: Z8134

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5312A - SERVICES - MEDICAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 257045
ITEM NUMBER: T2DEKTXZ

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 09/05/01
RESPONSE TRACKING: Z8134

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: X
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 09/05/01
RESPONSE TRACKING: Z8134

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 09/05/01
RESPONSE TRACKING: Z8134

[PRD] DATABASE RECORD: 214864 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/05/01
INITIAL DATE: 09/19/89
ITEM NUMBER: KT3X DATE LAST CHANGED: 03/22/07
SECTION: 5312A TIME LAST CHANGED: 08:01:52

REQUESTER: KSC JSC
SUBREQUESTER: JSC/SD2 KSC/TA-C
TEST CODE: EAFB S5022.200 STSALL

ASSOCIATED DOC: 20026S 25022S
TRACKING NO. DB98 KING2001 L01-9-1 L02-1-1 L04-10-4
L3411 L4314 L507-6 R108-3 R109-68
R2809 SHAW95
PRIORITY: MANDATORY
RATIONALE: REQUIRED MEDICAL SERVICE FOR TDY NASA CIVIL SERVICE PERSONNEL.

1. DESCRIPTION: MEDICAL - GENERAL

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5312A - SERVICES - MEDICAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 214864
ITEM NUMBER: KT3X

PROVIDE OCCUPATIONAL HEALTH SERVICES PRIMARILY FOR FIRST AID AND EMERGENCY MEDICAL SUPPORT FOR TDY NASA CIVIL SERVICE AND CONTRACTOR PERSONNEL IN SUPPORT OF SHUTTLE OPERATIONS.

PRIME REQUESTER: JSC/SD2/MICHAEL CHANDLER/281 483-2956 (PRIME REQ.)

COORDINATION: KSC/TA-C/DON DOERR/321 867-6387

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: X
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/05/01
RESPONSE TRACKING: Z26156 Z3453 Z4340 Z7503

[PRD] DATABASE RECORD: 283710 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/05/01
INITIAL DATE: 09/06/88
ITEM NUMBER: T4K DATE LAST CHANGED: 05/30/07
SECTION: 5312A TIME LAST CHANGED: 10:57:36

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20028S
TRACKING NO. KING2001 L01-9-1 L02-1-1 L04-10-4 L111-18
L2636 L2642 L4437 R108-3 R109-68

1. DESCRIPTION: KSC MEDICAL SUPPORT:

1. PROVIDE JSC WITH A MEDICAL OPERATION AND SUPPORT IMPLEMENTATION PLAN. THE PLAN SHOULD ACCOMMODATE THE REQUIREMENTS CONTAINED HEREIN AND IN THE MEDICAL OPERATIONS REQUIREMENTS DOCUMENT JSC-13956 IN COORDINATION WITH THE DOD THRU HSFS AT PATRICK AFB.

2. PROVIDE MEDICAL AND OTHER REQUIRED SUPPORT FOR THE FLIGHT CREW HEALTH STABILIZATION PROGRAM FOR EACH MISSION PER HEALTH STABILIZATION DOCUMENT JSC-22538.

CONTINUED

[PRD] DATABASE RECORD: 283710
ITEM NUMBER: T4K

3. PROVIDE OCCUPATIONAL HEALTH SERVICES INCLUDING FIRST AID AND EMERGENCY MEDICAL SUPPORT FOR ALL NASA CIVIL SERVICE AND CONTRACTOR PERSONNEL.

4. PROVIDE EMS FOR ORBITER LAUNCH AND LANDING ACTIVITIES AT KSC IN ACCORDANCE WITH THE MEDICAL OPERATIONS REQUIREMENT DOCUMENT JSC-13956 AND COMMUNICATION SECTION 2760 IN COORDINATION WITH THE DOD THRU HSFS AT PAFB.

5. NEGOTIATE AGREEMENTS WITH LOCAL AREA REGIONAL HOSPITALS DEFINITIVE AND INTERMEDIATE MEDICAL CARE FACILITIES, AND MEDICAL CONSULTANTS IN SUPPORT OF EMS.

6. WHEN FORMATION OF A RAPID RESPONSE TEAM IS IMPLEMENTED UPON DETERMINATION OF ORBITER LANDING AT AN ELS OUTSIDE THE CONTINENTAL U.S., THE RESPONSE FORCE SHALL INCLUDE SPACE FOR 1 JSC (CREW) PHYSICIAN IN ITS FIRST DEPLOYED COMPLEMENT.

7. WHEN DESIGNATED THE SECONDARY LANDING SITE, PROVIDE A FLIGHT SURGEON TO AUGMENT THE JSC FLIGHT SURGEON IN THE EVENT OF A LANDING. IF NO JSC FLIGHT SURGEON IS AVAILABLE, PROVIDE TWO FLIGHT SURGEONS. RESPONSIBILITIES WILL INCLUDE: (1) POST FLIGHT MEDICAL CHECKS IN THE ORBITER, (2) POST FLIGHT MEDICAL EXAMS, AND (3) POST FLIGHT MEDICAL DEBRIEFS. TRAINING IN THE ABOVE AREAS WILL BE REQUIRED.

COORDINATION: JSC/SD2/MICHAEL CHANDLER/281 483-2956

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: PH-L TA-C USK-426

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/05/01
RESPONSE:
INFO ONLY:
TA-C RESPONSE IS WILCO FOR ITEMS 1,2,3,4,5 AND 7 ONLY.
PH-L/USK-426 RESPONSE IS WILCO FOR ITEM 6 ONLY.

RESPONSE TRACKING: Z26175 Z26211 Z3980 Z4528

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5312A - SERVICES - MEDICAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 283710
ITEM NUMBER: T4K

[PRD] DATABASE RECORD: 304704 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/05/01
INITIAL DATE: 11/19/91
ITEM NUMBER: T6DX DATE LAST CHANGED: 05/31/07
SECTION: 5312A TIME LAST CHANGED: 07:25:11

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. KING2001 L01-9-1 L02-1-1 L04-10-4 L111-18
L2636 L2642 L301-2 L4437 L5528
R108-3 R109-68

1. DESCRIPTION: DFRC/EAFB MEDICAL SUPPORT

1. PROVIDE JOINT SUPPORT WITH JSC IN THE PRODUCTION OF A MEDICAL OPERATIONS AND SUPPORT IMPLEMENTATION PLAN FOR DFRC/EAFB. THE PLAN SHOULD ACCOMMODATE THE REQUIREMENTS CONTAINED HEREIN AND IN THE MEDICAL OPERATIONS REQUIREMENTS DOCUMENT JSC-13956 IN COORDINATION WITH THE DOD THROUGH HSFS AT PATRICK AFB. (D)

2. PROVIDE MEDICAL AND OTHER REQUIRED SUPPORT FOR THE FLIGHT CREW HEALTH STABILIZATION PROGRAM FOR EACH MISSION PER HEALTH STABILIZATION PROGRAM DOCUMENT JSC-22538. (D, X)

3. PROVIDE EMS FOR ORBITER LAUNCH AND LANDING ACTIVITIES AT DFRC IN COORDINATION WITH THE DOD THROUGH HSFS AT PATRICK AFB. (D, X)

4. NEGOTIATE AGREEMENTS WITH LOCAL AREA REGIONAL HOSPITALS DEFINITIVE AND INTERMEDIATE MEDICAL CARE FACILITIES, AND MEDICAL CONSULTANTS IN SUPPORT OF EMS. (X)

5. WHEN DESIGNATED THE SECONDARY LANDING SITE, PROVIDE A FLIGHT SURGEON TO AUGMENT THE JSC FLIGHT SURGEON IN THE EVENT A LANDING. IF NO JSC FLIGHT SURGEON IS AVAILABLE, PROVIDE TWO FLIGHT SURGEONS.

CONTINUED

[PRD] DATABASE RECORD: 304704
ITEM NUMBER: T6DX

RESPONSIBILITIES WILL INCLUDE: (1) POST FLIGHT MEDICAL CHECKS IN THE ORBITER, (2) POST FLIGHT MEDICAL EXAMS, AND (3) POST FLIGHT MEDICAL DEBRIEFS. TRAINING IN THE ABOVE AREAS WILL BE REQUIRED. (D)

COORDINATION: JSC/SD2/MICHAEL CHANDLER/281 483-2956

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/02/01
RESPONSE TRACKING: Z108-5 Z26175 Z2709 Z4503 Z5528

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: X
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/05/01
RESPONSE TRACKING: Z108-10 Z26156 Z26175 Z4202 Z5528

[PRD] DATABASE RECORD: 297623 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/22/88
INITIAL DATE: 11/22/88
ITEM NUMBER: T8D DATE LAST CHANGED: 05/30/07
SECTION: 5312A TIME LAST CHANGED: 10:33:17

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: DODALS DODELS STSALL
TRACKING NO. KING2001 L2741 R109-68

1. DESCRIPTION: PROVIDE EMS SUPPORT FOR INJURED FLIGHT CREW MEMBERS WITHIN EXISTING CAPABILITIES AT LOCAL DOD MEDICAL FACILITY.

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494 -2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/21/88

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5312A - SERVICES - MEDICAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 297623
ITEM NUMBER: T8D

RESPONSE TRACKING: Z2756

[PRD] DATABASE RECORD: 298826 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/09/97
INITIAL DATE: 08/14/89
ITEM NUMBER: D9KTXZ DATE LAST CHANGED: 05/31/07
SECTION: 5312A TIME LAST CHANGED: 07:22:19

REQUESTER: HSFS
TEST CODE: EAFB INFO KSC STSALL
WSSH

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
TRACKING NO. KING2001 L8108 R109-68 R3409

1. DESCRIPTION: FOR REMOTE AREAS, MEDICAL SUPPORT WILL BE PROVIDED WITHIN THE CAPABILITIES OF RESPONDING SAR ORGANIZATIONS.

TECHNICAL CONTACT: (D) HSFS-M/321-494-5981

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: TA-C

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z8134

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z8134

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: X
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z8134

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5312A - SERVICES - MEDICAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 298826
ITEM NUMBER: D9KTXZ

RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z8134

[PRD] DATABASE RECORD: 299656 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/05/01
INITIAL DATE: 11/30/89
ITEM NUMBER: T10D DATE LAST CHANGED: 05/30/07
SECTION: 5312A TIME LAST CHANGED: 10:33:18

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: DODALS DODELS STSALL TAL

TRACKING NO. KING2001 L01-9-1 L04-10-4 L2741 L3204
L908-7 R108-3 R109-68

1. DESCRIPTION: EMERGENCY MEDICAL/TAL SITES

PROVIDE EMERGENCY MEDICAL SUPPORT FOR NASA AND CONTRACTOR PERSONNEL AT ACTIVE TAL SITE WHEN "DOD" MEDICAL PERSONNEL ARE PRESENT.

COORD: JSC/SD2/MICHAEL CHANDLER/ 281 483-2956

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/05/01
RESPONSE TRACKING: Z2756 Z3208 Z3324 Z3328

[PRD] DATABASE RECORD: 20283 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/05/01
INITIAL DATE: 11/30/89
ITEM NUMBER: KT10.1EZ DATE LAST CHANGED: 11/30/06
SECTION: 5312A TIME LAST CHANGED: 08:50:53

REQUESTER: KSC JSC
SUBREQUESTER: JSC/SD2 KSC/PH-L USK-426
TEST CODE: STSALL WSSH

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5312A - SERVICES - MEDICAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 20283
ITEM NUMBER: KT10.1EZ

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 L01-9-1 L04-10-4 L3204
L5404 R108-3 R109-68
PRIORITY: MANDATORY
RATIONALE: SAFETY - EMERGENCY MEDICAL FIRST AID FOR WSSH LANDING SUPPORT.

1. DESCRIPTION: EMERGENCY MEDICAL/FIRST AID

WSMR TO PROVIDE EMERGENCY MEDICAL AND WSTF TO PROVIDE 24 HOUR FIRST AID SUPPORT FOR NASA AND CONTRACTOR SHUTTLE GROUND SUPPORT PERSONNEL AT WSSH.

TECH CONTACTS:JSC/SD2/MICHAEL CHANDLER/281 483-2956 (PRIME REQUESTER)
KSC/USK-426/MIKE KUTA/321 861-3980
KSC/PH-L/DEAN SCHAAF/321 861-9311

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/05/01
RESPONSE TRACKING: Z3208 Z5405

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/05/01
RESPONSE TRACKING: Z3208 Z5405

[PRD] DATABASE RECORD: 300435 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/18/05
INITIAL DATE: 08/08/89
ITEM NUMBER: T11D DATE LAST CHANGED: 05/31/07
SECTION: 5312A TIME LAST CHANGED: 07:23:22

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: STSALL WSSH

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5312A - SERVICES - MEDICAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 300435
ITEM NUMBER: T11D

ASSOCIATED DOC: 20027S
TRACKING NO. KING2001 L01-9-1 L04-10-4 L05-1-2 L111-18
L2636 L2642 L4437 L908-7 R0501-4
R108-3 R109-68 R3414
PRIORITY: REQUIRED
RATIONALE: MEDICAL SUPPORT AT WSSH.

1. DESCRIPTION: EMS AT WSSH

1. PROVIDE JOINT SUPPORT WITH JSC IN THE PRODUCTION OF A MEDICAL OPERATIONS AND SUPPORT IMPLEMENTATION PLAN FOR WSSH. THE PLAN SHOULD ACCOMMODATE THE REQUIREMENTS CONTAINED HEREIN AND IN THE MEDICAL OPERATIONS REQUIREMENTS DOCUMENT JSC-13956 IN COORDINATION WITH THE DOD THROUGH DDMS AT PATRICK AFB.

2. PROVIDE MEDICAL AND OTHER REQUIRED SUPPORT FOR THE FLIGHT CREW HEALTH STABILIZATION PROGRAM FOR EACH MISSION PER HEALTH STABILIZATION PROGRAM DOCUMENT JSC-22538.

3. PROVIDE EMS FOR ORBITER LAUNCH AND LANDING ACTIVITIES AT WSSH IN COORDINATION WITH THE DOD THROUGH DDMS AT PATRICK AFB.

4. MEDICAL EQUIPMENT IN THE WSSH MEDICAL OPERATIONS TRAILER WILL BE PROVIDED BY WSSH IAW, THE MEDICAL OPERATIONS REQUIREMENTS DOCUMENT FOR SHUTTLE MISSIONS, JSC-13956, AND THE WSSH MOSIP.

5. WHEN DESIGNATED THE SECONDARY LANDING SITE, PROVIDE A FLIGHT SURGEON TO AUGMENT THE JSC FLIGHT SURGEON IN THE EVENT OF A LANDING. IF NO JSC FLIGHT SURGEON IS AVAILABLE, PROVIDE TWO FLIGHT SURGEONS. RESPONSIBILITIES WILL INCLUDE: (1) POST FLIGHT MEDICAL CHECKS IN THE ORBITER, (2) POST FLIGHT MEDICAL EXAMS, AND (3) POST FLIGHT MEDICAL DEBRIEFS. TRAINING IN THE ABOVE AREAS WILL BE REQUIRED.

COORDINATION: JSC/SD2/MICHAEL CHANDLER/281 483-2956
HSFS-M/321-494-5981

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5312A - SERVICES - MEDICAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 300435
ITEM NUMBER: T11D

RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/22/05
RESPONSE TRACKING: Z0502-4 Z108-5 Z26175 Z2709 Z3408
Z4235 Z4503

[PRD] DATABASE RECORD: 305600 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/05/01
INITIAL DATE: 09/06/88
ITEM NUMBER: T15D DATE LAST CHANGED: 05/31/07
SECTION: 5312A TIME LAST CHANGED: 07:26:21

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: DODALS STSALL
TRACKING NO. KING2001 L04-10-4 L2636 L2642 L5528
R108-3 R109-68 SCRUB06

1. DESCRIPTION:
PROVIDE AN EMS PLAN FOR EACH DOD ALS. PLAN SHALL INCLUDE DESIGNATION OF A DOD EMS COORDINATOR AT WSSH, A DOD SENIOR MEDICAL OFFICER AT EAFB, KSC AND ACTIVE TAL SITES, AND SCHEDULED MILESTONES TO IDENTIFY ADDITIONAL RESOURCE REQUIREMENTS; A TRAINING SCHEDULE OF EMS SPACE SHUTTLE SUPPORT PERSONNEL; COMMUNICATIONS; TRANSPORTATION CAPABILITIES; ACCESSIBILITY TO DEFINITIVE CARE CENTERS; ACCESSIBILITY TO HYPERBARIC CHAMBERS, TO INCLUDE NUMBER OF PEOPLE IT WILL ACCOMMODATE AND TRAVEL DISTANCES AND TIMES BY TYPE OF VEHICLE/AIRCRAFT; MEDICAL RECORD KEEPING PRACTICES; PUBLIC INFORMATION POLICIES; HAZARDOUS MATERIAL HANDLING PRACTICES; A LISTING OF HOSPITALS PROPOSED AS DEFINITIVE CARE CENTERS; IDENTIFICATION OF SPECIALITIES AVAILABLE AT THESE HOSPITALS, TYPICAL TRAVEL DISTANCES AND TIMES BY TYPE OF VEHICLE/ AIRCRAFT. THE EMS PLAN/DOCUMENT SHALL BE UPDATED AS REQUIRED. THE PLAN/DOCUMENT SHALL BE UPDATED AS REQUIRED. THE PLAN SHOULD ACCOMMODATE THE REQUIREMENTS CONTAINED HEREIN AND IN THE JSC-13956, MEDICAL OPERATIONS REQUIREMENTS DOCUMENT.

NOTE: THE REQUESTED INFORMATION IS CURRENTLY CONTAINED IN THE MEDICAL OPERATIONS SITE IMPLEMENTATION PLAN (MOSIP) FOR EACH SITE. ALL MOSIPS ARE UPDATED ANNUALLY.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5312A - SERVICES - MEDICAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 305600
ITEM NUMBER: T15D

COORDINATION: JSC/SD2/MICHAEL CHANDLER/281 483-2956
HSFS-M/321 494-5981

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/05/01
RESPONSE TRACKING: Z2709 Z5528 Z5555 Z5903 Z5907
Z6120

[PRD] DATABASE RECORD: 311878 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/05/01
INITIAL DATE: 08/26/88
ITEM NUMBER: T16DKX DATE LAST CHANGED: 05/30/07
SECTION: 5312A TIME LAST CHANGED: 10:33:19

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: EAFB KSC STSALL WSSH

ASSOCIATED DOC: 20026S 20027S 20028S
TRACKING NO. KING2001 L01-9-1 L04-10-4 L2646 L5544
R108-3 R109-68
PRIORITY: MANDATORY
RATIONALE: MEDICAL TRAINING

1. DESCRIPTION: PROVIDE JSC WITH THE MEDICAL OPERATIONS TRAINING PLAN IN THE RESPECTIVE SUPPORT MEDICAL OPERATIONS SITE IMPLEMENTATION PLAN.

COORDINATION: JSC/SD2/MICHAEL CHANDLER/281 483-2956
KSC/TA-C/DON DOERR/321-867-6387

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/05/01

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5312A - SERVICES - MEDICAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 311878
ITEM NUMBER: T16DKX

RESPONSE: INFO: DDMS PROVIDES (MOSIP) FOR DOD SITES ONLY.

RESPONSE TRACKING: Z26156 Z5553

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: TA-C

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 09/05/01
RESPONSE:
TRAINING IS ADDRESSED IN THE MEDICAL OPERATION SUPPORT IMPLEMENTATION P
LAN LATEST REVISION.

RESPONSE TRACKING: Z26156 Z5553

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: X
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/05/01
RESPONSE TRACKING: Z26156 Z5553

[PRD] DATABASE RECORD: 12957 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/05/01
INITIAL DATE: 02/02/90
ITEM NUMBER: T16.1DX DATE LAST CHANGED: 05/30/07
SECTION: 5312A TIME LAST CHANGED: 10:33:02

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: DODELS STSALL
TRACKING NO. KING2001 L001-11 L01-9-1 L04-10-4 L3625
R108-3 R109-68
PRIORITY: REQUIRED
RATIONALE: MISSION SUPPORT

1. DESCRIPTION: PROVIDE JSC WITH AN INFORMATION PACKAGE FOR MEDICAL SUPPORT CAPABILITY AT DOD ELS'S

COORDINATION: JSC/SD2/MICHAEL CHANDLER/281 483-2956

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5312A - SERVICES - MEDICAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 12957
ITEM NUMBER: T16.1DX

DDMS-M/321 494-5981

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/05/01
RESPONSE TRACKING: Z26120 Z2623

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/24/02

[PRD] DATABASE RECORD: 312438 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/05/01
INITIAL DATE: 08/14/89
ITEM NUMBER: T17DEKTXZ DATE LAST CHANGED: 05/30/07
SECTION: 5312A TIME LAST CHANGED: 10:33:19

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: EAFB INFO STSALL WSSH

TRACKING NO. KING2001 L01-9-1 L04-10-4 L210-1 L5301
L8108 L908-7 R108-3 R109-68 R3409
PRIORITY: MANDATORY
RATIONALE: FEDERAL LAW

1. DESCRIPTION: PRIVACY - ALL MEDICAL INFORMATION RECORDS, DATA, AND REPORTS CONCERNING NASA PERSONNEL AND FLIGHT CREW MEMBERS SHALL BE HANDLED, SECURED, AND MAINTAINED IN COMPLIANCE WITH THE PROVISION OF THE PRIVACY ACT OF 1974 AND ACCORDANCE WITH THE MORD, JSC-13956.

COORDINATION: JSC/SD2/MICHAEL CHANDLER/281 483-2956

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 09/05/01

CONTINUED

[PRD] DATABASE RECORD: 312438
ITEM NUMBER: T17DEKTXZ

RESPONSE TRACKING: Z8134

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB ER WSMR
RESPONDER: BART KLEINFELDT/321 853-8650

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 09/05/01
RESPONSE TRACKING: Z8134

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: TA-C

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 09/05/01
RESPONSE TRACKING: Z8134

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 09/05/01
RESPONSE TRACKING: Z8134

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: X
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 09/05/01
RESPONSE TRACKING: Z8134

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 09/05/01
RESPONSE TRACKING: Z8134

[PRD] DATABASE RECORD: 314092 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/02/90
INITIAL DATE: 02/02/90
ITEM NUMBER: T18K DATE LAST CHANGED: 11/30/06
SECTION: 5312A TIME LAST CHANGED: 08:59:03

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5312A - SERVICES - MEDICAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 314092
ITEM NUMBER: T18K

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: KSC STSALL
TRACKING NO. KING2001 L001-11 L3625 L812-1

1. DESCRIPTION: FLIGHT CREW SERVICES - KSC

PROVIDE SUPPORT TO JSC CERTIFIED FOOD HANDLERS AND OTHER
FLIGHT CREW SERVICES AND/OR SUPPORT PERSONNEL AS REQUIRED BY JSC.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: TA-C

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/15/90
RESPONSE TRACKING: Z3623

[PRD] DATABASE RECORD: 249115 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/05/01
INITIAL DATE: 11/30/89
ITEM NUMBER: KT19D DATE LAST CHANGED: 05/30/07
SECTION: 5312A TIME LAST CHANGED: 10:42:06

REQUESTER: KSC JSC
SUBREQUESTER: JSC/SD2 KSC/PH-L USK-426
TEST CODE: DODALS STSALL
TRACKING NO. DB98 KING2001 L01-9-1 L04-10-4 L2642
L3204 R108-3 R109-68 R2617
PRIORITY: MANDATORY
RATIONALE: REQUIRED EMERGENCY MEDICAL SUPPORT FOR PERSONNEL AT
DOD ALS SITES.

1. DESCRIPTION: EMERGENCY MEDICAL/DOD ALS

PROVIDE EMERGENCY MEDICAL SUPPORT FOR GROUND TURNAROUND TEAM AT
A DOD ALS ON A 24 HOUR BASIS WHILE DOD MEDICAL FORCES ARE PRESENT
AT THE ALS UNTIL THE ARRIVAL OF NASA MEDICAL ASSETS.

COORDINATION: JSC/SD2/MICHAEL CHANDLER/281 483-2956
KSC/PH-L/TIM O'BRIEN/321 861-9303
KSC/USK-426/MIKE KUTA/321 861-3890

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5312A - SERVICES - MEDICAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 249115
ITEM NUMBER: KT19D

HSFS-M/321 494-5981

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/05/01
RESPONSE TRACKING: Z2709 Z3208

[PRD] DATABASE RECORD: 13097 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/05/01
INITIAL DATE: 09/06/88
ITEM NUMBER: T21X DATE LAST CHANGED: 03/22/07
SECTION: 5312A TIME LAST CHANGED: 08:05:21

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. KING2001 L01-9-1 L04-10-4 L102-9 R109-68

1. DESCRIPTION: EMERGENCY MEDICAL SERVICES (EMS)

ONE PHYSICIAN (EMS COORDINATOR) WILL BE ON-CALL AND AVAILABLE TO SUPPORT A CONTINGENCY LANDING AT DRYDEN/EAFB WITHIN 4 HOURS AFTER NOTIFICATION.

COORDINATION: JSC/SD2/MICHAEL CHANDLER/281 483-2956
DFRC/GEORGE GRIMSHAW/661 276-3425

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: XE
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/05/01
RESPONSE TRACKING: Z26156 Z3980

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5312A - SERVICES - MEDICAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 364664 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/04/89
INITIAL DATE: 10/04/89
ITEM NUMBER: K21.1D DATE LAST CHANGED: 05/31/07
SECTION: 5312A TIME LAST CHANGED: 08:17:08

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 L3431 L909-3 R109-68
PRIORITY: REQUIRED
RATIONALE: TERTIARY LANDING SITE. BECOMES MANDATORY FOR LANDING AT WSSH.

1. DESCRIPTION: PROVIDE EMERGENCY MEDICAL AND FIRST AID SUPPORT AT HAFB CLINIC FOR WHITE SANDS SPACE HARBOR SHUTTLE GROUND OPERATIONS PERSONNEL. PROVIDE HELO TRANSPORTATION FOR INJURED UPON REQUEST.

TECH CONTACT: KSC/PH-L/LOUIE GARCIA/321 867-6196
KSC/USK-426/MIKE KUTA/321 861-3890
HSFS-M/321 494-5981

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/05/89
RESPONSE TRACKING: Z3469

[PRD] DATABASE RECORD: 13099 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/18/05
INITIAL DATE: 09/06/88
ITEM NUMBER: T22D DATE LAST CHANGED: 05/30/07
SECTION: 5312A TIME LAST CHANGED: 10:33:02

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. KING2001 L01-9-1 L04-10-4 L05-1-2 L102-9
L2642 L3920 L604-3 L607-5 L7702

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5312A - SERVICES - MEDICAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 13099
ITEM NUMBER: T22D

L7911 R0501-4 R108-3 R109-68 SCRUB06

1. DESCRIPTION: EMERGENCY MEDICAL SERVICES - EMS COORDINATOR

ONE DOD PHYSICIAN (EMS COORDINATOR) WILL BE AVAILABLE TO SUPPORT A CONTINGENCY LANDING AT WSSH WITH 24 HOUR NOTICE. CONTINGENCY LANDING SUPPORT, WITH LESS THAN 24 HOURS NOTICE, WILL BE WITH PERSONNEL AND RESOURCES "AS AVAILABLE".

TRAINING REQUIRED: MEDICAL HAZARDS POSED BY SPACECRAFT SYSTEMS AND EMS REQUIREMENTS IN THE MEDICAL OPERATIONS REQUIREMENTS DOCUMENT, JSC-13956.

RESPONSIBLE AGENCY: DDMS

DATE:

A. ARRIVAL: TWO HOURS PRIOR TO A POSSIBLE LANDING WHEN DESIGNATED THE PRIMARY AOA SITE AND TWO HOURS PRIOR TO EOM +2 LANDINGS. IF THE DOD REPRESENTATIVE (REF. DBR 12977) ACCOMPLISHES THE RADIO CHECKS FOR THE EMS COORDINATOR TWO HOURS PRIOR TO LAUNCH, THE EMS COORDINATOR MUST BE ON CONSOLE ONE HOUR BEFORE LAUNCH OR LANDING.

B. DEPART: THE EMS COORDINATOR CAN DEPART AFTER THE CALL FOR ORBIT OPS OR RELEASED BY THE MCC FLIGHT SURGEON WHEN SUPPORTING AOA, OR WHEN THE CREW HAS REACHED ITS LOCAL DESTINATION (MEDICAL DEBRIEF FACILITY) OR THEY HAVE DEPARTED FOR JSC POST-LANDING. THIS RELEASE WILL COME THROUGH THE SUPPORT OPERATIONS CENTER (SOC).

COORDINATION: JSC/SD2/MICHAEL CHANDLER/281 483-2956
DDMS-M/321-494-5981

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/22/05

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5312A - SERVICES - MEDICAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 13099
ITEM NUMBER: T22D

RESPONSE TRACKING: Z0502-4 Z2709 Z3980 Z5921 Z7927

[PRD] DATABASE RECORD: 14585 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/18/05
INITIAL DATE: 04/14/88
ITEM NUMBER: T24.1D DATE LAST CHANGED: 05/30/07
SECTION: 5312A TIME LAST CHANGED: 10:33:03

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: DODALS EAFB MORON STSALL
TAL WSSH ZARAGOZA

ASSOCIATED DOC: 20026S 20027S
TRACKING NO. KING2001 L01-9-1 L04-10-4 L05-1-2 L301-2
L5511 L703-3 L8303 R0501-4 R108-3
R109-68 R26117

1. DESCRIPTION: AMBULANCE - CREW RESCUE

PROVIDE RESCUE CONFIGURED AMBULANCES; NUMBER IS TDB DEPENDING ON CREW SIZE. AMBULANCES TO BE PROVIDED ON LAUNCH AT DOD TAL SITES AND DOD DESIGNATED ACTIVE AOA SITES. AMBULANCES TO BE PROVIDED ON LANDING AT NOMINAL DOD EOM SITES.

COORDINATION: JSC/SD2/MICHAEL CHANDLER/281 483-2956
DDMS-M/321 494-5981

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/22/05
RESPONSE TRACKING: Z0502-4 Z26139 Z5507 Z8328

[PRD] DATABASE RECORD: 13102 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/06/01
INITIAL DATE: 02/02/90
ITEM NUMBER: T26D DATE LAST CHANGED: 05/30/07
SECTION: 5312A TIME LAST CHANGED: 10:33:02

REQUESTER: JSC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5312A - SERVICES - MEDICAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 13102
ITEM NUMBER: T26D

SUBREQUESTER: JSC/SD2
TEST CODE: DODELS STSALL
TRACKING NO. KING2001 L001-11 L01-9-1 L04-10-4 L3625
R108-3 R109-68
PRIORITY: MANDATORY
RATIONALE: MEDICAL SUPPORT

1. DESCRIPTION: EMERGENCY MEDICAL SERVICES (EMS)

LOCATION: DOD ELS SITES PROVIDE EMS SUPPORT FOR INJURED FLIGHT CREWMEMBERS WITHIN EXISTING CAPABILITIES.

COORDINATION: JSC/SD2/MICHAEL CHANDLER/281 483-2956
DDMS-M/321 494-5981

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/06/01
RESPONSE TRACKING: Z3623

[PRD] DATABASE RECORD: 16178 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/07/01
INITIAL DATE: 08/31/88
ITEM NUMBER: T27DK DATE LAST CHANGED: 05/30/07
SECTION: 5312A TIME LAST CHANGED: 10:33:05

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: EAFB KSC STSALL WSSH

ASSOCIATED DOC: 20026S 20027S 20028S
TRACKING NO. KING2001 L01-9-1 L04-10-4 L2634 R108-3
R109-68 SCRUB06
PRIORITY: REQUIRED
RATIONALE: TRANSPORTATION OF CREW SURGEON

1. DESCRIPTION: TRANSPORTATION FOR CREW SURGEON

CONTINUED

[PRD] DATABASE RECORD: 16178
ITEM NUMBER: T27DK

TRANSPORTATION SHALL BE PROVIDED FOR THE CREW SURGEON
FROM THE CONVOY TO TRIAGE SITE DURING CONTINGENCY OPS.

COORDINATION: JSC/SD2/MICHAEL CHANDLER/281 483-2956
KSC/TA-C/DON DOERR/321 867-6387
DDMS-M/321 494-5981

NOTE: TRANSPORTATION WILL BE PROVIDED ON AN AS AVAILABLE BASIS.

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/07/01
RESPONSE TRACKING: Z26187 Z29101

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: TA-C

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/07/01
RESPONSE TRACKING: Z26211

[PRD] DATABASE RECORD: 17639 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/09/89
INITIAL DATE: 02/09/89
ITEM NUMBER: K28X DATE LAST CHANGED: 03/22/07
SECTION: 5312A TIME LAST CHANGED: 08:05:53

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 L2923 R109-68
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR PERSONNEL CERTIFICATION AT DRYDEN.

1. DESCRIPTION: MEDICAL EXAMINATION SUPPORT

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5312A - SERVICES - MEDICAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 17639
ITEM NUMBER: K28X

KSC REQUIRES MEDICAL EXAMINATIONS FOR KSC PERMANENTLY ASSIGNED USK CONTRACTORS AT DRYDEN. EXAMINATIONS SHALL INCLUDE PROVISIONS FOR SCAPE CERTIFICATIONS. NUMBER OF PERSONNEL SHALL NOT EXCEED 15.

TECH CONTACT: KSC/PH-L/DEAN SCHAAF/321 861-9311
KSC/USK-426/MIKE KUTA/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: X
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/09/89
RESPONSE TRACKING: Z2973

[PRD] DATABASE RECORD: 280838 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/01/83
INITIAL DATE: 06/01/83
ITEM NUMBER: T30X DATE LAST CHANGED: 03/22/07
SECTION: 5312A TIME LAST CHANGED: 08:06:25

REQUESTER: JSC
TEST CODE: STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. KING2001 L0701-2 R109-68

1. DESCRIPTION: PROVIDE OCCUPATIONAL HEALTH SERVICES AT DFRC INCLUDING FIRST AID AND OTHER EMERGENCY MEDICAL SUPPORT FOR ALL JSC AND KSC CIVIL SERVICE AND CONTRACTOR PERSONNEL. NASA CIVIL SERVICE AND CONTRACTOR EXAMS ARE REQUIRED (MAXIMUM OF 40 PER YEAR).

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/01/83

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5312A - SERVICES - MEDICAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 299477 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/02/90
INITIAL DATE: 02/02/90
ITEM NUMBER: T31K DATE LAST CHANGED: 03/23/07
SECTION: 5312A TIME LAST CHANGED: 07:48:55

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: FERRY STSALL

ASSOCIATED DOC: 25022S 25044S
TRACKING NO. KING2001 L001-11 L812-1
PRIORITY: MANDATORY
RATIONALE: SAFETY ISSUE

1. SUPPORT SRVCE OR
SPEC. RQMTS: HAZARD PROTECTION EQUIPMENT
2. PURPOSE: FOR SCA PERSONNEL
3. SPECIALIZED
PERSONNEL OR
EQUIP. NEEDED: PROVIDE HAZARD ASSESSMENT DETECTION EQUIPMENT, RADIOS, AND PROTECTIVE BREATHING EQUIPMENT FOR FIVE (5) SCA PERSONNEL DURING SCA/ORBITER FERRY FLIGHTS.

POINT OF CONTACT: DENNY GAGEN/PH-L/321 861-9301
DON MCCORMICK/MV/281 483-1267

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: PH-L USK-426

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/01/91
RESPONSE TRACKING: Z3623 Z3980 Z4340

[PRD] DATABASE RECORD: 346714 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/07/01
INITIAL DATE: 09/06/88
ITEM NUMBER: T32X DATE LAST CHANGED: 03/22/07
SECTION: 5312A TIME LAST CHANGED: 08:06:54

REQUESTER: JSC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5312A - SERVICES - MEDICAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 346714
ITEM NUMBER: T32X

SUBREQUESTER: JSC/SD2
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. KING2001 L01-9-1 L04-10-4 L2642 R108-3
R109-70

1. DESCRIPTION: EAFB/DFRC LANDING SITE SUPPORT

PROVIDE THE FOLLOWING MEDICAL SERVICES, FACILITIES AND EQUIPMENT IN SUPPORT OF ORBITER LANDINGS AT EAFB/DFRC.

1. PROVIDE ACCESS, 24 HOUR/DAY, TO OCCUPATIONAL MEDICAL FACILITIES FOR NASA PERSONNEL ASSIGNED TO EAFB/DFRC.
2. PROVIDE (EMS) FACILITIES, INCLUDING ACCESS TO DEFINITIVE MEDICAL CARE FACILITIES.
3. PROVIDE THE FOLLOWING:
   A. A MEDICAL EVALUATION AREA EQUIPPED FOR POSTFLIGHT EXAMINATION OF THE ORBITER CREW.
   B. A FACILITY SUITABLE FOR JSC CONDUCTED BLOOD DRAWS (AS REQUIRED). SAMPLE SEPARATION, AND URINALYSIS

COORDINATION: JSC/SD2/MICHAEL CHANDLER/281 483-2956

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: X
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/07/01
RESPONSE TRACKING: Z26156

[PRD] DATABASE RECORD: 200238 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/18/05
INITIAL DATE: 09/06/88
ITEM NUMBER: T33K DATE LAST CHANGED: 11/30/06
SECTION: 5312A TIME LAST CHANGED: 09:44:42

REQUESTER: JSC
SUBREQUESTER: JSC/SD2

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5312A - SERVICES - MEDICAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 200238
ITEM NUMBER: T33K

TEST CODE: KSC STSALL

ASSOCIATED DOC: 20028S
TRACKING NO. KING2001 L02-1-1 L04-10-4 L05-1-2 L2642
R0501-4 R109-70 R2663

1. DESCRIPTION: KSC MEDICAL SUPPORT
PROVIDE FACILITIES AND EQUIPMENT IN SUPPORT OF ORBITER LAUNCHES AND LANDINGS AT KSC. SUPPORT FOR PRE-FLIGHT AND POST-FLIGHT IS AS FOLLOWS:

A. EMERGENCY MEDICAL TRANSPORTATION REQUIREMENTS ARE SPECIFIED IN THE 5200 SECTION OF THIS DOCUMENT.

B. BIOMEDICAL MONITORING SUPPORT/FACILITIES (ON FLIGHTS WHERE ECG IS REQUIRED):
1. EQUIPMENT AND SUPPLIES FOR SIMULTANEOUS ECG SENSORING OF THE CREW MEMBERS.
2. EQUIPMENT AND SUPPLIES FOR CHECKOUT OF ECG SENSORS.
3. BONDED STORAGE FOR ECG SENSORS, BIOBELTS, HARNESS, AND SUPPLIES AND PROVIDE POST-FLIGHT TRANSPORT TO JSC.

C. ACCESS TO OCCUPATIONAL MEDICAL FACILITIES FOR NASA PERSONNEL ASSIGNED TO KSC.

D. EMERGENCY MED. SERV. FACILITIES TO SUPPORT EMS. INCLUDING ACCESS TO INTERMEDIATE AND DEFINITIVE CARE FACILITIES.

E. CREW MEDICAL EXAMINATION AND TREATMENT AREA (APPROX. 1100 SQ FT) WITH ADEQUATE SUPPLIES, EQUIPMENT AND FURNISHINGS TO EXAMINE AND TREAT (INCLUDING EMERGENCY TREATMENT) UP TO ELEVEN CREW MEMBERS. THIS AREA MUST BE IN CLOSE PROXIMITY TO AND ON THE SAME FLOOR AS CREW QUARTERS AND THE SUITING /DESUITING AREA ROOMS (3187 AND 3288 OR 3289 AND 3291).

F. BIOMEDICAL CONSOLES/OPERATING POSITIONS ARE REQUIRED AT KSC AND DFRC/EAFB AS DEFINED IN SECTION 3030 OF THIS DOCUMENT.

G. DELETED

CONTINUED

[PRD] DATABASE RECORD: 200238
ITEM NUMBER: T33K

H. ACCESS TO DEFINITIVE CARE FACILITY FOR APPROPRIATE, SPECIALIZED TREATMENT OF INJURED OR ILL CREW MEMBERS.

I. MEDICAL SYSTEM SERVICING FACILITIES PREFLIGHT AND POST-FLIGHT AS FOLLOWS:

(1) FACILITIES FOR BONDED STORAGE AND RETURN TRANSPORT TO JSC OF UN-CONSUMED FLIGHT FOOD. STORAGE TRANSPORT SHALL BE PROVIDED WITHIN TEMPERATURE OF 22 DEGREES C + OR - 3 DEGREES C (72 DEGREES F).

(2) FACILITIES FOR STORAGE, PREPARATION, AND SERVING OF PREFLIGHT FOOD IN ACCORDANCE WITH HEALTH STABILIZATIONS PROGRAM REQUIREMENTS. GROUND FACILITIES FOR FOOD STORAGE SHALL PROVIDE TEMPERATURE RANGES OF:

(a) AMBIENT: 22 DEGREES, + OR - 3 DEGREES C
(b) REFRIGERATED: 4.4 DEGREES, + OR - 3 DEGREES C
(c) FROZEN: -40 DEG C, H-30 DEG C
(d) TRANSPORT OF PREFLIGHT FOOD SHALL BE PROVIDED A TEMPERATURE OF 4.4 DEGREES, + OR - 3 DEGREES C. PROVIDE FACILITY AREA FOR MICROBIOLOGICAL SCREENING OF HIGH RISK FOODS.

(3) BONDED STORAGE SHALL BE PROVIDED FOR RADIATION MONITORING DEVICES, ONBOARD STORAGE, AND RETURN TRANSPORT POSTFLIGHT TO JSC.

(4) FACILITIES FOR WATER, WASTE MANAGEMENT, AND PERSONAL HYGIENE SYSTEMS AS FOLLOWS:

(A) WATER SAMPLING (QUANTITATIVE AND CHEMICAL ANALYSIS) AND SAMPLE TRANSPORT PREFLIGHT AND POST-TO JSC, AS REQUIRED.
(b) SOLID WASTE CLEANUP AND MICROBIOLOGICAL AND CHEMICAL SAMPLING (INCLUDE SWABS AND FLUIDS) OF BIOLOGICAL WASTES, SOLID WASTES, AND USED FOOD WASTES, AND PREPARATION OF SYSTEM FOR NEXT

CONTINUED

[PRD] DATABASE RECORD: 200238
ITEM NUMBER: T33K

FLIGHT.

(c) MICROBIOLOGICAL SAMPLING AND ANALYSIS FROM PERSONAL HYGIENE SYSTEM IN ACCORDANCE WITH THE MICROBIAL CONTAMINATION CONTROL PLAN (JSC-11859) AND PREPARATION OF SYSTEM FOR NEXT FLIGHT.

(5) FACILITY SUITABLE FOR JSC CONDUCTED BLOOD DRAW AND SAMPLE PREPARATION PRE- AND POST-FLIGHT, AND FOR URINE SAMPLE PROCESSING.

(6) FACILITY AREA (APPX. BENCH SIZE) SUITABLE FOR MICROBIOLOGICAL ACTIVITIES AND PACKAGING OF MICROBIOLOGICAL AND TOXICOLOGICAL SAMPLES FOR SHIPMENT TO JSC.

(7) BONDED STORAGE, PRE- AND POST-FLIGHT, FOR MEDICAL KITS. IF PHYSICIAN IS NOT AVAILABLE ARRANGE FOR RETURN OF THESE KITS TO JSC WITH SPECIAL SECURITY PROVISIONS.

COORDINATION: JSC/SD2/MICHAEL CHANDLER/281 483-2956

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-PH-L TA TA-C
USK-264

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/18/05
RESPONSE:
INFO ONLY:
TA-C RESPONSE IS WILCO - FOR ITEMS A THRU H AND ITEM 14, 15 AND 16.
RESPONSE IS WILCO FOR ITEM 12.
USK-264 RESPONSE IS WILCO FOR ITEMS 11, 13, AND 17.

RESPONSE TRACKING: Z26211 Z3709

[PRD] DATABASE RECORD: 315895 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/07/01
INITIAL DATE: 09/06/88
ITEM NUMBER: T34K DATE LAST CHANGED: 11/30/06

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5312A - SERVICES - MEDICAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 315895
ITEM NUMBER: T34K

SECTION: 5312A TIME LAST CHANGED: 09:46:27

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: KSC STSALL
TRACKING NO. KING2001 L01-9-1 L04-10-4 L2642 R108-3
R109-70

1. DESCRIPTION: ALL PREFLIGHT CREW FACILITIES MUST CONFORM TO THE ISOLATION REQUIREMENTS OF THE FLIGHT CREW HEALTH STABILIZATION PROGRAM STATED IN THE JSC-22538 DOCUMENT.

COORDINATION: JSC/SD2/MICHAEL CHANDLER/281 483-2956

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: TA-C

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/07/01
RESPONSE TRACKING: Z26211

[PRD] DATABASE RECORD: 255403 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/20/05
INITIAL DATE: 03/13/90
ITEM NUMBER: T35K DATE LAST CHANGED: 11/30/06
SECTION: 5312A TIME LAST CHANGED: 09:47:38

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: KSC STSALL
TRACKING NO. KING2001 L01-9-1 L04-10-4 L05-1-2 L102-9
L3105 L3706 R0501-4 R108-3 R109-70

1. DESCRIPTION: KSC MEDICAL SUPPORT

JSC REQUIRES A MINIMUM OF TWO EXAM ROOMS IN THE MEDICAL EXAM FACILITY. IN ADDITION, JSC REQUIRES OFFICE SPACE IN THE VICINITY OF THE MEDICAL EXAM FACILITIES FOR THE CREW PHYSICIANS, AND OTHER JSC MEDICAL OPERATIONS PERSONNEL FROM LAUNCH MINUS 7 DAYS TO LANDING PLUS 2 DAYS. THE SPACE WILL REQUIRE A MINIMUM OF 1 DESK, 2 TELEPHONE INSTRUMENTS (WITH 2 LINES EACH AND ACCESS) WITH AT LEAST 1 UNIT

CONTINUED

[PRD] DATABASE RECORD: 255403
ITEM NUMBER: T35K

CAPABLE OF CONNECTING TO A COMPUTER VIA A RJ11 STANDARD MODULAR CONNECTOR, A COMPUTER WITH ACCESS TO BOTH JSC EMAIL AND JSC MEDICAL RECORDS (EMR), AND A PRINTER AND A FAX.

COORDINATION: JSC/SD2/MICHAEL CHANDLER/281 483-2956

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: TA-C

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/20/05
RESPONSE TRACKING: Z3132 Z3709

[PRD] DATABASE RECORD: 256803 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/07/01
INITIAL DATE: 09/01/88
ITEM NUMBER: T36TZ DATE LAST CHANGED: 11/30/06
SECTION: 5312A TIME LAST CHANGED: 09:48:05

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. KING2001 L01-9-1 L04-10-4 L2636 R108-3
R109-70

1. DESCRIPTION: WHITE SANDS SPACE HARBOR SUPPORT

PROVIDE THE FOLLOWING MEDICAL SERVICES, FACILITIES, AND EQUIPMENT IN SUPPORT OF ORBITER LANDINGS AT WSSH:

JSC/WSTF WILL PROVIDE DISPENSARY FOR OCCUPATIONAL HEALTH SERVICE FOR NASA PERSONNEL ASSIGNED TO WSSH DURING TURNAROUND. ACCESS TO THESE FACILITIES WILL BE AVAILABLE 24 HOURS/DAY IN ACCORD WITH THE WSSH MOSIP (JSC-16299).

COORDINATION: JSC/SD2/MICHAEL CHANDLER/281 483-2956

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)

CONTINUED

[PRD] DATABASE RECORD: 256803
ITEM NUMBER: T36TZ

RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/07/01
RESPONSE TRACKING: Z26175

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/07/01
RESPONSE TRACKING: Z26200

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5312B - SERVICES - MEDICAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 12958 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/07/01
INITIAL DATE: 09/06/88
ITEM NUMBER: T1T DATE LAST CHANGED: 11/30/06
SECTION: 5312B TIME LAST CHANGED: 09:49:35

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: STSALL

ASSOCIATED DOC: 20026S 20027S 20028S
TRACKING NO. KING2001 L01-9-1 L04-10-4 L102-9 L2642
L301-2 L3920 L406-3 L507-6 L5511
L5533 L6506 R108-3 R109-91 SHAW95
PRIORITY: MANDATORY
RATIONALE: MEDICAL SUPPORT

1. DESCRIPTION: MEDICAL EXAM IN ORBITER AND MEDICAL FACILITY

PROVIDES BRIEF MEDICAL EXAM IN THE ORBITER PRIOR TO CREW EGRESS AND ACCOMPANY CREW TO THE SITE MEDICAL FACILITY. PROVIDE POSTFLIGHT MEDICAL/DEBRIEFS FOR SHUTTLE CREW MEMBERS IN THE SITE MEDICAL FACILITY.

LOCATION: NOMINAL EOM
NUMBER/TYPE: 2 JSC PHYSICIANS
TRAINING REQD: MEDICAL HAZARDS POSED BY SPACECRAFT SYSTEMS AND EMS REQUIREMENTS IN THE MEDICAL OPERATIONS REQUIREMENTS DOCUMENT, JSC-13956.
RESPON. AGENCY: JSC
DATE:
A. ARRIVAL: TWO HOURS PRIOR TO LANDING AT THE SITE MEDICAL FACILITY/NOMINAL CALL TO STATION TIME FOR LANDING CONVOY.
B. DEPART: DEPART WITH CREW IN CREW VAN, OR CTV. DEPART KSC AFTER CREW DEPARTURE FOR JSC.

REMARKS:

COORDINATION: JSC/SD2/MICHAEL CHANDLER/281 483-2956

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5312B - SERVICES - MEDICAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 12958
ITEM NUMBER: T1T

RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/07/01
RESPONSE TRACKING: Z26182 Z3980 Z5507 Z5530 Z6565
Z6919

[PRD] DATABASE RECORD: 12961 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/07/01
INITIAL DATE: 09/06/88
ITEM NUMBER: T3T DATE LAST CHANGED: 11/30/06
SECTION: 5312B TIME LAST CHANGED: 09:50:36

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: AOA KSC RTLS STSALL

ASSOCIATED DOC: 20007S 20028S
TRACKING NO. KING2001 L01-9-1 L04-10-4 L2636 L2642
L301-2 L406-3 L5511 L6506 R108-3
R109-91
PRIORITY: REQUIRED
RATIONALE: TRAINING SUPPORT

1. DESCRIPTION:
LOCATION: KSC
NUMBER/TYPE: 2 JSC PHYSICIANS
TRAINING REQD: MEDICAL HAZARDS POSED BY SPACECRAFT SYSTEMS AND EMS REQUIREMENTS IN THE MEDICAL OPERATIONS REQUIREMENTS DOCUMENT, JSC-13956
RESPON. AGENCY: JSC
DATE:
A. ARRIVAL: 1 PHYSICIAN REPORTS AT NOMINAL CALL TO STATION TIME
1 PHYSICIAN REPORTS TO LCC PRIOR TO CREW INGRESS
B. DEPART: UPON NEGATIVE RTLS, AND/OR NEGATIVE AOA, KSC; OR AFTER CREW EGRESS IN THE EVENT OF A LAUNCH SCRUB.

REMARKS: JSC CREW PHYSICIAN WITH TRIAGE TEAM STATIONED AT THE MFF JSC DEPUTY CREW PHYSICIAN IN LCC.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5312B - SERVICES - MEDICAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 12961
ITEM NUMBER: T3T

COORDINATION: JSC/SD2/MICHAEL CHANDLER/281 483-2956

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/07/01
RESPONSE TRACKING: Z26182 Z5507 Z6565

[PRD] DATABASE RECORD: 12963 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/07/01
INITIAL DATE: 09/06/88
ITEM NUMBER: T4K DATE LAST CHANGED: 11/30/06
SECTION: 5312B TIME LAST CHANGED: 09:52:01

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20007S 20028S
TRACKING NO. KING2001 L01-9-1 L04-10-4 L102-9 L2642
L301-2 L3920 L5534 R108-3 R109-91
PRIORITY: MANDATORY
RATIONALE: SAFETY

1. DESCRIPTION:
LOCATION: KSC
NUMBER/TYPE: 1 GENERAL/MEDICAL OFFICER
TRAINING REQD: MEDICAL HAZARDS POSED BY SPACECRAFT SYSTEMS AND EMS REQUIREMENTS IN THE MEDICAL OPERATIONS REQUIREMENTS DOCUMENT, JSC-13956.
RESPON. AGENCY: KSC
DATE:
A. ARRIVAL: ON STATION PRIOR TO CREW INGRESS AND 1.5 HRS PRIOR TO NOMINAL LANDING
B. DEPART: UPON CALL OF NEGATIVE RTLS, AND/OR NEGATIVE AOA, KSC, OR AFTER CREW EGRESS IN THE EVENT OF A LAUNCH SCRUB. UPON CREW EGRESS AFTER LANDING AT KSC.
REMARKS: SERVES AS COORDINATOR FOR EMERGENCY MEDICAL SERVICES IN THE LCC. JSC WILL PROVIDE PHYSICIANS FOR CREW.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5312B - SERVICES - MEDICAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 12963
ITEM NUMBER: T4K

COORDINATION: JSC/SD2/MICHAEL CHANDLER/281 483-2956

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: TA-C

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/07/01
RESPONSE TRACKING: Z2611 Z3980 Z5532

[PRD] DATABASE RECORD: 12965 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/15/06
INITIAL DATE: 09/06/88
ITEM NUMBER: T6D DATE LAST CHANGED: 05/30/07
SECTION: 5312B TIME LAST CHANGED: 10:33:02

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20007S 20028S
TRACKING NO. KING2001 L01-9-1 L02-7-2 L04-10-4 L06-9-2
L102-9 L2642 L301-2 L3920 L5511
L604-4 L703-3 L7703 L801-2 L8303
R0609-8 R108-3 R109-91 R112-6 R9002

1. DESCRIPTION:
LOCATION: KSC
NUMBER/TYPE: 1 DOD PHYSICIAN PER 2 ASTRONAUT PATIENTS ON EACH DOD HELICOPTER
TRAINING REQD: MEDICAL HAZARDS POSED BY SPACECRAFT SYSTEMS AND EMS REQUIREMENTS IN THE MEDICAL OPERATIONS REQUIREMENTS DOCUMENT, JSC-13956, AND PARTICIPATION IN THE PRE-LAUNCH OR PRE-LANDING BRIEFINGS.
RESPON.AGENCY: DDMS
DATE:
A. ARRIVAL: 10 MINS PRIOR TO LAUNCH OR TOUCHDOWN
B. DEPART: ACCORDING TO HELICOPTER SUPPORT AND DEPARTURE MATRIX (LLS 3300, ITEM T4.2D, DBR 12951).
REMARKS: PRIME ON EACH CREW EGRESS ON LANDING. DOD

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5312B - SERVICES - MEDICAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 12965
ITEM NUMBER: T6D

HELICOPTER FOR SAR AND/OR MEDEVAC ON LAUNCH OR NOMINAL LANDING. DOD HELICOPTERS ARE PRIME FOR SAR AND/OR MEDEVAC. MEDICAL MANNING MUST SUPPORT THE POSSIBILITY THAT EACH ASTRONAUT IS A PATIENT.

COORDINATION: JSC/SD2/MICHAEL CHANDLER/281 483-2956

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 10/17/06
RESPONSE: WILCO, HOWEVER, THE DOD WILL NOT PROVIDE HELICOPTER SUPPORT FOR AOA PER GUIDANCE FROM NASA/ JSC/PROGRAM OFFICE.

RESPONSE TRACKING: Z112-13 Z2709 Z3980 Z5507 Z8006 Z9002

[PRD] DATABASE RECORD: 12966 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/07/01
INITIAL DATE: 09/06/88
ITEM NUMBER: T7K DATE LAST CHANGED: 11/30/06
SECTION: 5312B TIME LAST CHANGED: 09:53:59

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: AOA KSC RTLS STSALL

ASSOCIATED DOC: 20007S 20028S
TRACKING NO. KING2001 L01-9-1 L04-10-4 L102-9 L2642 L301-2 L3920 L406-3 L5534 L6505 R108-3 R109-91
PRIORITY: MANDATORY
RATIONALE: MEDICAL MONITORING FLIGHT CREW.

1. DESCRIPTION:
LOCATION: KSC
NUMBER/TYPE: 2 BIOMEDICAL ENGINEERS
TRAINING REQD: CBSE: CONSOLE OPERATIONS AND COMMUNICATIONS AND EMS REQUIREMENTS IN THE MEDICAL OPERATIONS

CONTINUED

[PRD] DATABASE RECORD: 12966
ITEM NUMBER: T7K

REQUIREMENTS DOCUMENT, JSC-13956.
ECG BME: ECG SENSORING AND SYSTEM CHECKOUT
RESPON. AGENCY: KSC
DATE:
A. ARRIVAL: CBSE: PRIOR TO CREW INGRESS AT LAUNCH AND 1.5 HOURS PRIOR TO NOMINAL LANDING.
ECG BME: 4 HOURS PRIOR TO SENSORING.

B. DEPART: CBSE: UPON NEGATIVE RTLS, AND/OR NEGATIVE AOA, KSC, OR AFTER CREW EGRESS IN THE EVENT OF A LAUNCH SCRUB AND WHEN RELEASED BY KSC EMS COORDINATOR. UPON CREW EGRESS AFTER LANDING.
ECG BME: AT CREW INGRESS.

REMARKS: CBSE: SERVES AS A BIOMEDICAL SYSTEMS ENGINEER IN THE LCC FOR NOMINAL LAUNCH AND LANDING AND EMERGENCY MEDICAL SERVICES SUPPORT.
ECG BME: PROVIDES ECG SENSORING AND BIOBELT SYSTEM CHECKOUT AS REQUIRED FOR SPECIFIC MISSIONS.

COORDINATION: JSC/SD2/MICHAEL CHANDLER/281 483-2956

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: TA-C

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/07/01
RESPONSE TRACKING: Z26211 Z3980 Z5532 Z6565

[PRD] DATABASE RECORD: 12968 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/07/01
INITIAL DATE: 09/06/88
ITEM NUMBER: T8K DATE LAST CHANGED: 11/30/06
SECTION: 5312B TIME LAST CHANGED: 10:00:35

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20007S 20028S
TRACKING NO. KING2001 L01-9-1 L04-10-4 L2642 L301-2

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5312B - SERVICES - MEDICAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 12968
ITEM NUMBER: T8K

L5511 L703-3 L8303 R108-3 R109-91
PRIORITY: MANDATORY
RATIONALE: EMERGENCY MEDICAL CARE

1. DESCRIPTION: PROVIDE A MISSION SUPPORT TRIAGE PHYSICIAN
LOCATION: KSC
NUMBER/TYPE: 1 MEDICAL OFFICER
TRAINING REQD: MEDICAL HAZARDS POSED BY SPACECRAFT SYSTEMS AND EMS REQUIREMENTS IN THE MEDICAL OPERATIONS REQUIREMENTS DOCUMENT, JSC-13956.
RESPON. AGENCY: KSC
DATE:
A. ARRIVAL: NOMINAL CALL TO STATION TIME
B. DEPART: UPON NEGATIVE RTLS, AND/OR NEGATIVE AOA, KSC; OR AFTER CREW EGRESS IN THE EVENT OF A LAUNCH SCRUB. UPON CREW EGRESS AFTER LANDING.
REMARKS: TRIAGE PHYSICIAN AT THE MFF

COORDINATION: JSC/SD2/MICHAEL CHANDLER/281 483-2956

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: TA-C

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/07/01
RESPONSE TRACKING: Z26211 Z5507 Z8316

[PRD] DATABASE RECORD: 12970 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/18/06
INITIAL DATE: 09/06/88
ITEM NUMBER: T10D DATE LAST CHANGED: 05/30/07
SECTION: 5312B TIME LAST CHANGED: 10:33:02

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: EOM KSC STSALL TAL

ASSOCIATED DOC: 20028S
TRACKING NO. KING2001 L01-9-1 L04-10-4 L05-1-2 L06-7-3
L06-9-2 L2636 L2642 L301-2 L405-2

CONTINUED

[PRD] DATABASE RECORD: 12970
ITEM NUMBER: T10D

L407-2	L5511	L607-5	L6810	L703-3
L7911	L801-2	L8303	L8404	L906-2
L9302	R0501-4	R0607-4	R0609-8	R108-3
R109-91	R6532	R6552	R9002	SCRUB06

PRIORITY: MANDATORY
RATIONALE: MEDICAL CARE OF CREW

1. DESCRIPTION: AIRBORNE MEDICAL CARE AT THE LAUNCH SITE, TRANSOCEANIC ABORT LANDING (TAL) SITES, AND END-OF-MISSION (EOM) SITES

A. PROVIDE ONE PHYSICIAN AND TWO PARARESCUE SPECIALISTS (PJ) PER HELICOPTER TO PROVIDE MEDICAL CARE DURING POSSIBLE MEDEVAC AT KSC. PROVIDE ONE PHYSICIAN PER HELICOPTER AND ONE PJ OR EMT PER ASTRONAUT AT ALL OTHER EOM SITES.

IF AN AIRCRAFT/HELICOPTER CAPABLE OF CARRYING MORE THAN TWO ASTRONAUT PATIENTS IS USED, THE RATIO OF PHYSICIANS TO ASTRONAUTS WILL BE MAINTAINED AT ONE PHYSICIAN FOR EVERY TWO ASTRONAUTS AND THE PJ OR EMT RATIO AT ONE PER ASTRONAUT. MEDICAL MANNING MUST SUPPORT THE POSSIBILITY THAT EACH ASTRONAUT IS A PATIENT.

B. PROVIDE ONE PJ OR EMT PER ASTRONAUT AT EACH ACTIVE TAL SITE.

C. PROVIDE TWO PHYSICIANS AT EACH ACTIVE TAL SITE TO PROVIDE ADVANCED MEDICAL CARE AND OVERSEE TREATMENT PROVIDED BY NON-PHYSICIAN MEDICAL PROVIDERS. TWO ACTIVE TAL SITES WILL HAVE FIXED-WING SAR/MEDICAL AIRCRAFT SUPPORTING.

D. PROVIDE ONE CRITCAL CARE NURSE AS PART OF THE CREW OF EACH FIXED WING SAR/MEDICAL AIRCRAFT SUPPORTING TAL SITES.

E. AT LEAST ONE DOD MEDICAL PROVIDER (PHYSICIAN, NURSE, PJ, OR EMT) WILL DEPLOY TO EACH DMCF/IMCF RECEIVING ASTRONAUTS AND REMAIN THERE UNTIL RELIEVED BY THE NASA CREW SURGEON. THE MEDICAL PROVIDER WILL ACT AS A PATIENT ADVOCATE AT THE DMCF/IMCF, AND PROVIDE REPORTS ON THE ASTRONAUT(S) STATUS. THE MEDICAL PROVIDER WILL ACCOMPANY THE ASTRONAUT(S) DURING TRANSPORT, OR WILL ARRIVE AT THE DMCF/IMCF BY THE MOST EXPEDIENT MEANS POSSIBLE IF UNABLE

CONTINUED

[PRD] DATABASE RECORD: 12970
ITEM NUMBER: T10D

TO ACCOMPANY THE ASTRONAUT DURING TRANSPORT.

F. ALL MEDICAL TRANSPORTATION FROM THE SCENE TO THE DMCF/IMCF SHALL INCLUDE THESE ADVANCED LIFE SUPPORT CAPABILITIES:

1. ESTABLISHING AND MAINTAINING AN AIRWAY
2. CONTROL OF BLEEDING
3. BODY IMMOBILIZATION
4. IV FLUIDS AND MEDICATION ADMINISTRATION
5. CARDIAC DEFIBRILLATOR
6. EMERGENCY MEDICAL KIT AND ONE LITTER PER ASTRONAUT
7. TWO WAY COMMUNICATION

G. PJS FULFILLING EMT REQUIREMENTS MAY ALSO BE USED FOR SAR REQUIREMENTS.

NOTE: REFERENCE 1C AND 1D:
SUPPORTING FIXED-WING AIRCRAFT ARE NOT "SAR/MEDICAL" AIRCRAFT, BUT, RATHER AIRCRAFT USED FOR TRANSPORT OF MEDICAL PERSONNEL AND SAR. REFERENCE 1D, DOD WILL PROVIDED ONE CRITICAL CARE TRAINED NURSE FOR EACH FIXED-WING MEDICAL TEAM, AS AVAILABLE, AND NOT TO CONFLICT WITH OTHER DOD OPERATIONAL REQUIREMENTS.

TECH CONTACTS: JSC/SD2/MICHAEL CHANDLER/281 483-2956
PAFB/DDMS-M/321-494-5981

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/17/06
RESPONSE TRACKING: Z0502-4 Z2709 Z5507 Z6524 Z6545
Z6815 Z8006 Z8328 Z9002 Z9320
Z9402

[PRD] DATABASE RECORD: 526294 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/15/06
INITIAL DATE: 05/25/94
ITEM NUMBER: T10.1D DATE LAST CHANGED: 05/31/07

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5312B - SERVICES - MEDICAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 526294
ITEM NUMBER: T10.1D

SECTION: 5312B TIME LAST CHANGED: 09:35:44

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20028S

TRACKING NO.	KING2001	L01-9-1	L04-10-4	L06-7-3	L06-9-2
	L2636	L2642	L301-2	L5511	L604-4
	L7703	L906-2	L9302	R0607-4	R0609-8
	R108-3	R109-91	R6559		

1. DESCRIPTION:
   LOCATION: KSC
   NUMBER/TYPE: 1 PARARESCUEMAN PER ASTRONAUT PATIENT ON EACH DOD HELICOPTER
   TRAINING REQD: MEDICAL HAZARDS POSED BY SPACECRAFT SYSTEMS AND EMS. REQUIREMENTS IN THE MEDICAL OPERATIONS REQUIREMENTS DOCUMENT. JSC-13956.
   RESPON. AGENCY: HSFS
   DATE:
   ARRIVAL: AT NOMINAL CALL TO STATION TIME FOR LAUNCH OR NOMINAL LANDING.
   DEPART: ACCORDING TO HELICOPTER SUPPORT AND DEPARTURE MATRIX (LLS 3300, ITEM T4.2D, DBR 12951).
   REMARKS: PROVIDES RESCUE AND/OR MEDICAL CARE ON A ONE TO ONE BASIS FOR EACH SHUTTLE CREW MEMBER ON LAUNCH OR NOMINAL LANDING. MEDICAL MANNING MUST SUPPORT THE POSSIBILITY THAT EACH ASTRONAUT IS A PATIENT. DEPLOYMENT WITH THE DOD SAR/MEDEVAC HELICOPTERS.

   COORDINATION: JSC/SD2/MICHAEL CHANDLER/281 483-2956
   HSFS-M/321 494-5981

   NOTE: WILCO WITHIN AIRCRAFT LIMITATIONS, HOWEVER, DOD WILL NOT PROVIDE HELICOPTER SUPPORT FOR AOA PER GUIDANCE FROM NASA/JSC PROGRAM OFFICE.

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5312B - SERVICES - MEDICAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 526294
ITEM NUMBER: T10.1D

RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 10/17/06
RESPONSE: WILCO WITHIN AIRCRAFT LIMITATIONS, HOWEVER,
THE DOD WILL NOT PROVIDE HELICOPTER SUPPORT FOR AOA
PER GUIDANCE FROM NASA/JSC/PROGRAM OFFICE.

RESPONSE TRACKING: Z6546 Z8006 Z9320

[PRD] DATABASE RECORD: 12975 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/18/06
INITIAL DATE: 09/17/87
ITEM NUMBER: T10.2D DATE LAST CHANGED: 05/30/07
SECTION: 5312B TIME LAST CHANGED: 10:33:02

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: EAFB STSALL WSSH

ASSOCIATED DOC: 20026S 20027S
TRACKING NO. KING2001 L01-9-1 L04-10-4 L06-7-3 L2642
L301-2 L5521 L604-4 L607-5 L7703
L7911 R0607-4 R108-3 R109-91 R6559
PRIORITY: MANDATORY
RATIONALE: FLIGHT CREW MEDICAL SUPPORT

1. DESCRIPTION:
LOCATION: DFRC/EAFB, WSSH*
NUMBER/TYPE: 1 DOD PHYSICIAN PER 2 ASTRONAUT PATIENTS ON EACH DOD HELICOPTER
TRAINING REQD: MEDICAL HAZARDS POSED BY SPACECRAFT SYSTEMS AND EMS REQUIREMENTS IN THE MEDICAL OPERATIONS REQUIREMENTS DOCUMENT, JSC-13956.
RESPON. AGENCY: DDMS
DATE:
A. ARRIVAL: NOMINAL CALL TO STATION TIME
B. DEPART: ACCORDING TO HELICOPTER SUPPORT AND DEPARTURE MATRIX (LLS 3300, ITEM T4.2D, DBR 12951), AS APPLICABLE.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5312B - SERVICES - MEDICAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 12975
ITEM NUMBER: T10.2D

REMARKS: PRIME ON EACH DOD HELICOPTER FOR SAR/MEDEVAC. PROVIDES MEDICAL CARE DURING A LANDING MISHAP AT THE NOMINAL EOM SITES. MEDICAL MANNING MUST SUPPORT THE POSSIBILITY THAT EACH ASTRONAUT IS A PATIENT. MEDICAL MANNING MUST SUPPORT THE POSSIBILITY THAT EACH ASTRONAUT IS A PATIENT.

*WSSH FLIGHT SURGEON WILL BE REQUIRED FOR PLS OPPORTUNITIES AND EOM+2 AS A WEATHER ALTERNATE WITH 24 HOURS NOTIFICATION.

COORDINATION: JSC/SD2/MICHAEL CHANDLER/281 483-2956
DDMS-M/321 494-5981

NOTE: THE DOD WILL NOT PROVIDE HELICOPTER SUPPORT FOR AOA PER GUIDANCE FROM NASA/JSC PROJECT OFFICE.

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/18/06
RESPONSE:

RESPONSE TRACKING: Z2709 Z5522 Z6546 Z8006

[PRD] DATABASE RECORD: 12974 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/18/06
INITIAL DATE: 09/17/87
ITEM NUMBER: T10.3D DATE LAST CHANGED: 05/30/07
SECTION: 5312B TIME LAST CHANGED: 10:33:02

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: EAFB STSALL WSSH

ASSOCIATED DOC: 20026S 20027S
TRACKING NO. KING2001 L01-9-1 L04-10-4 L06-7-3 L2642
L301-2 L5511 L604-4 L607-5 L7703
L7911 L8005 R0607-4 R108-3 R109-91
R6559
PRIORITY: MANDATORY

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5312B - SERVICES - MEDICAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 12974
ITEM NUMBER: T10.3D

RATIONALE: FLIGHT CREW MEDICAL SUPPORT

1. DESCRIPTION:
   LOCATION: DFRC/EAFB, WSSH*
   NUMBER/TYPE: 1 EMT OR EQUIVALENT PER
   ASTRONAUT PATIENT ON EACH HELICOPTER
   TRAINING REQD: MEDICAL HAZARDS POSED BY SPACECRAFT
   SYSTEMS AND EMS REQUIREMENTS IN THE
   MEDICAL OPERATIONS REQUIREMENTS
   DOCUMENT, JSC-13956.
   RESPON. AGENCY: DDMS
   DATE:
   A. ARRIVAL: NOMINAL CALL TO STATION TIME.
   B. DEPART: ACCORDING TO HELICOPTER SUPPORT AND DEPARTURE
   MATRIX (LLS 3300, ITEM T4.2D, DBR 012951).

   REMARKS: PROVIDE MEDICAL CARE ON A ONE-TO-ONE
   BASIS IN THE DOD SAR/MEDICAL HELICOPTERS
   DURING A LANDING MISHAP AT THE NOMINAL
   EOM, AOA SITES. MEDICAL MANNING MUST SUPPORT THE
   POSSIBILITY THAT EACH ASTRONAUT IS A PATIENT.

   *WSSH EMT SUPPORT WILL BE REQUIRED FOR PLS OPPORTUNITIES
   AND EOM+2 AS A WEATHER ALTERNATE WITH 24 HOURS NOTIFICATION.

   COORDINATION: JSC/SD2/MICHAEL CHANDLER/281 483-2956
   DDMS-M/321 494-5981

   NOTE: WILCO WITHIN AIRCRAFT LIMITATIONS, HOWEVER, THE DOD WILL NOT
   PROVIDE HELICOPTER SUPPORT FOR AOA PER GUIDANCE FROM
   NASA/JSC PROGRAM OFFICE.

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/18/06
RESPONSE TRACKING: Z2709 Z3445 Z5507 Z6546 Z8006

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5312B - SERVICES - MEDICAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 12979 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/07/01
INITIAL DATE: 09/17/87
ITEM NUMBER: T10.4D DATE LAST CHANGED: 05/30/07
SECTION: 5312B TIME LAST CHANGED: 10:33:02

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: KSC STSALL TAL
TRACKING NO. KING2001 L01-9-1 L04-10-4 L2642 L301-2
L5512 R108-3 R109-91 R2716 R6559
PRIORITY: MANDATORY
RATIONALE: FLIGHT CREW MEDICAL SUPPORT

1. DESCRIPTION:
LOCATION: ACTIVE TAL SITES
NUMBER/TYPE: 1 EMT OR EQUIVALENT PER FLIGHT CREW MEMBER AT EACH SITE.
TRAINING REQD: MEDICAL HAZARDS POSED BY SPACECRAFT SYSTEMS AND EMS REQUIREMENTS IN THE MEDICAL OPERATIONS REQUIREMENTS DOCUMENT, JSC-13956.
RESPON. AGENCY: DDMS
DATE:
A. ARRIVAL: ONE DAY PRIOR TO LAUNCH
B. DEPART: AT ORBIT INSERTION
REMARKS: DEPLOYED WITH THE DOD SAR/MEDEVAC FORCES. PROVIDE SAR/MEDEVAC CAPABILITY AT THE DESIGNATED ACTIVE TAL SITES.

COORDINATION: JSC/SD2/MICHAEL CHANDLER/281 483-2956
KSC/DEAN SCHAAF/PH-L/321 861-9311
DDMS-M/321 494-5981

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/07/01
RESPONSE TRACKING: Z2709 Z5509 Z6546

[PRD] DATABASE RECORD: 12980 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/07/01
INITIAL DATE: 09/17/87
ITEM NUMBER: T10.5D DATE LAST CHANGED: 05/30/07

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5312B - SERVICES - MEDICAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 12980
ITEM NUMBER: T10.5D

SECTION: 5312B TIME LAST CHANGED: 10:33:02

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: KSC STSALL TAL
TRACKING NO. KING2001 L01-9-1 L04-10-4 L2642 L301-2
L5512 R108-3 R109-91 R2716 R6559
PRIORITY: MANDATORY
RATIONALE: FLIGHT CREW MEDICAL SUPPORT

1. DESCRIPTION:
LOCATION: ACTIVE TAL SITES
NUMBER/TYPE: 2 DOD PHYSICIANS (FLIGHT SURGEONS)
AT EACH SITE (AS AVAILABLE)
TRAINING REQD: MEDICAL HAZARDS POSED BY SPACECRAFT
SYSTEMS AND EMS REQUIREMENTS IN THE
MEDICAL OPERATIONS REQUIREMENTS
DOCUMENT, JSC-13956.
RESPON. AGENCY: DDMS
DATE:
A. ARRIVAL ONE DAY PRIOR TO LAUNCH
B. DEPART: AFTER ORBIT INSERTION
REMARKS: DEPLOYED WITH THE DOD SAR/MEDICAL FORCES
AT THE DESIGNATED ACTIVE TAL SITES.

NOTE: DOD WILL PROVIDE 2 FLIGHT SURGEONS, IF AVAILABLE,
OTHERWISE 2 PHYSICIANS WITH ATCS/ACLS AND SOMSTC
TRAINED.

COORDINATION: JSC/SD2/MICHAEL CHANDLER/281 483-2956
KSC/PH-L/DEAN SCHAAF/321 861-9311
DDMS-M/321 494-5981

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/07/01
RESPONSE TRACKING: Z2709 Z5509 Z6546

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5312B - SERVICES - MEDICAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 12971 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/07/01
INITIAL DATE: 09/06/88
ITEM NUMBER: T11K DATE LAST CHANGED: 11/30/06
SECTION: 5312B TIME LAST CHANGED: 10:34:01

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20028S
TRACKING NO. KING2001 L01-9-1 L04-10-4 L102-9 L2642
L3706 L604-4 L7703 R108-3 R109-91
PRIORITY: MANDATORY
RATIONALE: FLIGHT CREW MEDICAL TREATMENT

1. DESCRIPTION:
LOCATION: KSC
NUMBER/TYPE: 2 PARAMEDICS IN EACH OF 2 AMBULANCES
TRAINING REQD: MEDICAL HAZARDS POSED BY SPACECRAFT SYSTEMS AND EMS REQUIREMENTS IN THE MEDICAL OPERATIONS REQUIREMENTS DOCUMENT, JSC-13956.
RESPON. AGENCY: KSC
DATE:
A. ARRIVAL: NOMINAL CALL TO STATION TIME
B. DEPART: CREW DEPARTURE FROM THE SLF.

REMARKS: PROVIDES MEDICAL CARE AT THE TRIAGE SITE FOR INJURED SHUTTLE CREW MEMBERS.

COORDINATION: JSC/SD2/MICHAEL CHANDLER/281 483-2956
KSC/DON DOERR/TA-C/321 867-6387

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: TA-C

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/07/01
RESPONSE TRACKING: Z26211 Z3709 Z8009

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5312B - SERVICES - MEDICAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 12972 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/18/05
INITIAL DATE: 09/06/88
ITEM NUMBER: T12X DATE LAST CHANGED: 03/22/07
SECTION: 5312B TIME LAST CHANGED: 08:07:26

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. KING2001 L01-9-1 L04-10-4 L05-1-2 L05-3-4
L102-9 L2642 L2964 L301-2 L3706
L5511 R0501-4 R108-3 R109-91 R2938

1. DESCRIPTION:
LOCATION: EAFB/DFRC
NUMBER/TYPE: 1 MEDICAL OFFICER -EMS COORDINATOR
TRAINING REQD: MEDICAL HAZARDS POSED BY SPACECRAFT SYSTEMS AND EMS REQUIREMENTS IN THE MEDICAL OPERATIONS REQUIREMENTS DOCUMENT, JSC-13956.
RESPON. AGENCY: DFRC
DATE:
A. ARRIVAL: 2 HRS. PRIOR TO AOA OPPORTUNITY AND 2 HRS PRIOR TO LANDING.
B. DEPART: AFTER CALL FOR ORBIT OPS OR RELEASE BY MCC FLIGHT SURGEON ON LAUNCH. OR AFTER THE FLIGHT CREW DEPARTS THE ORBITER FOR THE POST-FLIGHT SCIENCE SUPPORT FACILITY (PSSF) AFTER LANDING.
REMARKS: FOLLOWING A LANDING, THE EMS COORDINATOR WILL REMAIN ON CALL UNTIL THE SHUTTLE CREW DEPARTS DFRC. AFTER THE CREW DEPARTURE, THE DFRC MEDICAL OFFICER WILL BE ON-CALL THROUGHOUT ORBITER TURNAROUND OPERATIONS UNTIL FERRY FLIGHT DEPARTURE.

COORDINATION: JSC/SD2/MICHAEL CHANDLER/281 483-2956

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: X
RESPONDER: GEORGE GRIMSHAW/661 276-3425

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5312B - SERVICES - MEDICAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 12972
ITEM NUMBER: T12X

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/25/05
RESPONSE TRACKING: Z0504-1 Z26156 Z2998 Z3709 Z5507

[PRD] DATABASE RECORD: 12973 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/07/01
INITIAL DATE: 09/06/88
ITEM NUMBER: T13D DATE LAST CHANGED: 05/30/07
SECTION: 5312B TIME LAST CHANGED: 10:33:02

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: EAFB STSALL WSSH

ASSOCIATED DOC: 20026S 20027S
TRACKING NO. KING2001 L01-9-1 L04-10-4 L2642 L301-2
L5521 R108-3 R109-91
PRIORITY: MANDATORY
RATIONALE: FLIGHT CREW MEDICAL TREATMENT

1. DESCRIPTION:
LOCATION: DFRC/EAFB, WSSH
NUMBER/TYPE: 2 EMT'S IN EACH OF 2 AMBULANCES
TRAINING REQD: MEDICAL HAZARDS POSED BY SPACECRAFT SYSTEMS AND EMS REQUIREMENTS IN THE MEDICAL OPERATIONS REQUIREMENTS DOCUMENT, JSC-13956.
RESPON. AGENCY: DDMS
DATE:
A. ARRIVAL: AT NOMINAL CALL TO STATION TIME FOR LANDING CONVOY.
B. DEPART: CTV/ASTROVAN ARRIVAL AT EXAM FACILITY.
REMARKS: PROVIDE MEDICAL CARE DURING A LANDING MISHAP AT THE NOMINAL EOM AND/OR AOA SITE.

COORDINATION: JSC/SD2/MICHAEL CHANDLER/281 483-2956
DDMS-M/321 494-5981
GEORGE GRIMSHAW/661 276-3425
BOB MITCHELL/RC1/505 524-5774

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5312B - SERVICES - MEDICAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 12973
ITEM NUMBER: T13D

RESPONDER: SIMON LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/07/01
RESPONSE TRACKING: Z2709 Z5522

[PRD] DATABASE RECORD: 12977 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/20/05
INITIAL DATE: 09/17/87
ITEM NUMBER: T16D DATE LAST CHANGED: 05/30/07
SECTION: 5312B TIME LAST CHANGED: 10:33:02

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. KING2001 L01-9-1 L04-10-4 L05-1-2 L2642
L2945 L301-2 L5521 L607-5 L7911
R0501-4 R108-3 R109-91 R2948
PRIORITY: MANDATORY
RATIONALE: MEDICAL SUPPORT COORDINATOR

1. DESCRIPTION: DOD REPRESENTATIVE AT WSSH

LOCATION: WSSH
NUMBER/TYPE: 1 DOD REPRESENTATIVE
RESPON. AGENCY: DDMS
DATE:
A. ARRIVAL: WHEN PERFORMING COMMUNICATION VERIFICATION, TWO HOURS PRIOR TO A POSSIBLE LANDING WHEN DESIGNATED THE PRIMARY AOA SITE AND TWO HOURS PRIOR TO EOM + 2 LANDINGS.
B. DEPART: AFTER THE CALL FOR ON-ORBIT OPS AND RELEASED BY THE DOD SOC; FOR AOA, WHEN RELEASED BY THE MCC FLIGHT SURGEON OR WHEN THE CREW HAS REACHED ITS LOCAL DESIGNATION (MEDICAL DEBRIEF FACILITY) OR THEY HAVE DEPARTED FOR JSC POST-LANDING. THIS RELEASE WILL COME THROUGH THE SUPPORT OPERATIONS CENTER (SOC).
REMARKS: REPRESENTS THE EMS COORDINATOR AND SERVES TO PERFORM COMMUNICATIONS VERIFICATION WITH THE FCR SURGEON PRIOR

CONTINUED

[PRD] DATABASE RECORD: 12977
ITEM NUMBER: T16D

TO ARRIVAL OF THE EMS COORDINATOR. (REFERENCED DBR 13099).

COORDINATION: JSC/SD2/MICHAEL CHANDLER/281 483-2956
DDMS-M/321 494-5981
DEAN SCHAAF/PH-L/321 861-9311

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: SIMON E. LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/22/05
RESPONSE TRACKING: Z0502-4 Z2709 Z2986 Z5522 Z8006

[PRD] DATABASE RECORD: 12978 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/23/94
INITIAL DATE: 08/08/89
ITEM NUMBER: KT17K DATE LAST CHANGED: 11/30/06
SECTION: 5312B TIME LAST CHANGED: 10:40:52

REQUESTER: KSC JSC
SUBREQUESTER: JSC/SD2 KSC/PH-L USK-426
TEST CODE: ALS ELS STSALL
TRACKING NO. DB98 KING2001 L812-1 L908-7 R109-91
R2663 R3414 R6553 SHAW94
PRIORITY: MANDATORY
RATIONALE: PERSONNEL MEDICAL SUPPORT FOR RAPID RESPONSE TEAM.

1. DESCRIPTION:
LOCATION: ALS/ELS
NUMBER/TYPE: 1 NASA PHYSICIAN (OR DESIGNEE)
TRAINING REQUIRED: MEDICAL HAZARDS POSED BY SPACECRAFT SYSTEMS

RESPONSIBLE AGENCY: KSC

DATE:
A. ARRIVAL: WITH RAPID RESPONSE TEAM
B. DEPART: WITH LAST CONTINGENT

REMARKS: PROVIDES OCCUPATIONAL MEDICINE FOR DEPLOYED OPERATIONS TEAM (DOT).

CONTINUED

[PRD] DATABASE RECORD: 12978
ITEM NUMBER: KT17K

NOTE: KSC WILL PROVIDE 1 JBOSC PHYSICIAN, APPROPRIATELY TRAINED IN SPACECRAFT SYSTEMS HAZARDS, TO ACCOMPANY THE RAPID RESPONSE TEAM TO THE ALS/ELS SITE. THE DEPARTURE FROM THE ALS/ELS SITE OF THE PHYSICIAN WILL DEPEND ON THE ONGOING OPERATION, SITE OF THE OPERATION, AND THE LEVEL OF MANPOWER.

COORDINATION: KSC/PH-L/TIM O'BRIEN/321 861-9303
KSC/USK-426/MIKE KUTA/321 861-3890

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: TA-C

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/13/94
RESPONSE TRACKING: Z26211 Z3408 Z6562

[PRD] DATABASE RECORD: 13096 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/07/01
INITIAL DATE: 09/06/88
ITEM NUMBER: T20K DATE LAST CHANGED: 11/30/06
SECTION: 5312B TIME LAST CHANGED: 10:41:47

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: KSC SLF STSALL

ASSOCIATED DOC: 20028S
TRACKING NO. KING2001 L01-9-1 L04-10-4 L102-9 L2642
L3706 R108-3 R109-91
PRIORITY: MANDATORY
RATIONALE: MEDICAL SUPPORT

1. DESCRIPTION: EMERGENCY MEDICAL SERVICES (EMS)

ONE PHYSICIAN (EMS COORDINATOR) WILL BE ON-CALL AND AVAILABLE TO SUPPORT A CONTINGENCY LANDING AT KSC WITHIN 4 HOURS AFTER NOTIFICATION.

COORDINATION: JSC/SD2/MICHAEL CHANDLER/281 483-2956

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5312B - SERVICES - MEDICAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 13096
ITEM NUMBER: T20K

LRD/321-867-9300

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: TA-C

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/07/01
RESPONSE TRACKING: Z26211 Z3709

[PRD] DATABASE RECORD: 16177 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/07/01
INITIAL DATE: 08/31/88
ITEM NUMBER: T21Z DATE LAST CHANGED: 11/30/06
SECTION: 5312B TIME LAST CHANGED: 10:43:05

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. KING2001 L01-9-1 L04-10-4 L2633 R108-3
R109-91

1. DESCRIPTION: OCCUPATIONAL HEALTH SERVICES FOR TURNAROUND CREW

LOCATION: WSSH
NUMBER/TYPE: 1 RN AND 1 EMT OR BETTER FOR EACH 12 HOUR SHIFT
DATE:
A. ARRIVAL: 24 HOURS POST LANDING
B. DEPART: TERMINATION OF TURNAROUND ACTIVITIES
REMARKS: PROVIDE OCCUPATIONAL HEALTH SERVICES FOR THE TURNAROUND CREW 24 HOURS A DAY IN ACCORD WITH WSSH MOSIP (JSC 16299).

COORDINATION: JSC/SD2/MICHAEL CHANDLER/281 483-2956
WSTF/BOB MITCHELL/RC1/505 524-5774
KSC/LOUIE GARCIA/PH-L/321 867-6196

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5312B - SERVICES - MEDICAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 16177
ITEM NUMBER: T21Z

RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/07/01
RESPONSE TRACKING: Z26146

[PRD] DATABASE RECORD: 530470 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/05/01
INITIAL DATE: 07/28/95
ITEM NUMBER: T22DEK DATE LAST CHANGED: 06/04/07
SECTION: 5312B TIME LAST CHANGED: 09:58:28

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: EAFB KSC WSSH

ASSOCIATED DOC: 20026S 20027S 20028S
TRACKING NO. KING2001 L01-9-1 L04-10-4 L506-1 L605-1
L606-3 L608-5 L7008 L7706 L7920
R108-3 R109-91 R7903

1. LOCATION: KSC, EAFB AND WSSH

2. NUMBER/TYPE: 4 FIRE/CRASH/RESCUE PERSONNEL (F/C/R)

3. TRAINING REQD: RECUMBENT SEAT EXTRACTION TRAINING.

4. RESPON. AGENCY: HSFS/KSC

5. DATE; NO LATER THAN 30 DAYS PRIOR TO MISSION, SD2 WILL NOTIFY KSC AND HSFS/O MISSION COORDINATOR (321) 494-5116 TO ACTIVATE THE REQUIREMENT. SD2 WILL REQUIRE A WRITTEN CONFIRMATION FROM PARTICIPANTS STATING THAT THE REQUIREMENT IS BEING IMPLEMENTED.

A. ARRIVAL: MOVE FROM THEIR POSITION IN THE LANDING CONVOY TO THE CTV AFTER A NOMINAL LANDING IS DECLARED SAFE.

B. DEPART: ALL FLIGHT CREW EGRESSED FROM ORBITER AND/OR

CONTINUED

[PRD] DATABASE RECORD: 530470
ITEM NUMBER: T22DEK

RELEASED BY LEAD FLIGHT SURGEON.

6. REMARKS: DURING NOMINAL ORBITER EGRESS, PROVIDE ASSISTANCE TO RECUMBENT CREWMEMBERS WHO HAVE SPENT EXTENDED AMOUNTS OF TIME IN SPACE (>30 DAYS).

2 F/C/R PERSONNEL POSITIONED OUTSIDE ORBITER ON EITHER SIDE OF ORBITER HATCH IN WHITE ROOM

2 F/C/R PERSONNEL REMAIN AT THE BACK OF THE CTV

REFER TO REPORT ON EXPEDITION CREW EGRESS EVALUATION FOR DETAILED PROCEDURES AND TRAINING.

REF: MEDICAL OPERATIONS REQUIREMENTS DOCUMENT, JSC-13956

COORDINATION: JSC/SD2/MICHAEL CHANDLER
281 483-2956
ER/MIKE GAWEL
321 853-8118

TECHNICAL CONTACT: KSC/SGS-322/FIRE CHIEF/
321 853-9251
HSFS-M/321 494-5981
HSFS-O/FREDDIE MCKINNEY/321 494
-5116

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
SUBSUPPLIER: DDMS-T
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/02/01
RESPONSE TRACKING: Z108-5

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: MIKE GAWEL/321 853-8118

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5312B - SERVICES - MEDICAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 530470
ITEM NUMBER: T22DEK

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/07/02
RESPONSE TRACKING: Z109-11 Z7928

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-TA-C SGS-322

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/31/02
RESPONSE TRACKING: Z109-8 Z8022

[PRD] DATABASE RECORD: 554049 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/05/01
INITIAL DATE: 12/08/99
ITEM NUMBER: T23DKT DATE LAST CHANGED: 05/31/07
SECTION: 5312B TIME LAST CHANGED: 09:58:25

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: STSALL TAL

ASSOCIATED DOC: 20007S 20026S 20027S 20028S
TRACKING NO. KING2001 L01-9-1 L04-10-4 L10303 L912-1
R108-3 R109-91 SCRUB06

1. DESCRIPTION: MORTUARY SERVICES

UPON REQUEST FROM NASA, MORTUARY SERVICES WILL BE PROVIDED FOR ASTRONAUT CREW MEMBERS FOLLOWING A CONTINGENCY DURING LAUNCH, LANDING, OR ON-ORBIT OPERATIONS. SERVICES WILL CONSIST OF AIR TRANSPORTATION OF REMAINS TO DOVER AFB, DELAWARE (DOVER PORT MORTUARY), POST-MORTEM EXAMINATIONS, REPROCESSING OF REMAINS, AND AIR TRANSPORTATION TO A LOCATION DESIGNATED BY NEXT OF KIN OR OTHER COMPETENT LEGAL AUTHORITY.

JSC WILL PROVIDE ALL SUPPORT MATERIALS (TO INCLUDE MEDICAL AND DENTAL RECORDS, DNA RECORDS, RADIOGRAPHS, AND CONSENT FORMS) REQUIRED BY ARMED FORCES INSTITUTE OF PATHOLOGY FOR POST-MORTEM IDENTIFICATION AND PROCESSING.

FOR CONTINGENCIES AT KENNEDY SPACE CENTER (KSC), KSC WILL PROVIDE A SUITABLE HOLDING AREA FOR DECEDENTS AND COMPLETE ALL REQUIRED

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5312B - SERVICES - MEDICAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 554049
ITEM NUMBER: T23DKT

PROCESSING ACTIONS PRIOR TO TRANSPORT.

COORDINATION: JSC/SD2/MICHAEL CHANDLER 281 483-2956
KSC/PH-L/DEAN SCHAAF/321 861-9311/9300
KSC/TA-C2/PHILIP SCARPA, MD/321 867-6386
HSFS-M/321 494-5981

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/ 321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/05/01
RESPONSE TRACKING: Z10304

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: PH-L TA-C2

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/05/01
RESPONSE TRACKING: Z10304

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
SUBSUPPLIER: Z10304

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/05/01
RESPONSE TRACKING: Z10304

[PRD] DATABASE RECORD: 582017 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/20/05
INITIAL DATE: 04/20/05
ITEM NUMBER: T24D DATE LAST CHANGED: 05/30/07
SECTION: 5312B TIME LAST CHANGED: 10:33:24

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: ALPHSE STSALL

ASSOCIATED DOC: 20070S
TRACKING NO. L05-4-3 R0505-4 SCRUB06

1. DESCRIPTION: FRENCH LANGUAGE SPECIALIST AT ISTRES AIR BASE

CONTINUED

[PRD] DATABASE RECORD: 582017
ITEM NUMBER: T24D

REQUIRED FOR ACCURATE MEDICAL COMMUNICATION WITH THE FRENCH AIR FORCE MEDICAL LIAISON OFFICER WHEN TRANSFERRING INJURED SPACE SHUTTLE CREWMEMBERS TO THE FRENCH MEDICAL SYSTEM.

DOD WILL PROVIDE, AT ISTRESS AIR BASE, ONE FRENCH LANGUAGE SPECIALIST PROFICIENT IN THE USE OF MEDICAL TERMINOLOGY.

LANGUAGE SPECIALIST WILL ACCURATELY INTERPRET AND COMMUNICATE MEDICAL STATUS AND CONDITION OF INJURED CREWMEMBERS FROM THE DOD TRIAGE DOCTOR TO THE FRENCH AIR FORCE MEDICAL LIAISON OFFICER.

NOTE: FOR TAL SUPPORT AT ISTRES AIR BASE, FRANCE, DOD WILL PROVIDE WHEN AVAILABLE, ONE TRANSLATOR, PROFICIENT IN THE FRENCH LANGUAGE AND IN THE USE OF MEDICAL TERMINOLOGY, TO BE UTILIZED AS STATED IN THE PRD REQUEST. PRESENTLY DOD ANTICIPATES IT CAN PROVIDE A TRANSLATOR FOR EACH SCHEDULED SPACE SHUTTLE MISSION. HOWEVER, AVAILABILITY OF THE TRANSLATOR FOR THIS SUPPORT IS SECONDARY TO OTHER DOD OPERATIONAL REQUIREMENTS, AS DETERMINED BY THE TASKING DOD COMMANDER. IN THE EVENT DOD IS UNABLE TO PROVIDE THE ASSET, DOD RECOMMENDS NASA CONTACT OTHER GOVERNMENT OR CONTRACTED AGENCIES TO PROVIDE THE REQUESTED SERVICE.

POC: JSC/SD2/BOB PATLACH/RPATLACH@WYLEHOU.COM/281 212-1396

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/18/05
RESPONSE TRACKING: Z114-1

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5313 - SERVICES - PUBLIC AFFAIRS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 320937 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/03/90
INITIAL DATE: 07/03/90
ITEM NUMBER: E1K DATE LAST CHANGED: 06/06/07
SECTION: 5313 TIME LAST CHANGED: 08:57:30

REQUESTER: ER
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 L3818 R109-71 R2880

1. DESCRIPTION: PROVIDE POSITIONS FOR THE 45 SW INSTALLATION OF ONE TOPS UNIT AND ASSOCIATED EQUIPMENT IN EACH OF THE FOLLOWING KSC LOCATIONS: NEWS CENTER, GRANDSTAND & THE PAO BOOTH FISHBOWL. U.S. AIR FORCE PAO PERSONNEL WILL MAN THESE POSITIONS DURING COMPLEX 39 LAUNCHES AND MISSION OPERATIONS. AUDIO LINE REQUIREMENTS FOR THE TOPS UNITS ARE LISTED IN SECTION 2760.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: XA-E1

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/17/90
RESPONSE TRACKING: Z2866 Z3827

[PRD] DATABASE RECORD: 520274 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/14/99
INITIAL DATE: 06/10/92
ITEM NUMBER: D4E DATE LAST CHANGED: 05/31/07
SECTION: 5313 TIME LAST CHANGED: 08:25:01

REQUESTER: HSFS
SUBREQUESTER: HSFS-X
TEST CODE: SPECIAL

ASSOCIATED DOC: MODE8
TRACKING NO. L4601 R109-71 R6563 R9305
PRIORITY: REQUIRED
RATIONALE: REQUIRED TO PREPARE DoD FORCES FOR ASTRONAUT RESCUE AND RECOVERY.

1. DESCRIPTION: PUBLIC AFFAIRS (PA) FOR MODE VIII EXERCISE

PROVIDE THE FOLLOWING SUPPORT FOR MODE VIII EXERCISE:

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5313 - SERVICES - PUBLIC AFFAIRS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 520274
ITEM NUMBER: D4E

A. 45 SW PUBLIC AFFAIRS SPECIALIST TO MAN THE DOD SUPPORT OPERATIONS CENTER (SOC) AT PAFB DURING EXERCISE.

B. 45 SW PUBLIC AFFAIRS SPECIALIST TO RESPOND TO MEDIA INQUIRES AND COORDINATE PRESS/VIDEO RELEASES PRIOR TO, DURING AND AFTER THE EXERCISE.

TECH CONTACT: (D) HSFS-X/321 494-2143
(E) 45 SW/PA/321 494-5933

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/14/99
RESPONSE TRACKING: Z4626 Z6522 Z9305

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5314 - SERVICES - SECURITY AND SAFETY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 336313 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/26/89
INITIAL DATE: 05/26/89
ITEM NUMBER: K3E DATE LAST CHANGED: 12/01/06
SECTION: 5314 TIME LAST CHANGED: 10:54:06

REQUESTER: KSC
SUBREQUESTER: I-TA-G USK-705
TEST CODE: CCAFS S61A01 STSALL
TRACKING NO. DB98 KING2001 R109-38 R2821 SCRUB06
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR PROTECTION OF RESOURCES AND PERSONNEL.

1. TYPE/ITEM SERVICE: SAFETY AND SECURITY - CCAFS
2. RA OR SA:
3. DATES, AMTS. OR CHECK FOR REQ'D ITEM/ SERVICE:
4. PURPOSE/REMARKS/ SPEC. INSTRUCT: REQUIRED AT SRB DISASSEMBLY FACILITY DURING LIFTING OF SRB'S FROM WATER, PROPELLANT DRAIN, FLUSH, AND PURGE. SECURITY TO PROVIDE LIMITED ACCESS CONTROL AND BADGE CONTROL FOR HAZARDOUS OPERATIONS AT DISASSEMBLY FACILITY UNTIL ALL EOD'S AND SRB EMPTY SEGMENTS ARE SAFE. SUPPORT REQUIRED APPROX ONE DAY BEFORE ARRIVAL OF SPENT SRB'S UNTIL RELEASED BY THE ON-SITE DISASSEMBLY FACILITY SUPERVISOR (APPROX 7 DAYS). DISASSEMBLY SITE SUPERVISOR TO CALL KSC SCHEDULING AT 321 853-2436 WITH EXACT TIME SUPPORT IS TO START. SUPPORT TIME WILL ALSO BE PUT ON THE KSC INTEGRATED CONTROL SCHEDULE.

NOTE 1: SAFETY REQUIRED THROUGH FUEL TANK DEPRESSURIZATION & LINEAR SHAPE CHARGE REMOVAL.

NOTE 2: SECURITY IS REQUIRED THROUGH AFT SKIRT DEMATE & TRANSFER TO USBI - THEN SECURITY TO SUPPORT USBI.

TECH CONTACT: JOHN MULLEN/USK-705/321 853-5682

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5314 - SERVICES - SECURITY AND SAFETY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 336313
ITEM NUMBER: K3E

SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/05/89
RESPONSE TRACKING: Z2821

[PRD] DATABASE RECORD: 336879 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/02/89
INITIAL DATE: 06/02/89
ITEM NUMBER: K5E DATE LAST CHANGED: 12/01/06
SECTION: 5314 TIME LAST CHANGED: 12:29:46

REQUESTER: KSC
SUBREQUESTER: KSC/TA-G
TEST CODE: CCAFS KSC STSALL
TRACKING NO. DB98 KING2001 R109-38 R2830 SCRUB06
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR PROTECTION OF RESOURCES AND PERSONNEL.

1. TYPE/ITEM
   SERVICE: SECURITY - KSC/CCAFS
2. RA OR SA: SA
3. DATES, AMTS.
   OR CHECK FOR
   REQ'D ITEM/
   SERVICE:
4. PURPOSE/REMARKS/
   SPEC. INSTRUCT: PROVIDE SECURITY ESCORT FOR HARDWARE/EQUIPMENT
   MOVEMENT TO/FROM CCAFS/KSC OR WITHIN CCAFS/KSC.

   TECH CONTACT: WILLIAM RIDDLE/TA-G/321 867-4612

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/05/89
RESPONSE TRACKING: Z2823

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5314 - SERVICES - SECURITY AND SAFETY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 337691 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K7D DATE LAST CHANGED: 05/31/07
SECTION: 5314 TIME LAST CHANGED: 07:55:22

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: FERRY S5022.200 STSALL

ASSOCIATED DOC: 25022S 25044S
TRACKING NO. DB98 KING2001 L4314 R109-38 R2848
SCRUB06
PRIORITY: MANDATORY
RATIONALE: CRITICAL RESOURCE PROTECTION

1. TYPE/ITEM
SERVICE: SECURITY - FERRY DOD LANDING SITES
2. RA OR SA:
3. DATES, AMTS.
OR CHECK FOR
REQ'D ITEM/
SERVICE:
4. PURPOSE/REMARKS/
SPEC. INSTRUCT: PROVIDE ON-SITE SECURITY SUPPORT AT ORBITER/SCA
FERRY DOD LANDING SITES.

TECH CONTACT: ROBERT SCHMIDT/TA-G/321 867-3426
RON SIMMONS/SGS-5500/321 853-6072
HSFS-H/281-483-1351

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/01/91
RESPONSE TRACKING: Z2756 Z2840 Z4340

[PRD] DATABASE RECORD: 338203 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/13/05
INITIAL DATE: 09/18/89
ITEM NUMBER: K8Z DATE LAST CHANGED: 12/01/06
SECTION: 5314 TIME LAST CHANGED: 12:32:59

REQUESTER: KSC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5314 - SERVICES - SECURITY AND SAFETY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 338203
ITEM NUMBER: K8Z

SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 L3408 R0501-1 R0504-8
R109-38 R2832 SCRUB06
PRIORITY: REQUIRED
RATIONALE: TERTIARY LANDING SITE BECOMES MANDATORY FOR LANDING AT WSSH.

1. TYPE/ITEM SERVICE: SECURITY COORDINATION RADIO COMMUNICATIONS
2. RA OR SA:
3. DATES, AMTS. OR CHECK FOR REQ'D ITEM/ SERVICE:
4. PURPOSE/REMARKS/ FOR A PLANNED EOM LANDING THE WSSH TOWER OPERATOR WILL COORDINATE FIELD OPERATIONS BY RADIO USING HAFB SECURITY TALK GROUP D6B FOR THE FIRST 24 HOURS. THEREAFTER, WSMR SECURITY TALK GROUP 0941 WILL BE USED UNTIL SCA LIFTOFF WITH THE SECURITY FORCE TO CONTROLLING PERSONNEL, VEHICLE ACCESS AND LAKE BED MOVEMENT. THE HAFB SECURITY FORCES WILL BE RESPONSIBLE FOR CONTROL OF VEHICLES ACCESSING THE LAKE BED AREA UNTIL WSMR RESOURCES BECOME AVAILABLE.

TECH CONTACT:
KSC/LOUIE GARCIA/PH-L/321 867-6196
KSC/MIKE KUTA/USK-426/321 861-3890
KSC/RON SIMMONS/SGS-5550/321 853-6072/7651

SPEC. INSTRUCT:

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

CONTINUED

[PRD] DATABASE RECORD: 338203
ITEM NUMBER: K8Z

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/13/05
RESPONSE TRACKING: Z0504-5 Z2825 Z3450

[PRD] DATABASE RECORD: 339819 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/02/90
INITIAL DATE: 02/02/90
ITEM NUMBER: T9Z DATE LAST CHANGED: 12/01/06
SECTION: 5314 TIME LAST CHANGED: 12:34:17

REQUESTER: JSC
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. KING2001 L001-11 L3625 R109-38 SCRUB06

1. TYPE/ITEM
   SERVICE: SECURITY COORDINATION - WSSH
2. RA OR SA:
3. DATES, AMTS.
   OR CHECK FOR
   REQ'D ITEM/
   SERVICE:
4. PURPOSE/REMARKS/
   SPEC. INSTRUCT: WSSH TOWER WILL COORDINATE ON FIELD OPERATIONS
   BY RADIO WITH SECURITY FORCES FOR CONTROLLING
   PERSONNEL AND VEHICLE ACCESS AND LAKEBED MOVEMENT
   TO SUPPORT AOA/ELS.

   TECHNICAL CONTACT:

   KSC/LOUIE GARCIA/PH-L/321-867-6196
   KSC/MIKE KUTA/USK-426/321-861-3890
   KSC/RON SIMMONS/SGS-5500/321-853-6072

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/15/90
RESPONSE TRACKING: Z3623

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5314 - SERVICES - SECURITY AND SAFETY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 339819
ITEM NUMBER: T9Z

[PRD] DATABASE RECORD: 340541 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K10E DATE LAST CHANGED: 12/01/06
SECTION: 5314 TIME LAST CHANGED: 12:36:19

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 R109-38 R2829 SCRUB06
PRIORITY: REQUIRED
RATIONALE: TERTIARY LANDING SITE BECOMES MANDATORY FOR LANDING AT WSSH.

1. TYPE/ITEM SERVICE: SECURITY AT WHITE SANDS SPACE HARBOR
2. RA OR SA: SA
3. DATES, AMTS. OR CHECK FOR REQ'D ITEM/ SERVICE:
4. PURPOSE/REMARKS/ SPEC. INSTRUCT: PROVIDE LOCAL FULL-TIME SECURITY WHILE THE ORBITER AND/OR PAYLOADS ARE ON SITE FOR THE ORBITER, PAYLOADS AND FACILITIES AND VISITOR CONTROL. PERIODIC ADDITIONAL SECURITY IS REQUIRED FOR HAZARDOUS OPERATIONS.

TECH CONTACT: KSC/LOUIE GARCIA/PH-L/321 867-6196
KSC/MIKE KUTA/USK-426/321 861-3890
KSC/RON SIMMONS/SGS-5500/321-853-6072

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/05/89

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5314 - SERVICES - SECURITY AND SAFETY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 340541
ITEM NUMBER: K10E

RESPONSE TRACKING: Z2720 Z2822

[PRD] DATABASE RECORD: 340914 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K11Z DATE LAST CHANGED: 12/01/06
SECTION: 5314 TIME LAST CHANGED: 12:37:31

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 R109-38 R2832
PRIORITY: REQUIRED
RATIONALE: TERTIARY LANDING SITE BECOMES MANDATORY FOR LANDING AT WSSH.

1. TYPE/ITEM SERVICE: OPERATIONAL AND INDUSTRIAL SAFETY - WSSH
2. RA OR SA: SA
3. DATES, AMTS. OR CHECK FOR REQ'D ITEM/ SERVICE:
4. PURPOSE/REMARKS/ SPEC. INSTRUCT: PROVIDE OPERATIONAL AND INDUSTRIAL SAFETY AT WSSH IN SUPPORT OF ORBITER AND GSE OPERATIONS.

TECH CONTACT: KSC/PH-L/LOUIE GARCIA/321 867-6196
KSC/USK-426/MIKE KUTA/321 867-3890

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/02/89
RESPONSE TRACKING: Z2825

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5314 - SERVICES - SECURITY AND SAFETY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 248725 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/16/96
INITIAL DATE: 05/18/89
ITEM NUMBER: K13EZ DATE LAST CHANGED: 12/01/06
SECTION: 5314 TIME LAST CHANGED: 12:41:28

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 L7904 R109-38 R2832
SCRUB06
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR ACCESS TO WSMR/HAFB

1. TYPE/ITEM
SERVICE: BADGING AT WSSH

2. RA OR SA:
3. DATES, AMTS.
OR CHECK FOR
REQ'D ITEM/
SERVICE:
4. PURPOSE/REMARKS/
SPEC. INSTRUCT: PROVIDE LOCAL BADGING FOR ACCESS TO WSSH AREA.

TECH CONTACT: KSC/PH-L/LOUIE GARCIA/321 867-6196
KSC/USK-426/MIKE KUTA/321 861-3890
KSC/SGS-5500/RON SIMMONS/321-853-6072

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/16/96

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 07/16/96
RESPONSE TRACKING: Z2825 Z7910

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5314 - SERVICES - SECURITY AND SAFETY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 341666 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K14X DATE LAST CHANGED: 03/22/07
SECTION: 5314 TIME LAST CHANGED: 08:07:57

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 R109-38 R2809 R2823
SCRUB06
PRIORITY: MANDATORY
RATIONALE: SECURITY REQUIREMENT FOR RESOURCE PROTECTION.

1. TYPE/ITEM
   SERVICE: SECURITY SUPPORT - DFRC
2. RA OR SA: SA
3. DATES, AMTS.
   OR CHECK FOR
   REQ'D ITEM/
   SERVICE:
4. PURPOSE/REMARKS/
   SPEC. INSTRUCT: DFRC PROVIDE LOCAL FULL-TIME SECURITY FOR THE
   ORBITER AND ORBITER FACILITIES, BADGING AND
   VISITOR CONTROL, AND LOCK AND KEY CONTROL.
   PERIODIC ADDITIONAL SECURITY IS REQUIRED FOR
   HAZARDOUS OPERATIONS.

   TECH CONTACT: KSC/DEAN SCHAAF/PH-L/321 861-9311
   KSC/MIKE KUTA/USK-426/321-861-3980

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/30/89
RESPONSE TRACKING: Z2811

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5314 - SERVICES - SECURITY AND SAFETY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD:	339640	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	LLS	APPROVAL DATE:	04/11/90
		INITIAL DATE:	04/11/90
ITEM NUMBER:	T15KX	DATE LAST CHANGED:	03/22/07
SECTION:	5314	TIME LAST CHANGED:	08:08:36

REQUESTER: JSC
SUBREQUESTER: JSC/CA4
TEST CODE: EAFB KSC STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. KING2001 L004-2 L03-1-1 R109-38 R2809
R3510 SCRUB06
PRIORITY: REQUIRED
RATIONALE: FLIGHT CREW SAFETY

1. DESCRIPTION: FLIGHT CREW SECURITY - KSC/DFRC

KSC AND DFRC ARE REQUIRED TO PROVIDE ALL SECURITY/PROTECTIVE SERVICES FOR THE SUPPORT OF FLIGHT CREW OPERATIONS, TO INCLUDE (BUT NOT LIMITED TO) THE FOLLOWING:

1. DEVELOPMENT OF PROTECTIVE MEASURES AND PROCEDURES FOR FLIGHT CREW GROUND TRANSPORTATION VEHICLES.
2. EVALUATE, ESTABLISH, AND MONITOR ACCESS CONTROLS AND PROCEDURES CONCERNING FLIGHT CREW FACILITIES INCLUDING (BUT NOT LIMITED TO) CREW QUARTERS, SUIT ROOMS, READY ROOMS, AND DURING HEALTH STABILIZATION PROGRAMS AS APPLICABLE.
3. ENSURE FLIGHT CREW OPERATIONS SUPPORT PERSONNEL ARE INVESTIGATED AS APPROPRIATE.
4. ENSURE, DURING MANNED OPERATIONS, PERSONNEL SECURITY INVESTIGATIONS ARE PERFORMED AS APPROPRIATE ON INDIVIDUALS OCCUPYING MISSION-CRITICAL POSITIONS. INVESTIGATIONS ARE TO BE PROCESSED UNDER THE AUTHORIZED PERSONNEL IDENTIFICATION PROGRAM (APIP) OR EQUIVALENT. SIGNIFICANT UNFAVORABLE INFORMATION AND PROPOSED ACTION CONCERNING JSC CIVIL SERVICE OR CONTRACTOR PERSONNEL WILL BE COORDINATED WITH THE JSC SECURITY OFFICE FOR EVALUATION.

COORDINATION: JSC/CA4/ROBERT HANLEY/281 244-8654
KSC/TA-G/ROBERT SCHMIDT/321 867-3426

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)

CONTINUED

[PRD] DATABASE RECORD: 339640
ITEM NUMBER: T15KX

SUBSUPPLIER: TA-G

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/12/90
RESPONSE TRACKING: Z3505

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS Z3505
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/17/90
RESPONSE:

RESPONSE TRACKING: Z3505

[PRD] DATABASE RECORD: 342237 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/28/90
INITIAL DATE: 03/28/90
ITEM NUMBER: X16E DATE LAST CHANGED: 03/22/07
SECTION: 5314 TIME LAST CHANGED: 08:09:02

REQUESTER: DFRC
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. KING2001 L3125 R109-38 R2809
PRIORITY: MANDATORY
RATIONALE: SAFETY

1. TYPE/ITEM
   SERVICE: SECURITY SUPPORT - EAFB
2. RA OR SA: SA
3. DATES, AMTS.
   OR CHECK FOR
   REQ'D ITEM/
   SERVICE:
4. PURPOSE/REMARKS/
   SPEC. INSTRUCT: FOR EAFB, PROVIDE SPECTATOR CONTROL AND TRAFFIC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5314 - SERVICES - SECURITY AND SAFETY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 342237
ITEM NUMBER: X16E

CONTROL FOR ORBITER MISSIONS. PROVIDE AREA SECURITY OF EAFB PROPERTY.

TECHNICAL CONTACT: GEORGE GRIMSHAW/661-276-3425

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/28/90
RESPONSE TRACKING: Z3155

[PRD] DATABASE RECORD: 342480 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K17E DATE LAST CHANGED: 12/01/06
SECTION: 5314 TIME LAST CHANGED: 12:49:07

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 R109-38 R2814 SCRUB06
PRIORITY: REQUIRED
RATIONALE: REQUIRED SUPPORT FOR DFRC LANDING SUPPORT.

1. TYPE/ITEM SERVICE: AIRFIELD ESCORT AT EAFB
2. RA OR SA: SA
3. DATES, AMTS. OR CHECK FOR REQ'D ITEM/ SERVICE:
4. PURPOSE/REMARKS/ SPEC. INSTRUCT: PROVIDE A REPRESENTATIVE AND VEHICLE FROM THE AFFTC AIRFIELD MANAGER TO ESCORT AND ASSIST IN CONVOY PRE-POSITIONING AND MOVEMENT.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5314 - SERVICES - SECURITY AND SAFETY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 342480
ITEM NUMBER: K17E

TECH CONTACT: KSC/DEAN SCHAAF/PH-L/321 861-9311
KSC/MIKE KUTA/USK-426/321 861-3980

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/19/89
RESPONSE TRACKING: Z2805

[PRD] DATABASE RECORD: 342817 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/21/88
INITIAL DATE: 11/21/88
ITEM NUMBER: K18D DATE LAST CHANGED: 05/31/07
SECTION: 5314 TIME LAST CHANGED: 08:00:31

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DODALS DODELS S61A03 STSALL

TRACKING NO. DB98 KING2001 L2741 R109-38 SCRUB06
PRIORITY: MANDATORY
RATIONALE: SECURITY REQUIREMENT FOR RESOURCE PROTECTION.

1. TYPE/ITEM
   SERVICE: SECURITY SUPPORT-DOD ALS/ELS
2. RA OR SA: SA
3. DATES, AMTS.
   OR CHECK FOR
   REQ'D ITEM/
   SERVICE:
4. PURPOSE/REMARKS/
   SPEC. INSTRUCT: PROVIDE SECURITY SERVICES DURING ORBITER GROUND TURNAROUND OPERATIONS AT A DOD ALS/ELS. SERVICES WOULD INCLUDE ACCESS CONTROL, LOCAL FULL-TIME SECURITY FOR THE ORBITER, PAYLOADS AND NASA ASSIGNED FACILITIES. IF ADEQUATE SECURITY CANNOT BE PROVIDED, DOD WILL PROVIDE ASSISTANCE IN OBTAINING LOCAL SECURITY SERVICE.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5314 - SERVICES - SECURITY AND SAFETY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 342817
ITEM NUMBER: K18D

TECH CONTACT: KSC/TIM O'BRIEN/PH-L/321 861-9303
KSC/MIKE KUTA/USK-426/321 861-3890
(D) HSFS-0/321-494-5116

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/21/88
RESPONSE TRACKING: Z2756

[PRD] DATABASE RECORD: 346453 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K24Z DATE LAST CHANGED: 12/01/06
SECTION: 5314 TIME LAST CHANGED: 12:52:31

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 R109-38 R2832 SCRUB06
PRIORITY: MANDATORY
RATIONALE: SAFETY - REQUIRED FOR WSSH LANDING SUPPORT.

1. TYPE/ITEM
   SERVICE: SAFETY SHOWER IN PAD AREA, WSSH
2. RA OR SA:
3. DATES, AMTS.
   OR CHECK FOR
   REQ'D ITEM/
   SERVICE:
4. PURPOSE/REMARKS/
   SPEC. INSTRUCT: ONE SAFETY SHOWER WILL BE PROVIDED AT EACH SUMP,
   AND ONE AT THE RECHARGER IN THE DESERVICE PAD
   AREA.

TECH CONTACT: KSC/PH-L/LOUIE GARCIA/321 867-6196
KSC/USK-426/MIKE KUTA/321 861-3890

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5314 - SERVICES - SECURITY AND SAFETY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 346453
ITEM NUMBER: K24Z

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/02/89
RESPONSE TRACKING: Z26146 Z2825

[PRD] DATABASE RECORD: 346679 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/02/89
INITIAL DATE: 06/02/89
ITEM NUMBER: K25E DATE LAST CHANGED: 12/01/06
SECTION: 5314 TIME LAST CHANGED: 12:54:34

REQUESTER: KSC
SUBREQUESTER: KSC/TA-G
TEST CODE: CCAFS STSALL
TRACKING NO. DB98 KING2001 R109-38 R2830
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR PROTECTION OF RESOURCE AND PERSONNEL.

1. TYPE/ITEM
   SERVICE: SECURITY - CCAFS
2. RA OR SA: SA
3. DATES, AMTS.
   OR CHECK FOR
   REQ'D ITEM/
   SERVICE:
4. PURPOSE/REMARKS/
   SPEC. INSTRUCT: PROVIDE SECURITY SERVICES TO KSC ASSIGNED
   FACILITIES AND/OR OPERATIONS CONDUCTED ON CCAFS
   IN ACCORDANCE WITH EXISTING KSC/ER AGREEMENTS.

   TECH CONTACT: WILLIAM RIDDLE/TA-G/321 867-4612

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/05/89
RESPONSE TRACKING: Z2823

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5314 - SERVICES - SECURITY AND SAFETY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 346679
ITEM NUMBER: K25E

[PRD] DATABASE RECORD: 18778 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/02/89
INITIAL DATE: 06/02/89
ITEM NUMBER: K28E DATE LAST CHANGED: 12/01/06
SECTION: 5314 TIME LAST CHANGED: 13:02:18

REQUESTER: KSC
SUBREQUESTER: KSC/SA-B
TEST CODE: CCAFS KSC STSALL
TRACKING NO. DB98 KING2001 R109-38 R2830
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR PROTECTION OF RESOURCES AND PERSONNEL.

1. DESCRIPTION: SAFETY SUPPORT - KSC/CCAFS

PROVIDE SAFETY SERVICES TO KSC ASSIGNED FACILITIES AND/OR OPERATIONS CONDUCTED ON CCAFS IN ACCORDANCE WITH EXISTING KSC/ER AGREEMENTS.

TECH CONTACT: SA-B/S.A. MINUTE/321 861-7901

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/05/89
RESPONSE TRACKING: Z2823

[PRD] DATABASE RECORD: 20605 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/17/95
INITIAL DATE: 01/16/90
ITEM NUMBER: K30X DATE LAST CHANGED: 03/22/07
SECTION: 5314 TIME LAST CHANGED: 08:09:38

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L KSC/TA-G
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S 25022S
TRACKING NO. DB98 KING2001 L3601 L3722 L3731
L4314 R109-38 R5807 SCRUB06

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5314 - SERVICES - SECURITY AND SAFETY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 20605
ITEM NUMBER: K30X

PRIORITY: MANDATORY
RATIONALE: SECURITY REQUIREMENT FOR RESOURCE PROTECTION.

1. DESCRIPTION: MINIMUM DFRC SECURITY REQUIREMENTS

A.> MINIMUM G.S.E PROTECTION/DESERVICE AREA PHYSICAL SECURITY:

1. CHAIN LINK FENCE W/TOP GUARD, CONSTRUCTED TO KSC NRP PLAN STANDARDS.

2. PROTECTIVE LIGHTING FOR PERIMETER OUTSIDE FENCE TO A DISTANCE OF AT LEAST 30 FEET.

3. MAINTENANCE OF 30 FOOT CLEAR ZONES INSIDE AND OUTSIDE "MDD" PERIMETER FENCE IN ACCORDANCE WITH THE KSC NRP PLAN.

4. "RESTRICTED AREA" SIGNS EVERY 100 FT. ON THE EXTERIOR OF THE FENCE.

5. AT LEAST ONCE PER SHIFT, A PHYSICAL CHECK OF THE INTEGRITY OF THE FENCE AND FACILITY FOR POSSIBLE TAMPERING OR FORCED ENTRY.

6. ACCESS TO THE MDD AREA WILL BE BASED UPON VERIFICATION OF PROPER IDENTIFICATION MEDIA AND PROPER AREA ACCESS AUTHORIZATIONS (DRYDEN OR KSC AREA PERMIT OR TEMPORARY ACCESS AUTHORIZATIONS-TAA).

B.> MINIMUM MANPOWER FOR PROTECTION OF THE ORBITER AND SHUTTLE CARRIER AIRCRAFT REQUIRED FROM L-3 HOURS TO DEPARTURE:

1. ALL SECURITY FORCE MEMBERS WILL BE U.S. CITIZENS & SECRET CLEARED.

2. TWO PERSONS FOR ENTRY CONTROL POINTS FOR MDD (1/24/7 POSTS EACH):
   A. ONE AT THE MDD ENTRANCE/BADGE EXCHANGE.
   B. ONE AT THE MDD ROAD ENTRANCE.

3. FOUR PERSON RAPID RESPONSE TEAM.

4. ONE ROVING PATROL OFFICER(1/24/7)INSIDE THE MDD & FENCED AREA.

5. ONE ROVING VEHICLE PATROL(1/24/7)EXTERIOR TO AREA A FENCED

CONTINUED

[PRD] DATABASE RECORD: 20605
ITEM NUMBER: K30X

PERIMETER.

6. ONE SECURITY GUARD FOR THE PAYLOAD STORAGE AREA WHEN REQUIRED (AS DIRECTED BY KSC).

7. APPROPRIATE SUPERVISOR FOR 24 HOUR, 7 DAY A WEEK COVERAGE.

C.> MINIMUM EQUIPMENT/FACILITIES:

1. APPROPRIATE RADIO AND TELECOMMUNICATIONS EQUIPMENT TO ADEQUATELY MAINTAIN A CONSTANT COMMUNICATIONS CAPABILITY BETWEEN EACH STATIC AND MOBILE GUARD POST, THE KSC SECURITY REP, THE ONSHIFT DFRC SECURITY REP, AND THE EDWARDS AIR FORCE BASE SECURITY POLICE.

2. SIDE ARMS AND AMMUNITION FOR EACH GUARD POST AND SUPERVISOR. AUXILIARY WEAPONS AND AMMUNITION TO BE AVAILABLE FOR THE EMERGENCY RESPONSE TEAM.

3. NIGHT VISION DEVICES, IF AVAILABLE FROM INVENTORY.

4. CLOTHING/UNIFORM ACCESSORIES (LBE) APPROPRIATE TO SEASON/ WEATHER SITUATION.

5. FLASHLIGHTS (DURING HOURS OF DARKNESS)

6. APPROPRIATE VEHICLES IN ADEQUATE NUMBERS TO SUPPORT ALL GUARD POSTS AND SUPERVISORS. A MIMIMUM OF ONE 4X4 VEHICLE FOR EXTERNAL PERIMETER PATROL/SUPPORT IS REQUIRED.

7. SECURITY CONTAINERS TO PROTECT CLASSIFIED INFORMATION OR MATERIAL, IF REQUIRED.

8. DEDICATED OFFICE SPACE WITHIN THE AREA A OPERATIONAL COMPLEX FOR THE KSC SECURITY REPRESENTATIVE OR THE ON-SHIFT DFRC SECURITY REPRESENTATIVE. PROVIDE AN AREA WITH PRIVACY FOR INTERVIEWS/ INVESTIGATIVE ACTIVITY. PROVIDE TELEPHONE ACCESS TO CIRCUITS.

D.> SECURITY REQUIREMENTS/TRAINING:

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5314 - SERVICES - SECURITY AND SAFETY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 20605
ITEM NUMBER: K30X

1. ALL GUARDS AND SECURITY REPRESENTATIVES MUST MEET ALL SAFETY TRAINING AND BADGING REQUIREMENTS FOR AREA TO WHICH THEY ARE ASSIGNED OR OVER WHICH THEY HAVE COGINZANCE.

NOTE: NASA CLS SECURITY PROGRAM MANAGER (TA-E2) WILL PROVIDE A SPECIFIC SECURITY PLAN FOR DFRC OUTLINING SECURITY REQUIREMENTS THE PLAN WILL BE BASED UPON WRITTEN DETAILS OF DFRC IMPLEMENTATION OF THESE PHYSICAL SECURITY REQUIREMENTS.

TECH CONTACT: KSC/ROBERT SCHMIDT/TA-G/321 867-3426
KSC/DEAN SCHAAF/PH-L/321 861-9311
RON SIMMONS/SGS-5500/321-853-6072

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/24/95
RESPONSE TRACKING: Z3508 Z3570 Z3733 Z3879 Z3905
Z4340 Z5805 Z6926

[PRD] DATABASE RECORD: 520816 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/01/07
INITIAL DATE: 08/25/92
ITEM NUMBER: K32D DATE LAST CHANGED: 05/31/07
SECTION: 5314 TIME LAST CHANGED: 08:44:19

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L KSC/TA-G
TEST CODE: STSALL TAL ZARAGOZA

ASSOCIATED DOC: 20057S
TRACKING NO. DB98 KING2001 L4721 L5323 L6002
L8316 R0702-1 R109-38 R8310 SCRUB06
PRIORITY: MANDATORY
RATIONALE: SECURITY REQUIREMENT FOR RESOURCE PROTECTION.

1. DESCRIPTION: MINIMUM SECURITY REQUIREMENTS AT ZARAGOZA AIR BASE, SPAIN

1. MANPOWER:

CONTINUED

[PRD] DATABASE RECORD: 520816
ITEM NUMBER: K32D

A. A BILINGUAL, FULLY QUALIFIED, SECURITY POLICE NCO OR SOMEONE CONTRACTED BY DOD TO ACT AS DOD SECURITY REPRESENTATIVE. WITHIN 24 HOURS OF A LANDING, PROVIDE THREE (3) ADDITIONAL BILINGUAL, FULLY QUALIFIED SECURITY POLICE NCO'S TO ENSURE AROUND THE CLOCK PRESENCE OF AT LEAST ONE SUCH INDIVIDUAL. HSFS WILL PROVIDE ASSISTANCE IN INTERPRETING AND TRANSLATING SECURITY INFORMATION ON SITE.

B. SUFFICIENT NUMBERS OF ADEQUATELY TRAINED SECURITY PERSONNEL TO MEET REQUIREMENTS OF PARAGRAPHS 5, 6, & 7. PERSONNEL COULD BE REQUIRED TO STAND POST FOR LONG PERIODS OF TIME IN REMOTE AREAS AND UNDER EXIGENT CONDITIONS.

C. ADEQUATE SECURITY PERSONNEL TO SUPPORT VIP VISITS, PRESS INTERFACES AND OTHER PUBLIC AFFAIRS MATTERS AS REQUIRED FOLLOWING A LANDING.

2. TRAINING:

A. SPECIFIC LAUNCH, LANDING AND RECOVERY REQUIREMENTS FOR SECURITY FORCES & RESPONSE TEAM MEMBERS ARE TO BE PROVIDED BY THE NASA GOM (PH-L) & THE NASA CLS SECURITY PROGRAM MGR. (TA-G). TRAINING WILL CONSIST OF:

(1) INITIAL AND (PERIODIC) RECURRENT TRAINING.
(2) CLASSROOM INSTRUCTION, PRACTICAL APPLICATION AND SIMULATED LANDING DRILLS.

B. THE NASA CLS SECURITY MANAGER AND THE DOD SECURITY REPRESENTATIVE WILL PROVIDE SAFETY AND SECURITY TRAINING TO QUALIFY SUPPORTING PERSONNEL FOR UNESCORTED ACCESS WITHIN NASA OPERATIONAL AREAS.

3. EQUIPMENT:

A. APPROPRIATE RADIO EQUIPMENT TO MAINTAIN A CONSTANT COMMUNICATIONS CAPABILITY BETWEEN THE DOD SECURITY REPRESENTATIVE AND EACH SENTRY AND RESPONSE TEAM.

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ITEM NUMBER: K32D

B. ALL SPANISH SECURITY FORCES SUPPORTING NASA OPERATIONS WILL BE ARMED AND EQUIPPED BY THE KINGDOM OF SPAIN.

C. DOD SECURITY FORCE PERSONNEL WILL BE PROPERLY EQUIPPED IN ACCORDANCE WITH DOD/USAF REGULATIONS.

D. VEHICLES:

(1) PROVIDE AN ALL TERRAIN VEHICLE FOR SECURITY MANAGERS (NASA, DOD AND SAF SECURITY REPRESENTATIVES) USE IN SUPPORT OF SSP SECURITY OPERATIONS.

(2) TYPES AND NUMBERS OF ALL TERRAIN VEHICLES ADEQUATE TO SUPPORT MOBILE RESPONSE TEAMS CALLED FOR IN PARAGRAPHS 6 & 7.

(3) A VEHICLE FOR THE MOBILE PATROL CALLED FOR IN PARAGRAPH 6.A.

E. NASA WILL PROVIDE PROTECTIVE MASKS/EMERGENCY BREATHING EQUIPMENT FOR SECURITY FORCES IF REQUIRED.

F. GSA APPROVED SECURITY CONTAINERS TO SAFEGUARD CLASSIFIED INFORMATION AND MATERIAL AS REQUIRED.

G. SECURITY LIGHTING, ROPES, STANCHIONS AND SANDBAGS (TO SECURE STANCHIONS) PER PARAGRAPHS 6 & 7. NASA SECURITY WILL PROVIDE THE ROPES, STANCHIONS AND SANDBAGS NECESSARY TO SET UP THE 60 METER INNER PERIMETER.

4. SECURITY PERIMETERS:

A. ESTABLISH THE FOLLOWING PERIMETERS AROUND THE ORBITER VEHICLE (OV), DEFINED BY ROPE/STANCHION BARRIERS:

OPERATIONAL ENVIRONMENT	PERIMETER RADIUS
(1) INITIAL LANDING/WHEEL STOP	400 M
(2) ORBITER TOWING	200 M

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[PRD] DATABASE RECORD: 520816
ITEM NUMBER: K32D

(3) PARKING/DESERVICE AREA, OUTER PERIMETER 400 M

ABOVE INDICATED PERIMETERS/DISTANCES REPRESENT NORMS AND MAY BE ADJUSTED BY THE NASA GOM OR SECURITY REPRESENTATIVE TO ACCOMMODATE UNIQUE TERRAIN FEATURES OR OTHER OPERATIONAL CONSTRAINTS.

B. PROVIDE PROTECTIVE LIGHTING AROUND SECURITY PERIMETERS DURING HOURS OF DARKNESS. DIRECT LIGHTS OUTWARD TO ILLUMINATE POTENTIAL AVENUES OF APPROACH.

C. POST BILINGUAL RESTRICTED/HAZARDOUS AREA SIGNS PROVIDED BY NASA AT 30 METER INTERVALS ON THE PERIMETER DURING RECOVERY/TURNAROUND OPERATIONS.

5. MINIMUM PROTECTION DURING THE ABSENCE OF SHUTTLE SUPPORT TEAM PERSONNEL:

A. PERIODIC ROVING SURVEILLANCE OF ALL SHUTTLE SUPPORT EQUIPMENT AND FACILITIES.

B. PERIODIC CHECKS OF SHUTTLE SUPPORT FACILITIES AT LEAST ONCE EVERY 4 HOURS.

C. REPORT AND DOCUMENT ALL SECURITY VIOLATIONS, AND BREAK-INS OR MISHAPS TO NASA PH-L AND TA-G BY THE MOST EXPEDIENT MEANS. WITHIN 72 HOURS OF NOTIFICATION OF AN INCIDENT, THE ASSIGNED HSFS REPRESENTATIVE WILL PROVIDE A PRELIMINARY WRITTEN REPORT OF THE INCIDENT FOR HSFS AND NASA REVIEW FOR APPROPRIATE ADJUDICATION.

D. IN THE EVENT OF A BREAK-IN OR DAMAGE TO SHUTTLE SUPPORT EQUIPMENT FACILITIES, PROVIDE SENTRIES AT THE SCENE TO PROTECT EQUIPMENT AND EVIDENCE. SENTRIES SHALL MAINTAIN PHYSICAL CONTROL UNTIL RELEASED BY A NASA/HSFS REPRESENTATIVE.

E. MAINTAIN A 20 METER FIRE, SAFETY PROTECTION AND SECURITY CLEAR ZONE AROUND ALL SHUTTLE SUPPORT EQUIPMENT AND FACILITIES.

CONTINUED

[PRD] DATABASE RECORD: 520816
ITEM NUMBER: K32D

6. MINIMUM PROTECTION REQUIREMENTS FROM LAUNCH MINUS 1 HR UNTIL LANDING.

   A. POST A VEHICULAR PATROL ON THE EAST PERIMETER PAD ACCESS ROAD TO OBSERVE AVENUES OF APPROACH SOUTH OF THE BASE PERIMETER FENCE LINE.

      NOTE: REQUIREMENTS OF PARAGRAPHS 6.B. - 6.D. REMAIN VALID UNTIL THE ORBITER IS SECURED AT THE PARKING/DESERVICING AREA AND SECURITY FORCES HAVE BEEN AUGMENTED BY ADDITIONAL DOD/NASA SECURITY PERSONNEL.

   B. ESTABLISH SENTRIES AT ALL FLIGHTLINE ENTRY POINTS FOR RUNWAY 30L AND SOUTH RAMP AREAS TO BLOCK UNAUTHORIZED PERSONNEL.

   C. PROVIDE TWO MOBILE TWO-MAN SECURITY RESPONSE TEAMS (SRT).

   D. ESTABLISH A TRAFFIC CONTROL POINT ON PIRINEOS STR. DIRECTLY ACROSS FROM THE EAST END OF RUNWAY 30L.

   E. CONDUCT A SWEEP OF THE RUNWAY ENVIRONMENT TO ENSURE THAT THE AREA IS CLEAR OF POSSIBLE INTRUDERS AND UNAUTHORIZED PERSONNEL/ ANIMALS.

7. MINIMUM PROTECTION REQUIREMENTS FROM LANDING UNTIL DEPARTURE OF THE OV/SCA:

   A. IMMEDIATELY AFTER OV LANDING AND WHEEL STOP:

      (1) ESTABLISH AN INITIAL 400 METER RADIUS SECURITY PERIMETER PER PARAGRAPH 4.

      (2) ESTABLISH A SINGLE ENTRY CONTROL POINT (ECP) TO CONTROL ACCESS TO THE AREA WITHIN THE PERIMETER.

      (3) MAN THE ECP WITH A U.S. CITIZEN HOLDING AT LEAST A SECRET (NASA/DOD) PERSONAL SECURITY CLEARANCE.

      (4) PROVIDE SECURITY ESCORT FOR ASTRONAUT TRANSFER TO MEDICAL

CONTINUED

[PRD] DATABASE RECORD: 520816
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TREATMENT FACILITIES, AS REQUIRED.

(5) PROVIDE VIP (ASTRONAUT) SECURITY SERVICES IF ASTRONAUTS ARE HOSPITALIZED AT A FACILITY OFF BASE.

B. DURING OV TOWING, MAINTAIN A 200 METER RADIUS SECURITY PERIMETER PER PARAGRAPH 4.

C. AT THE PARKING/DESERVICE AREA:

(1) ESTABLISH A 400 METER RADIUS OUTER SECURITY PERIMETER PER PARAGRAPH 4 WITH ONE ECP.

(2) MAN THE ECP WITH A U.S. CITIZEN HOLDING AT LEAST A SECRET (NASA/DOD) PERSONAL SECURITY CLEARANCE.

(3) RESTRICT ENTRY INTO ESTABLISHED SECURITY AREAS TO INDIVIDUALS APPROVED BY THE NASA GOM OR NASA SECURITY REPRESENTATIVE.

(4) DESIGNATE A SECURITY SUPERVISOR FOR EACH SHIFT.

D. ESTABLISH SECURITY/RESTRICTED AREAS AROUND THE SHUTTLE CARRIER AIRCRAFT (SCA) AND THE OV PAYLOAD, IF REMOVED. SECURITY REQUIREMENTS FOR THESE POSTS WILL BE DETERMINED BY THE NASA GOM OR HIS DESIGNATED REPRESENTATIVE.

8. INSTITUTE A MEMORANDUM OF UNDERSTANDING OR SIMILIAR WRITTEN AGREEMENT WITH THE SPANISH AIR FORCE SECURITY FORCES WHICH OUTLINES ROLES, RESPONSIBILITIES, TASKINGS AND INTERFACE RELATIONSHIPS FOR SECURITY SUPPORT DESCRIBED HEREIN.

9. PUBLISH A SECURITY PLAN FOR ZARAGOZA AB WHICH SATISFIES REQUIREMENTS NORMALLY APPLIED TO SUPPORTING DOD BASES AND PROVIDE A COPY TO NASA PH-L AND TA-G.

TECH CONTACT: KSC/ROBERT SCHMIDT/TA-G/321 867-3426
KSC/TOM FRIERS/PH-L/321 861-9348
KSC/MIKE KUTA/USK-426/321 861-3890

CONTINUED

[PRD] DATABASE RECORD: 520816
ITEM NUMBER: K32D

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: NOACK SEE RESPONSE RESPONSE DATE: 02/01/07
RESPONSE:
DDMS RESPONSE: WILCO WITH THE FOLLOWING EXCEPTIONS:

PARA 1.A.: DDMS WILL SUPPORT WITHIN CAPABILITY BUT CANNOT ASSURE 24 HR RESPONSE TIME NOR TOTAL OF (3) BILINGUAL NCOS.

PARA 3.A.: DEPLOYED DOD PERSONNEL WILL BE EQUIPPED WITH RADIOS. BOTH NASA AND DOD ASSUME AVAILABILITY OF SAF RADIOS TO MEET THIS REQUIREMENT.

PARA 3.D.: HSFS WILL PROVIDE ON-SITE VEHICLES AS AVAILABLE AND WILL REQUEST MAXIMUM ASSISTANCE FROM THE SAF IN OBTAINING ADDITIONAL VEHICLES.

RESPONSE TRACKING: Z5213 Z5320 Z6019 Z6112 Z6209
Z8328

[PRD] DATABASE RECORD: 520853 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/01/07
INITIAL DATE: 08/31/92
ITEM NUMBER: K33DEK DATE LAST CHANGED: 05/31/07
SECTION: 5314 TIME LAST CHANGED: 09:10:17

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L KSC/TA-G
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S 25044S
TRACKING NO. DB98 KING2001 L4726 L5317 L8406
R0702-1 R109-38 SCRUB06 SHAW95
PRIORITY: MANDATORY
RATIONALE: SECURITY REQUIREMENT FOR WSSH LANDING.

1. DESCRIPTION: WSSH MINIMUM SECURITY REQUIREMENTS FOR WSMR

CONTINUED

[PRD] DATABASE RECORD: 520853
ITEM NUMBER: K33DEK

MINIMUM GROUND SUPPORT EQUIPMENT PROTECTION/DESERVICE AREA PHYSICAL SECURITY:

1. MAINTAIN A 30-FOOT SAFETY/SECURITY CLEAR ZONE AROUND SPACE SHUTTLE CRITICAL HARDWARE IN ACCORDANCE WITH EXISTING DOD PHYSICAL REGULATIONS AND KSC NASA RESOURCE PROTECTION PLAN.

2. NASA "RESTRICTED AREA" SIGNS EVERY 100 FEET ON THE 1,250 FOOT EXTERIOR PERIMETER AND AT ENTRANCE CONTROL POINTS, WRITTEN IN BOTH ENGLISH AND SPANISH.

3. AT LEAST ONCE PER SHIFT, DOD CONTRACT GUARD FORCE CONDUCTS A PHYSICAL CHECK OF THE NASA FENCE AND FACILITY FOR POSSIBLE TAMPERING OR FORCED ENTRY.

4. ROPE AND STANCHION BARRIER FOR THE 1,250 FOOT EXTERIOR PERIMETER AROUND THE OV DESERVICE AREA WITH "RESTRICTED AREA" SIGNS EVERY 100 FEET ON THE EXTERIOR OF THE PERIMETER AND AT ENTRANCES, WRITTEN IN BOTH ENGLISH AND SPANISH.

MINIMUM MANPOWER FOR PROTECTION OF THE ORBITER AND SHUTTLE CARRIER AIRCRAFT REQUIRED WITHIN 24 HOURS OF LANDING THROUGH RECOVERY:

1. ALL SECURITY FORCE MEMBERS WILL BE U.S. CITIZENS AND SECRET CLEARED.

2. HELICOPTER SUPPORT IN THE EVENT OF SPECIFIC SECURITY REQUIREMENT (THREAT, SECURITY CONCERN, INCIDENT, ETC.) WHICH COULD IMPACT NSTS RECOVERY OPERATIONS.

3. TWO PERSON ENTRY CONTROL POINT FOR DESERVICE AREA.

4. TWO FOUR-PERSON RAPID RESPONSE TEAMS.

5. ADEQUATE NUMBER OF DOD TRAINED SECURITY PERSONNEL TO PROTECT THE OV TURNAROUND OPERATION AT THE 1,250 FOOT EXTERIOR PERIMETER.

6. ADEQUATE NUMBER OF DOD TRAINED SECURITY PERSONNEL AND PROPERLY EQUIPPED VEHICLE FOR PAYLOAD (PL) PROTECTION AND MOVEMENT AS REQUESTED BY NASA/KSC SECURITY REPRESENTATIVE.

CONTINUED

[PRD] DATABASE RECORD: 520853
ITEM NUMBER: K33DEK

7. IF THE OV IS ON THE LAKEBED WHEN ACCEPTING SECURITY RESPONSIBILITY FROM HOLLOMAN AFB SECURITY, TWO FOUR-PERSON MOBILE SECURITY FORCE FOR LAKEBED PROTECTION OF THE OV WILL BE ESTABLISHED AT 1,250 FEET AROUND OV.

8. ONE PERSON STATIC SECURITY POST AT PRESS SITE ROAD AND SCA PARKSITE FOR ACCESS CONTROL.

9. APPROPRIATE SUPERVISION FOR 24-HOUR, 7-DAY A WEEK COVERAGE.

MINIMUM MANPOWER FOR SECURITY OF ACCESS ROADWAYS TO NASA LANDING AREA, PRESS SITE AREA, AND NASA OPERATION AREA AT EOM AND WITHIN 50 MINUTES FROM NOTIFICATION OF AN ELS/ALS OR AOA. DOD CONTRACT SECURITY GUARD MAY BE UTILIZED UNTIL DOD SECURITY FORCES ARE AVAILABLE:

1. ONE PERSON STATIC SECURITY POST AT:
   A. ROAD 10 AND ROAD 7 INTERSECTION
   B. EAST END OF ROAD 10, VICINITY OF CHUCK SITE
   C. ROAD 10 AND TOWWAY, CONTROLLING ACCESS INTO THE ADMIN. AREA.
   D. ROAD 10 AND PRESS SITE ROAD

MINIMUM EQUIPMENT/FACILITIES:

1. ONE RADIO FOR EACH STATIC AND MOBILE POST AND ONE FOR THE DESERVICE AREA ENTRY CONTROL POINT, THE KSC SECURITY MANAGER, THE GROUND OPERATIONS MANAGER, THE RAPID RESPONSE TEAM, THE SCA PARKSITE ENTRY CONTROL POINT, AND THE PAYLOAD STORAGE AREA ENTRY CONTROL POINT (NASA/KSC SECURITY WILL FURNISH).

2. GAS MASKS FOR TOXIC HAZARDS (SPILLS, SPLASHES, OR LEAKS) TO BE COORDINATED AND FURNISHED BY NASA SECURITY.

3. SENTRIES TO BE ARMED IN ACCORDANCE WITH DOD ELEMENT TABLE OF EQUIPMENT (T/E).

4. TWO NIGHT VISION DEVICES (NODS). NASA RRT SECURITY FORCES WILL HANDCARRY 2 NODS FOR UTILIZATION AS REQUIRED.

CONTINUED

[PRD] DATABASE RECORD: 520853
ITEM NUMBER: K33DEK

5. CLOTHING/UNIFORM ACCESSORIES APPROPRIATE TO SEASON/WEATHER SITUATION (ANNEX L, HSFS OPLAN APPLIES).

6. FLASHLIGHTS.

7. VEHICLES TO SUPPORT MOBILE POSTS (ANNEX L, DDMS OPLAN APPLIES).

8. SECURITY CONTAINERS TO PROTECT CLASSIFIED INFORMATION OR MATERIAL TO BE UTILIZED AT THE DIRECTION OF THE NASA/KSC SECURITY REP.

9. OFFICE SPACE FOR THE NASA/KSC SECURITY REPRESENTATIVE WITH TELEPHONE & ACCESS TO LOCAL & LONG DISTANCE NETWORK.(HARVEST BARE/HOUSE TRAILER

10. ACCESS TO ALL-TERRAIN (4X4) VEHICLES BY NASA/KSC SECURITY REP.

11. POINT-TO-POINT COMMUNICATIONS BETWEEN THE DESERVICE AREA ENTRY CONTROL POINT, THE SCA PARKSITE ENTRY CONTROL POINT, THE PAYLOAD STORAGE AREA ENTRY CONTROL POINT, AND THE NASA/KSC SECURITY REPRESENTATIVE'S OFFICE. THIS MAY BE BY TELEPHONE OR FIELD PHONE.

12. ADMINISTRATIVE SUPPLIES TO SUPPORT THE DOD SECURITY FORCES TURNAROUND OPERATION.

13. SECURITY SEALS AND EQUIPMENT FOR CRASH-OUT GATES (NASA/KSC SECURITY TO FURNISH).

14. SAND BAGS TO SECURE PERIMETER STANCHIONS.

15. CYALUME SAFETY LIGHTS FOR NIGHT OPERATIONS WILL BE FURNISHED BY NASA/KSC SECURITY REPRESENTATIVE.

SECURITY REQUIREMENTS/TRAINING:

1. NASA SECURITY WILL PROVIDE A SPECIFIC SECURITY PLAN FOR WSSH OUTLINING NASA SECURITY REQUIREMENTS.

2. UPON THE ARRIVAL OF THE NASA RRT, THE NASA CLS SECURITY MANAGER WILL PROVIDE NASA SPECIFIC RECOVERY/TURNAROUND SECURITY AND

CONTINUED

[PRD] DATABASE RECORD: 520853
ITEM NUMBER: K33DEK

OPERATIONAL REQUIREMENTS, TRAINING AND COORDINATION TO WSMR SECURITY FORCES PRIOR TO THEIR ACCEPTING SECURITY RESPONSIBILITIES FROM HAFB AF SECURITY FORCES.

TECH CONTACTS: KSC/LOUIE GARCIA/PH-L/321 867-6196
KSC/MIKE KUTA/USK-426/321 861-3890
KSC/ROBERT SCHMIDT/TA-G/321 867-3426

POINT OF CONTACT: MIKE GAWEL/321 853-8118 (DSN 467-8650)

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: NOACK SEE RESPONSE RESPONSE DATE: 02/01/07
RESPONSE:
DOD RESPONSE IS WILCO FOR THE FOLLOWING:
MINIMUM MANPOWER FOR PROTECTION; PARAGRAPHS 2, 3, 4, 5, 6 AND 7
MINIMUM EQUIPMENT/FACILITIES; PARAGRAPHS 3, 5 AND 7 SECURITY
REQUIREMENTS AND TRAINING; PARAGRAPH 3

DOD SUPPORT PERSONNEL WILL BE CLOTHED/ACCESSORIZED (REFERENCE:
MINIMUM EQUIPMENT/FACILITIES, PARAGRAPH 5) IN ACCORDANCE WITH DOD
DIRECTIVE AND HSFS WILL PROVIDE SHUTTLE HAZARD/INITIAL SECURITY
REQUIREMENT TRAINING (REFERENCE: SECURITY REQUIREMENTS/TRAINING,
PARAGRAPH 3) TO SECURITY PERSONNEL SUPERVISORS.

RESPONSE TRACKING: Z8301 Z8418

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: NOACK SEE RESPONSE RESPONSE DATE: 02/01/07
RESPONSE:
ER RESPONSE IS WILCO FOR THE FOLLOWING: REF. MINIMUM GROUND SUPPORT:
PARAGRAPHS 1 THROUGH 4; REF. MINIMUM MANPOWER FOR PROTECTION: PARAS.
1, 8, & 9; REF. MINIMUM MANPOWER FOR SECURITY: PARA. 1; REF.
MINIMUM EQUIPMENT: PARAS. 1, 2, 6, AND 8 THROUGH 14.

CONTINUED

[PRD] DATABASE RECORD: 520853
ITEM NUMBER: K33DEK

RESPONSE TRACKING: Z4773 Z5210 Z5402 Z5516 Z5531
Z8417 Z8418

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: PH-L TA-G USK-426

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 02/01/07
RESPONSE:
KSC RESPONSE IS WILCO FOR THE FOLLOWING: REF. MINIMUM
EQUIPMENT/FACILITIES: PARAS 4 AND 15; REF. SECURITY
REQUIREMENTS/TRAINING: PARAS 1 AND 2.

[PRD] DATABASE RECORD: 522438 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/08/05
INITIAL DATE: 02/19/93
ITEM NUMBER: K34D DATE LAST CHANGED: 05/31/07
SECTION: 5314 TIME LAST CHANGED: 09:11:49

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DODALS ISTRES STSALL ZARAGOZA

ASSOCIATED DOC: 20057S 20070S
TRACKING NO. DB98 KING2001 L114-3 L5527 R109-38
SCRUB06
PRIORITY: MANDATORY
RATIONALE: SECURITY REQUIREMENT FOR RESOURCE PROTECTION.

1. DESCRIPTION: ACCESS - ZARAGOZA

A. COORDINATE ACCESS TO ZARAGOZA AIR BASE FOR ALL NASA TEAM MEMBERS AND RENTAL VEHICLES FOR THE TOTAL LENGTH OF THE MISSION.

B. COORDINATE UNRESTRICTED ACCESS TO THE RAMP AREA, TAXI WAYS, AND RUNWAY 30L. RUNWAY SURFACE ACCESS WILL BE REQUESTED AS REQUIRED.

COORD: KSC/MIKE KUTA/USK-426/321 861-3890

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5314 - SERVICES - SECURITY AND SAFETY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 522438
ITEM NUMBER: K34D

KSC/TOM FRIERS/PH-L/321 861-9348
KSC/ROBERT SCHMIDT/TA-G/321-867-3426
HSFS-0/321-494-5116

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/08/05
RESPONSE TRACKING: Z0509-1 Z5566 Z5708

[PRD] DATABASE RECORD: 524177 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/01/07
INITIAL DATE: 09/08/93
ITEM NUMBER: K35D DATE LAST CHANGED: 05/31/07
SECTION: 5314 TIME LAST CHANGED: 09:34:18

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L KSC/TA-G
TEST CODE: MORON STSALL TAL

ASSOCIATED DOC: 20029S
TRACKING NO. DB98 KING2001 L6002 L6512 L8316
R0702-1 R109-38 R5813 R8310
PRIORITY: MANDATORY
RATIONALE: SECURITY REQUIREMENT FOR RESOURCE PROTECTION.

1. DESCRIPTION: MINIMUM SECURITY REQUIREMENTS AT MORON AIR BASE, SPAIN

1. MANPOWER:

A. A BILINGUAL, FULLY QUALIFIED, SECURITY POLICE NCO TO ACT AS DOD SECURITY REPRESENTATIVE. WITHIN 24 HOURS OF A LANDING, PROVIDE THREE ADDITIONAL BILINGUAL, FULLY QUALIFIED SECURITY POLICE NCO'S TO ENSURE AROUND THE CLOCK PRESENCE OF AT LEAST ONE SUCH INDIVIDUAL. DDMS WILL PROVIDE ASSISTANCE IN INTERPRETING AND TRANSLATING SECURITY INFORMATION ONSITE.

B. SUFFICIENT NUMBERS OF ADEQUATELY TRAINED SECURITY PERSONNEL TO MEET REQUIREMENTS OF PARAGRAPHS 5, 6, & 7. PERSONNEL COULD BE

CONTINUED

[PRD] DATABASE RECORD: 524177
ITEM NUMBER: K35D

REQUIRED TO STAND POST FOR LONG PERIODS OF TIME IN REMOTE AREAS AND UNDER EXIGENT CONDITIONS.

C. ADEQUATE SECURITY PERSONNEL TO SUPPORT VIP VISITS, PRESS INTERFACES AND OTHER PUBLIC AFFAIRS MATTERS AS REQUIRED FOLLOWING A LANDING.

2. TRAINING:

A. SPECIFIC LAUNCH, LANDING AND RECOVERY REQUIREMENTS FOR SECURITY FORCES & RESPONSE TEAM MEMBERS ARE TO BE PROVIDED BY THE NASA GOM, THE CLS SECURITY PROGRAM MANAGER OR HIS DESIGNEE (TA-G). TRAINING WILL CONSIST OF:

(1) SPACE SHUTTLE LANDING & RECOVERY PROCEDURES & ASSOCIATED HAZARDS.

(2) THE MORON DOD SECURITY REPRESENTATIVE SHALL CONDUCT SPACE SHUTTLE PROGRAM (SSP) SECURITY INITIAL AND PERIODIC RECURRENT TRAINING USING MATERIALS & INFORMATION PROVIDED BY NASA & HSFS. RESULTS SHOULD BE DOCUMENTED FOR REVIEW DURING ANNUAL LIAISON VISITS (ALV) BY NASA CLS SECURITY MANAGER & HSFS REPRESENTATIVE.

(3) CLASSROOM INSTRUCTION, PRACTICAL APPLICATIONS, AND SIMULATED LANDING DRILLS.

B. THE NASA CLS SECURITY MANAGER OR HIS DESIGNEE AND THE DOD SECURITY REPRESENTATIVE WILL PROVIDE SAFETY AND SECURITY TRAINING TO QUALIFY SUPPORTING PERSONNEL FOR UNESCORTED ACCESS WITHIN NASA OPERATIONAL AREAS.

C. LOCAL SECURITY FORCES TRAINING AND CAPABILITIES WILL BE REVIEWED BY NASA SECURITY AND HSFS DURING ANNUAL LIAISON VISITS.

D. DOD IS TO PROVIDE NASA TA-G WITH A COPY OF THE DOD SECURITY TRAINING PLAN FOR VALIDATION.

3. EQUIPMENT:

CONTINUED

[PRD] DATABASE RECORD: 524177
ITEM NUMBER: K35D

A. APPROPRIATE RADIO EQUIPMENT TO MAINTAIN A CONSTANT COMMUNICATIONS CAPABILITY BETWEEN THE DOD SECURITY REPRESENTATIVE AND EACH SENTRY AND RESPONSE TEAM.

B. ALL SPANISH SECURITY FORCES SUPPORTING NASA OPERATIONS WILL BE ARMED AND EQUIPPED BY THE KINGDOM OF SPAIN.

C. DOD SECURITY FORCE PERSONNEL WILL BE EQUIPPED IN ACCORDANCE WITH APPLICABLE DOD/USAF REGULATIONS.

D. VEHICLES:

(1) PROVIDE AN ALL TERRAIN VEHICLE FOR USE BY SECURITY MANAGERS (NASA, DOD AND SPANISH AIR FORCE (SAF) SECURITY REPRESENTATIVES) IN SUPPORT OF NASA SSP SECURITY OPERATIONS.

(2) TYPES AND NUMBERS OF ALL TERRAIN VEHICLES ADEQUATE TO SUPPORT MOBILE RESPONSE TEAMS CALLED FOR IN PARAGRAPHS 6 & 7.

E. NASA WILL PROVIDE PROTECTIVE MASKS/EMERGENCY BREATHING EQUIPMENT FOR SECURITY FORCES, IF REQUIRED.

F. GSA APPROVED SECURITY CONTAINERS TO SAFEGUARD CLASSIFIED INFORMATION AND MATERIAL, AS REQUIRED.

G. SECURITY LIGHTING, ROPES, STANCHIONS AND SANDBAGS (TO SECURE STANCHIONS) PER PARAGRAPHS 6 & 7. NASA SECURITY WILL PROVIDE THE ROPES, STANCHIONS AND SANDBAGS NECESSARY TO SET UP THE 60 METER INNER PRIMETER.

4. SECURITY PERIMETERS:

A. ESTABLISH THE FOLLOWING PERIMETERS AROUND THE ORBITER VEHICLE (OV), DEFINED BY ROPE/STANCHION BARRIERS:

OPERATIONAL ENVIRONMENT	PERIMETER RADIUS
(1) INITIAL LANDING/WHEEL STOP	400 M

CONTINUED

[PRD] DATABASE RECORD: 524177
ITEM NUMBER: K35D

(2) ORBITER TOWING	200 M
(3) PARKING/DESERVICE AREA, OUTER PERIMETER	400 M

THE ABOVE INDICATED PERIMETERS/DISTANCES REPRESENT NORMS AND MAY BE ADJUSTED BY THE NASA GOM OR NASA SECURITY REPRESENTATIVE TO ACCOMMODATE UNIQUE TERRAIN FEATURES OR OTHER OPERATIONAL CONSTRAINTS.

B. PROVIDE PROTECTIVE LIGHTING AROUND SECURITY PERIMETERS DURING HOURS OF DARKNESS. DIRECT LIGHTS OUTWARD TO ILLUMINATE POTENTIAL AVENUES OF APPROACH.

C. POST BILINGUAL RESTRICTED/HAZARDOUS AREA SIGNS PROVIDED BY NASA AT 30 METER INTERVALS ON THE PERIMETER DURING RECOVERY/TURNAROUND OPERATIONS.

5. MINIMUM PROTECTION DURING THE ABSENCE OF SHUTTLE SUPPORT TEAM PERSONNEL:

A. PERIODIC ROVING SURVEILLANCE OF ALL SHUTTLE SUPPORT EQUIPMENT AND FACILITIES.

B. PERIODIC CHECKS OF SHUTTLE SUPPORT FACILITIES AT LEAST ONCE EVERY 4 HOURS.

C. REPORT AND DOCUMENT ALL SECURITY VIOLATIONS, AND BREAK-INS OR MISHAPS TO NASA PH-L AND TA-G BY THE MOST EXPEDIENT MEANS. WITHIN 72 HOURS OF NOTIFICATION OF AN INCIDENT, THE ASSIGNED MORON SECURITY REPRESENTATIVE WILL PROVIDE A PRELIMINARY WRITTEN REPORT OF THE INCIDENT FOR HSFS AND NASA REVIEW FOR APPROPRIATE ADJUDICATION.

D. IN THE EVENT OF A BREAK-IN OR DAMAGE TO SHUTTLE SUPPORT EQUIPMENT /FACILITIES, PROTECT EQUIPMENT AND EVIDENCE, AND MAINTAIN PHYSICAL CONTROL.

E. MAINTAIN A 20 METER FIRE, SAFETY PROTECTION AND SECURITY CLEAR ZONE AROUND ALL SHUTTLE SUPPORT EQUIPMENT AND FACILITIES.

CONTINUED

[PRD] DATABASE RECORD: 524177
ITEM NUMBER: K35D

6. MINIMUM PROTECTION REQUIREMENTS FOR PRE-LAUNCH:

A. SAF SECURITY PERSONNEL TO PROVIDE 24 HOUR PROTECTION OF DEPLOYED PAPI LIGHTS. NASA WILL NOT DEPLOY PAPIS BEFORE LAUNCH -72 HOURS UNLESS THERE ARE UNUSUAL CIRCUMSTANCES.

B. ONE HOUR PRIOR TO LAUNCH THE FOLLOWING ZONE SECURITY IS REQUIRED:

(1) SPANISH SPEAKING USAF SECURITY POLICE TO MAINTAIN LIAISON WITH SAF SECURITY PERSONNEL TO ENSURE SECURITY FORCES ARE POSTED, MUSTERED, POTENTIAL LANDING ZONE IS CLEARED OF ALL UNAUTHORIZED PERSONNEL, AND READY TO SUPPORT.

(2) APPROPRIATE NUMBER OF SAF SECURITY PERSONNEL POSTED AT ALL AVENUES OF ENTRY TO THE FLIGHTLINE/TAXIWAY. SAF GUARDS WILL DENY ANYONE NOT IN POSSESSION OF A NASA FLIGHTLINE AUTHORIZATION BADGE ENTRY TO THE FLIGHTLINE.

(3) PROVIDE SAF SECURITY PERSONNEL ON STANDBY, TO BE POSTED AS CORDON SENTRIES FOR THE SHUTTLE IF IT LANDS ON MORON AIR BASE. CORDON SENTRIES WILL BE POSTED BY SAF MANAGEMENT, PER EXISTING DOD, HSFS, AND NASA SSP SECURITY REQUIREMENTS AND PLANS.

(4) PROVIDE SAF SECURITY PERSONNEL TO BE USED AS ARMED ESCORTS FOR VIP/ASTRONAUTS.

(5) PROVIDE APPROPRIATE SAF SECURITY SUPERVISORS.

C. CONDUCT A SWEEP OF THE RUNWAY ENVIRONMENT TO ENSURE THAT THE AREA IS CLEAR OF POSSIBLE INTRUDERS AND UNAUTHORIZED PERSONNEL/ ANIMALS.

7. MINIMUM PROTECTION REQUIREMENTS FROM LANDING UNTIL DEPARTURE OF THE OV/SCA:

A. IMMEDIATELY AFTER OV LANDING AND WHEEL STOP:

(1) ESTABLISH AN INITIAL 400 METER RADIUS SECURITY PERIMETER

CONTINUED

[PRD] DATABASE RECORD: 524177
ITEM NUMBER: K35D

PER PARAGRAPH 4.

(2) ESTABLISH A SINGLE ENTRY CONTROL POINT (ECP) TO CONTROL ACCESS TO THE AREA WITHIN THE PERIMETER.

(3) THE ECP WILL BE MANNED BY A U.S. CITIZEN AND A SPANISH ARMED SENTRY.

(4) PROVIDE SECURITY ESCORT FOR ASTRONAUT TRANSFER TO MEDICAL TREATMENT FACILITIES, AS REQUIRED.

(5) PROVIDE AND/OR COORDINATE VIP (ASTRONAUT) SECURITY SERVICES IF ASTRONAUTS ARE HOSPITALIZED AT A FACILITY OFF BASE.

B. DURING OV TOWING, MAINTAIN A MINIMUM 200 METER RADIUS SECURITY PERIMETER PER PARAGRAPH 4.

C. AT THE PARKING/DESERVICE AREA:

(1) ESTABLISH A 400 METER RADIUS OUTER SECURITY PERIMETER PER PARAGRAPH 4 WITH ONE ECP MANNED BY ONE U.S. CITIZEN AND ONE ARMED SPANISH SENTRY.

(2) RESTRICT ENTRY INTO ESTABLISHED SECURITY AREAS TO INDIVIDUALS APPROVED BY THE NASA GOM OR NASA SECURITY REPRESENTATIVE.

(3) DESIGNATE A DOD AND SPANISH SECURITY SUPERVISOR FOR EACH SHIFT.

D. ESTABLISH SECURITY/RESTRICTED AREAS AROUND THE SHUTTLE CARRIER AIRCRAFT (SCA) AND THE OV PAYLOAD, IF REMOVED.

SECURITY REQUIREMENTS FOR THESE POSTS WILL BE DETERMINED BY THE NASA GOM OR HIS NASA SECURITY REPRESENTATIVE.

8. PUBLISH A SECURITY PLAN FOR MORON AB WHICH SATISFIES NASA PRD REQUIREMENTS AND PROVIDE A COPY TO NASA PH-L AND TA-G.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5314 - SERVICES - SECURITY AND SAFETY

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 524177
ITEM NUMBER: K35D

TECH CONTACT: KSC/ROBERT SCHMIDT/TA-G/321 867-3426
KSC/TIM O'BRIEN/PH-L/321 861-9303
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: NOACK SEE RESPONSE RESPONSE DATE: 02/01/07
RESPONSE:
PARA. 1.1.A HSFS/DOD WILL SUPPORT WITHIN CAPABILITY, BUT CANNOT
ASSURE 24 HR. RESPONSE TIME OR TOTAL OF THREE (3) BILINGUAL NCOs.

RESPONSE TRACKING: Z5903 Z6017 Z6120 Z6572

[PRD] DATABASE RECORD: 588337 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/11/06
INITIAL DATE: 07/11/06
ITEM NUMBER: T36EKXZ DATE LAST CHANGED: 03/22/07
SECTION: 5314 TIME LAST CHANGED: 08:10:33

REQUESTER: JSC
SUBREQUESTER: JSC/DM KSC/SA-G
TEST CODE: LANDNG STSALL

ASSOCIATED DOC: 20026S 20027S 20028S
TRACKING NO. L06-7-1 R0607-1

1. DESCRIPTION: RANGE SAFETY RISK MANAGEMENT PLAN (RSRMP)

KSC, EDWARDS, AND WHITE SANDS, WILL DEVELOP INDEPENDENT RANGE SAFETY RISK MANAGEMENT PLANS (RSRMP'S) DETAILING THEIR LOCAL IMPLEMENTATION OF REQUIREMENTS IN THE SPACE SHUTTLE PROGRAM'S NSTS-60561 "RANGE SAFETY RISK MANAGEMENT PLAN FOR ENTRY OF THE SPACE SHUTTLE ORBITER".

THE RSRMP'S SHALL DETAIL LOCAL PROCESSES TO ESTABLISH AND ENFORCE KEEP-OUT ZONES ALONG THE EXTENDED RUNWAY CENTERLINES FOR THE IMMEDIATE T IME NEAR ORBITER LANDINGS. THE RSRMP'S SHALL DETAIL LOCAL PROCESSES TO INFORM THE ON-SITE PUBLIC, OPERATIONAL PERSONNEL, AND REMAINING WORKFORCE OF THE FACT THAT THERE ARE HAZARDS ASSOCIATED WITH THE ENTRY OF THE ORBITER, AND OF THE ACTIONS TO TAKE IN THE EVENT OF AN EMERGENCY

CONTINUED

[PRD] DATABASE RECORD: 588337
ITEM NUMBER: T36EKXZ

DURING ENTRY OF THE ORBITER.

AT L-30 DAYS, THE LANDING SITES SHALL PROVIDE ON-SITE POPULATION INFORMATION TO THE SPACE SHUTTLE PROGRAM RANGE SAFETY MANAGER, FOR USE IN CALCULATING ESTIMATES OF ON-SITE COLLECTIVE RISKS TO BOTH VISITORS AND THE WORKFORCE AT THE LANDING SITES OUTSIDE OF THE KEEP-OUT ZONES.

COORDINATION: JSC/DM/GREG OLIVER/281 483-1921
KSC/SA-G/ALAN DUMONT/321 867-7697
DFRC/OS/GEORGE GRIMSHAW/661 276-3425
WSTF/RC1/BOB MITCHELL/505 524-5774

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/11/06

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: SA-G

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/20/06

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/11/06

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/11/06

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5315 - SERVICES - COMMUNITY, EDUCATION, AND FOOD SERVICE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 343747 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/02/90
INITIAL DATE: 02/02/90
ITEM NUMBER: T3D DATE LAST CHANGED: 05/31/07
SECTION: 5315 TIME LAST CHANGED: 08:01:04

REQUESTER: JSC
SUBREQUESTER: JSC/CA4
TEST CODE: DODALS DODELS STSALL
TRACKING NO. KING2001 L001-11 L04-10-4 L3625 L507-5
R109-53 SHAW95

1. DESCRIPTION: FOOD SERVICE AT DOD ALS/ELS

PROVIDE FOOD SERVICE FOR CREW AFTER LANDING AND FOOD SERVICE ACCESS FOR MEDICAL OPERATIONS PERSONNEL.

TECH CONTACT: JSC/MIKE CHANDLER/SD24/281-483-2956
(D) HSFS-0/321-494-5116

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/20/90
RESPONSE TRACKING: Z3623

[PRD] DATABASE RECORD: 344068 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K4D DATE LAST CHANGED: 05/31/07
SECTION: 5315 TIME LAST CHANGED: 08:05:42

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DODALS DODELS STSALL
TRACKING NO. DB98 KING2001 R109-53 R2815

1. DESCRIPTION: FOOD SERVICE AT DOD ALS/ELS

PROVIDE FOOD SERVICE FOR PERSONNEL AT WORK AREAS.

TECH CONTACT: DEAN SCHAAF/PH-L/321 861-9311
(D) HSFS-0/321-494-5116

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)

CONTINUED

[PRD] DATABASE RECORD: 344068
ITEM NUMBER: K4D

RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 05/18/89
RESPONSE: DOD WILL SUPPORT TO THE EXTENT POSSIBLE. IF NOT AVAILABLE ON BASE, DOD PERSONNEL WILL ASSIST NASA IN OBTAINING FROM COMMERCIAL SOURCES.

RESPONSE TRACKING: Z2806

[PRD] DATABASE RECORD: 344320 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/16/94
INITIAL DATE: 08/26/88
ITEM NUMBER: KT5X DATE LAST CHANGED: 03/22/07
SECTION: 5315 TIME LAST CHANGED: 08:11:07

REQUESTER: KSC JSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 L2646 R109-53 R2809
R6538 SCRUB06 SHAW94
PRIORITY: REQUIRED
RATIONALE: ALTERNATE FOOD SOURCES AVAILABLE.

1. DESCRIPTION: FOOD SERVICE AT DFRC

PROVIDE FOOD SERVICES ACCESS FOR SHUTTLE OPERATIONS PERSONNEL INCLUDING CREW, MEDICAL, OFFICE AND WORK AREAS. VENDING MACHINES AND OR CAFETERIA ARE ACCEPTABLE.

TECH CONTACT: KSC/DEAN SCHAAF/PH-L/321 861-9311
KSC/MIKE KUTA/USK-426/321-861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: XA1
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/16/94
RESPONSE TRACKING: Z26156 Z6529

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5315 - SERVICES - COMMUNITY, EDUCATION, AND FOOD SERVICE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 344320
ITEM NUMBER: KT5X

[PRD] DATABASE RECORD: 344598 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/25/88
INITIAL DATE: 07/25/88
ITEM NUMBER: KT6D DATE LAST CHANGED: 05/31/07
SECTION: 5315 TIME LAST CHANGED: 08:06:17

REQUESTER: KSC JSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: FERRY S5022.200 STSALL

ASSOCIATED DOC: 25022S 25044S
TRACKING NO. KING2001 L4314 R109-53 R26229

1. DESCRIPTION: FOOD AND LODGING - FERRY SITES

FOR SCA/FERRY FLIGHTS, PROVIDE BILLETING AND MESS FACILITIES FOR APPROX. 30 PERSONS (JSC 13,KSC 17) AT ENROUTE DOD LANDING SITES.

TECH CONTACT: DENNY GAGEN/PH-L/321 861-9301
MIKE KUTA/USK-426/321 861-3890
HSFS-H/281-483-1351

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 07/01/91
RESPONSE:
WILCO WITHIN CAPABILITIES, (WILL ASSIST IN
FINDING OFF-SITE FACILITIES WHEN NECESSARY).

RESPONSE TRACKING: Z26210 Z4340

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5320 - SERVICES - UTILITIES (ELECTRIC, WATER, AND SANITATION)

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 229752 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/23/94
INITIAL DATE: 09/25/89
ITEM NUMBER: K1EX DATE LAST CHANGED: 03/22/07
SECTION: 5320 TIME LAST CHANGED: 08:12:18

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 L3418 R109-24 R2809
R6554 SHAW94
PRIORITY: REQUIRED
RATIONALE: PERSONNEL HEALTH REQUIREMENT.

1. DESCRIPTION: TEMPORARY LATRINES, DRINKING WATER
AND AREA LIGHTING - EAFB

PROVIDE SERVICES TO SUPPORT APPROXIMATELY 70
PERSONNEL AT THE CONVOY PARK SITE.
REQUIRED DURING LANDINGS AND EXERCISES AS SCHEDULED.

TECH CONTACT: DENNY GAGEN/PH-M1/321 861-9301
CASEY WOOD/USK-426/321 861-3920

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/31/94
RESPONSE TRACKING: Z3471 Z6551

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/31/94
RESPONSE TRACKING: Z3471 Z6551

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5320 - SERVICES - UTILITIES (ELECTRIC, WATER, AND SANITATION)

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 361570 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/11/92
INITIAL DATE: 05/18/89
ITEM NUMBER: K6Z DATE LAST CHANGED: 06/06/07
SECTION: 5320 TIME LAST CHANGED: 09:13:26

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 L5406 R109-24 R2832
PRIORITY: REQUIRED
RATIONALE: PERSONNEL HEALTH REQUIRMENT.

1. DESCRIPTION: PORTABLE WATER COOLERS AND WATER - WSSH

1. PROVIDE AND MAINTAIN APPROXIMATELY 25 PORTABLE WATER COOLERS.

2. PROVIDE DRINKING WATER AND REPLENISH AS REQUIRED.

REQUIRED AT WHITE SANDS SPACE HARBOR.

TECH CONTACT: DANA GEIGER/USK-426/321 861-3106
DAN BAKER/PH-M1/321 861-9308

TIMELINE: 72 HOURS AFTER LANDING

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/11/92
RESPONSE TRACKING: Z2825 Z5408

[PRD] DATABASE RECORD: 368372 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/08/91
INITIAL DATE: 05/08/91
ITEM NUMBER: KTZ7E DATE LAST CHANGED: 06/06/07
SECTION: 5320 TIME LAST CHANGED: 09:13:55

REQUESTER: KSC JSC WSTF
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: MSBLS STSALL WSSH

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5320 - SERVICES - UTILITIES (ELECTRIC, WATER, AND SANITATION)

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 368372
ITEM NUMBER: KTZ7E

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 L105-2 L4010 R109-24
R2847
PRIORITY: REQUIRED
RATIONALE: REQUIRED FOR WSSH LANDING SUPPORT.

1. DESCRIPTION: 14 PORTABLE LATRINES AT WSMR

PORTABLE LATRINES SHOULD BE DISTRIBUTED AT WSSH AS FOLLOWS:

REF	QTY	LOCATION	TIMING
T1	2	WOCC	CONTINUOUS.
K2	2	MAINTENANCE TRAILER	1 WEEK PRIOR TO EOM OR 24 HOURS AFTER AOA/CLS LANDING.
K3	2	MAINTENANCE TRAILER	CONTINUOUS.
K4	2	DESERVICE PAD	1 WEEK PRIOR TO EOM OR 24 HOURS AFTER AOA/CLS LANDING.
K5	1	DESERVICE PAD	CONTINUOUS.
T6	1	HELO STANDBY AREA	CONTINUOUS.
T7	1	NORTHEAST FIRETRUCK STANDBY AREA	1 WEEK PRIOR TO LAUNCH.
Z8	1	HARBOR UTILITY BUILDING	CONTINUOUS.
K9	2	CONVOY STANDBY AREA	CONTINUOUS.

CONTINUOUS: THE LATRINES SHOULD REMAIN IN PLACE UNLESS SHUTTLE OPERATIONS ARE SUSPENDED FOR MORE THAN 4 MONTHS.

ALL OTHERS ASSUME THE LATRINES WILL REMAIN UNTIL 1 WEEK AFTER THE ORBITER DEPARTS WSSH.

ALL LATRINES SHOULD BE SERVICED BY THE SUPPLIER.

THIS REQUIREMENT IS FOR DIRECT SUPPORT OF SHUTTLE OPERATIONS ONLY.

CONTINUED

[PRD] DATABASE RECORD: 368372
ITEM NUMBER: KTZ7E

LATRINES FOR INVITED GUESTS, PUBLIC NEWS MEDIA ETC. ARE THE SUBJECT OF SEPERATE REQUIREMENTS BY OTHER CENTERS.

TECH CONTACT: DANA GEIGER/USK-426/321 861-3106
DAN BAKER/PH-M1/321 861-9308

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: WSMR
RESPONDER: BART KLEINFELDT/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/15/91
RESPONSE TRACKING: Z2720 Z28113 Z4014

[PRD] DATABASE RECORD: 515166 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/10/91
INITIAL DATE: 06/10/91
ITEM NUMBER: K7.1X DATE LAST CHANGED: 06/04/07
SECTION: 5320 TIME LAST CHANGED: 10:49:44

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB S5022.100 S5022.200 STSALL

ASSOCIATED DOC: 25022S
TRACKING NO. DB98 KING2001 L4314 R109-24
PRIORITY: REQUIRED
RATIONALE: SAFETY - REQUIRED FOR DFRC POST LANDING SUPPORT.

1. DESCRIPTION: FLOODLIGHTS, EXPLOSION PROOF - DFRC

PROVIDE 4 BANKS (2- PER POD) PORTABLE EXPLOSION PROOF FLOODLIGHTS FOR BALL VALVE CAVITY DRAIN.

TECH CONTACT: CASEY WOOD/USK-426/321 861-3920
DENNY GAGEN/PH-M1/321 861-9301

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5320 - SERVICES - UTILITIES (ELECTRIC, WATER, AND SANITATION)

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 515166
ITEM NUMBER: K7.1X

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/08/91
RESPONSE TRACKING: Z4340

[PRD] DATABASE RECORD: 361973 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K8X DATE LAST CHANGED: 03/22/07
SECTION: 5320 TIME LAST CHANGED: 08:14:02

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 R109-24 R2809 R2826
PRIORITY: REQUIRED
RATIONALE: BACKUP CAPABILITY AVAILABLE.

1. DESCRIPTION: JANITORIAL SERVICES - DFRC/EAFB

PROVIDE JANITORIAL SERVICE AND REFUSE COLLECTION AND
DISPOSAL AT NASA FACILITIES.

TECH CONTACT: CASEY WOOD/USK-426/321 861-3920
DENNY GAGEN/PH-M1/321 861-9301

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/30/89
RESPONSE TRACKING: Z2814

[PRD] DATABASE RECORD: 362441 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/21/91
INITIAL DATE: 02/20/90
ITEM NUMBER: K10E DATE LAST CHANGED: 06/04/07
SECTION: 5320 TIME LAST CHANGED: 10:08:15

REQUESTER: KSC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5320 - SERVICES - UTILITIES (ELECTRIC, WATER, AND SANITATION)

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 362441
ITEM NUMBER: K10E

SUBREQUESTER: KSC/PH-L VAL92003 VALE
TEST CODE: KSC S0007.100 STSALL

ASSOCIATED DOC: 20007S 20014S 20017S 20037S
TRACKING NO. KING2001 L3636 L3908 MK98 R109-24
R2829
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR TANKING AND LONG RANGE TRACKING CANNOT LAUNCH AT NIGHT WITHOUT THIS REQUIREMENT.

1. DESCRIPTION: XENON LIGHTS AND GENERATORS - KSC PAD A OR B (L-9 HOURS)

1. PROVIDE AND OPERATE AN/TV S-3 20 KW SEARCHLIGHTS AS FOLLOWS:

NIGHT LAUNCH - FORTY XENON SEARCHLIGHTS (THIRTY FIVE OPERATIONAL PLUS 5 SPARES).

NIGHT EXTERNAL TANK LOAD AND DAYLIGHT LAUNCH - THIRTY FIVE XENON SEARCHLIGHTS (THIRTY OPERATIONAL PLUS 5 SPARES).

2. PROVIDE A SUFFICIENT QUANTITY OF 60KW-400HZ DIESEL GENERATORS TO SUPPLY POWER FOR SEARCHLIGHTS WITH A FUEL CAPACITY FOR 18 HOUR CONTINUOUS OPERATIONS.

REQUIRED FOR PRELAUNCH/LAUNCH ACTIVITIES AND ALSO FOR TV AND PHOTO COVERAGE AT PAD A OR B.

TECH CONTACT: TED MOSTELLER/PH-L/321 861-9307
KEN CHAMBERLAND/SGS-5022/321 853-7078

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: BART KLEINFELDT/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/05/91
RESPONSE TRACKING: Z2720 Z2822 Z3113 Z3707

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5320 - SERVICES - UTILITIES (ELECTRIC, WATER, AND SANITATION)

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 362645 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/19/91
INITIAL DATE: 03/19/91
ITEM NUMBER: K11E DATE LAST CHANGED: 06/04/07
SECTION: 5320 TIME LAST CHANGED: 10:09:53

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426 VAL92003 VALE
TEST CODE: KSC SLF STSALL

ASSOCIATED DOC: 20028S
TRACKING NO. KING2001 L3717 MK98 R109-24 R2809
R2829
PRIORITY: MANDATORY
RATIONALE: MANDATORY FOR NIGHT LANDING.

1. DESCRIPTION: XENON LIGHTS LANDING AIDS AT KSC SLF (LANDING-3 HOURS)

PROVIDE & OPERATE 16 XENON LIGHTS (8 AT EACH END OF RUNWAY) AT KSC SLF, ALSO, PROVIDE AND OPERATE 9 GENERATORS AT 60 KVA (4 AT EACH END OF RUN-WAY + ONE SPARE) AT KSC SLF FOR POWER TO XENONS. AN ADDITIONAL SPARE GENERATOR IS REQUIRED TO SUPPORT RTLS AND EOM LANDINGS WHEN SCHEDULED DURING NIGHT TIME. LIGHTS AND GENERATORS ARE ALSO REQUIRED TO SUPPORT SHUTTLE TRAINING ACTIVITIES AS SCHEDULED. LIGHTS AND GENERATORS ARE REQUIRED TO RAMAIN AT SLF DURING MISSION TO SUPPORT CONTINGENCY LANDINGS

NO OPERATIONAL MANNING IS REQUIRED EXCEPT AS SCHEDULED.

TECH CONTACT: LRD/PH-L/321 861-9300
KEVIN OTOOLE/USK-426/321 861-3112
KEN CHAMBERLAND/SGS-5022/321 853-7078

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER LBS
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/20/91
RESPONSE TRACKING: Z2822 Z3718 Z7312

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5320 - SERVICES - UTILITIES (ELECTRIC, WATER, AND SANITATION)

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 363129 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/07/94
INITIAL DATE: 05/18/89
ITEM NUMBER: K13D DATE LAST CHANGED: 05/31/07
SECTION: 5320 TIME LAST CHANGED: 08:15:56

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: S0027.001 STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 R109-24 R2848 R6307
PRIORITY: REQUIRED
RATIONALE: TERTIARY LANDING SITE BECOMES MANDATORY FOR NIGHT LANDING AT WSSH.

1. DESCRIPTION: PORTABLE LIGHTING - WSSH

PROVIDE FOUR PORTABLE LIGHTING UNITS WITH GENERATORS (LITE-ALL OR EQUIVALENT) AT WSSH FOR USE IN THE EOM CONVOY STANDBY SITE AND AFTER ANY LANDING TO ILLUMINATE THE ORBITER AND WORK AREAS.

TECH CONTACT: MIKE KUTA/USK-426/321 861-3890
LOU GARCIA/PH-M1/321 867-6196
HSFS-O/321-494-5116

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/07/94
RESPONSE TRACKING: Z2840 Z6309

[PRD] DATABASE RECORD: 363334 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K14X DATE LAST CHANGED: 03/22/07
SECTION: 5320 TIME LAST CHANGED: 08:15:02

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DFRC EAFB S0026.100 S0026.200
S0026.300 S0026.500 STSALL

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5320 - SERVICES - UTILITIES (ELECTRIC, WATER, AND SANITATION)

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 363334
ITEM NUMBER: K14X

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 R109-24 R2809 R2823
PRIORITY: REQUIRED
RATIONALE: REQUIRED FOR DFRC LANDING SUPPORT.

1. DESCRIPTION: PORTABLE LIGHTS - DFRC

PROVIDE PORTABLE LIGHTS WITH POWER SOURCES AT REMOTE
WORK AREAS OF OPERATIONS CONDUCTED AT DFRC HOW MUCH
AND WHERE WILL BE PROVIDED ON DFRC SUPPORT SCHEDULE.

TECH CONTACT: CASEY WOOD/USK-426/321 861-3920
DENNY GAGEN/PH-L/321 861-9301

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 07/30/96
RESPONSE:
PORTABLE LIGHTS WILL BE PROVIDED BASED ON AVAILABILITY.

RESPONSE TRACKING: Z2811 Z7912

[PRD] DATABASE RECORD: 363558 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/02/90
INITIAL DATE: 02/02/90
ITEM NUMBER: T15X DATE LAST CHANGED: 03/22/07
SECTION: 5320 TIME LAST CHANGED: 08:16:05

REQUESTER: JSC
SUBREQUESTER: JSC/MG
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. KING2001 L001-11 L3625 R109-24 R2809
R508-4 SHAW95

1. DESCRIPTION: XENON LIGHTS/LANDING AIDS-EAFB

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5320 - SERVICES - UTILITIES (ELECTRIC, WATER, AND SANITATION)

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 363558
ITEM NUMBER: T15X

PROVIDE XENON LIGHTS AND GENERATOR SUPPORT TO BE USED DURING THE MISSION. LOCATIONS ARE SPECIFIED IN THE 07700 VOLUME X, BOOK III. LIGHTS WILL BE FOR USE AT NIGHT BY STA AIRCRAFT DURING PRE-LANDING WEATHER RECONNAISSANCE FLIGHTS AND OTHER ACTIVITY.

TECH CONTACT: DENNY GAGEN/PH-M1/321 861-9301
CASEY WOOD/USK-426/321 861-3920

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/10/96
RESPONSE TRACKING: Z3140 Z7503

[PRD] DATABASE RECORD: 363921 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K17X DATE LAST CHANGED: 03/22/07
SECTION: 5320 TIME LAST CHANGED: 08:16:59

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DFRC EAFB S0026.100 S0026.200
S0026.300 STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 R109-24 R2809 R2823
PRIORITY: REQUIRED
RATIONALE: REQUIRED FOR DFRC LANDING SUPPORT.

1. DESCRIPTION: S70-1218-19 DIESEL GENERATORS (4 OR 5) AT EAFB

TECH CONTACT: DENNY GAGEN/PH-L/321 861-9301
CASEY WOOD/USK-426/321 861-3920

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5320 - SERVICES - UTILITIES (ELECTRIC, WATER, AND SANITATION)

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 363921
ITEM NUMBER: K17X

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/30/89
RESPONSE TRACKING: Z2811

[PRD] DATABASE RECORD: 364408 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/21/88
INITIAL DATE: 11/21/88
ITEM NUMBER: K19D DATE LAST CHANGED: 06/06/07
SECTION: 5320 TIME LAST CHANGED: 09:14:29

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DODALS DODELS STSALL
TRACKING NO. DB98 KING2001 L2741 R109-24
PRIORITY: REQUIRED
RATIONALE: REQUIRED FOR NIGHT LANDING OPERATIONS, IF AVAILABLE.

1. DESCRIPTION: PORTABLE LIGHTS - DOD ALS/ELS

PROVIDE PORTABLE LIGHTS (20KW) WITH POWER SOURCES
FROM EXISTING RESOURCES, IF AVAILABLE TO ILLUMINATE
WORK AREAS AT DOD ALS/ELS.

TECH CONTACT: DEAN SCHAAF/PH-M1/321 861-9311
KEVIN OTOOLE/USK-426/321 861-3112
HSFS-O/321-494-5116

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/21/88
RESPONSE TRACKING: Z2756

[PRD] DATABASE RECORD: 364777 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/13/89
INITIAL DATE: 06/13/89
ITEM NUMBER: Z20E DATE LAST CHANGED: 06/06/07
SECTION: 5320 TIME LAST CHANGED: 09:14:46

REQUESTER: WSTF
TEST CODE: MSBLS STSALL WSSH

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5320 - SERVICES - UTILITIES (ELECTRIC, WATER, AND SANITATION)

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 364777
ITEM NUMBER: Z20E

ASSOCIATED DOC: 20027S
TRACKING NO. KING2001 R109-24 R2847

1. DESCRIPTION: GENERATOR SUPPORT - WSSH

PROVIDE FOUR 15 KVA GENERATORS AND THREE 30 KVA GENERATORS AT WSSH TO SUPPORT CONTINUOUS OPERATIONS. TWO ADDITIONAL 15 KVA GENERATORS ARE REQUIRED TO SUPPORT A LANDING.

TECH CONTACT: DANA GEIGER/USK-426/321 861-3106
DAN BAKER/PH-M1/321-861-9308

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: WSMR
RESPONDER: BART KLEINFELDT/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/19/89
RESPONSE TRACKING: Z2720 Z28113

[PRD] DATABASE RECORD: 18236 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/12/94
INITIAL DATE: 03/31/89
ITEM NUMBER: K23.1D DATE LAST CHANGED: 06/06/07
SECTION: 5320 TIME LAST CHANGED: 09:15:06

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: MORON STSALL TAL ZARAGOZA

ASSOCIATED DOC: 20029S 20057S
TRACKING NO. DB98 KING2001 L3007 L3748 R109-24
R6503 R6508 R6534
PRIORITY: REQUIRED
RATIONALE: ALTERNATE POWER SOURCES AVAILABLE.

1. DESCRIPTION: BACK-UP ELECTRICAL POWER FOR MORON AND ZARAGOZA

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5320 - SERVICES - UTILITIES (ELECTRIC, WATER, AND SANITATION)

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 18236
ITEM NUMBER: K23.1D

PROVIDE 220/110 VOLT 60 HZ BACK-UP ELECTRICAL POWER FOR NASA OPERATIONS BUILDING AND COMM/OPS/WX EQUIPMENT. BUILDING 1411 AT MORON, AB AND BUILDING 686 AT ZARAGOZA, AB.

BACKUP POWER MUST BE CAPABLE OF ACCEPTING LOADS (ONLINE) WITHIN 8 MINUTES OF A PRIMARY POWER SOURCE FAILURE.

NOTE: CAPABILITY NORMALLY EXISTS BEGINNING 2 HOURS PRIOR TO OPENING OF LAUNCH WINDOW AT MORON, AB. SYSTEM FUNCTIONS AUTOMATICALLY AT ZARAGOZA, AB.

TECHNICAL CONTACTS: DEAN SCHAAF/PH-M1/321 861-9311
JIM DEVAULT/TA-B2/321 867-3521
DDMS-O/321-494-5116
KEVIN OTOOLE/USK-426/321 861-3112 (MORON)
JIM MOOS/USK-426/321 861-3706 (ZARAGOZA)

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/12/94
RESPONSE TRACKING: Z3029 Z6518 Z6526

[PRD] DATABASE RECORD: 366579 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/11/92
INITIAL DATE: 05/18/89
ITEM NUMBER: K24Z DATE LAST CHANGED: 06/06/07
SECTION: 5320 TIME LAST CHANGED: 09:15:27

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 L5406 R109-24 R2832
PRIORITY: REQUIRED
RATIONALE: TERTIARY LANDING SITE BECOMES MANDATORY FOR LANDING AT WSSH.

CONTINUED

[PRD] DATABASE RECORD: 366579
ITEM NUMBER: K24Z

1. DESCRIPTION: JANITORIAL SUPPORT AND REFUSE COLLECTION - WSSH

PROVIDE JANITORIAL SUPPORT AND REFUSE COLLECTION AT THE WHITE SANDS SPACE HARBOR OPERATIONS CONTROL CENTER AND FOR TEMPORARY SHELTERS AFTER THEY ARE ERECTED AT WSSH.

TECH CONTACT: DANA GEIGER/USK-426/321 861-3106
DAN BAKER/PH-M1/321 861-9308

TIMELINE: 72 HOURS AFTER LANDING.

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/11/92
RESPONSE TRACKING: Z2825 Z5408

[PRD] DATABASE RECORD: 366368 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K25D DATE LAST CHANGED: 05/31/07
SECTION: 5320 TIME LAST CHANGED: 08:18:25

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DODALS DODELS STSALL
TRACKING NO. DB98 KING2001 R109-24 R2848
PRIORITY: REQUIRED
RATIONALE: ALTERNATE SOURCES AVAILABLE.

1. DESCRIPTION: JANITORIAL SERVICE, REFUSE COLLECTION AND DISPOSAL - DOD ALS/ELS.

PROVIDE JANITORIAL SERVICE, REFUSE COLLECTION AND DISPOSAL AT FACILITIES PROVIDED TO NASA AT A DOD ALS/ELS.

TECH CONTACT: DEAN SCHAAF/PH-L/321 861-9311
HSFS-O/321-494-5116

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5320 - SERVICES - UTILITIES (ELECTRIC, WATER, AND SANITATION)

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 366368
ITEM NUMBER: K25D

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 05/10/94
RESPONSE:
WILCO, AS PROVIDED FOR UNDER EXISTING BASE SERVICE SUPPORT CONTRACTS.

RESPONSE TRACKING: Z2840 Z6522

[PRD] DATABASE RECORD: 3329 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 07/29/85
ITEM NUMBER: K27D DATE LAST CHANGED: 06/04/07
SECTION: 5320 TIME LAST CHANGED: 10:10:47

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: S51F11 STSALL TAL ZARAGOZA

ASSOCIATED DOC: 20057S
TRACKING NO. DB98 KING2001 L3849 R109-24 R2848

1. DESCRIPTION: GENERATORS FOR XENON LIGHTS - ZARAGOZA

PROVIDE 4 EA 208V, 400HZ, 72KW GENERATORS TO PROVIDE POWER FOR
XENON LIGHTS AT ZARAGOZA AB SPAIN.

TECH CONTACT: DEAN SCHAAF/PH-M1/321 861-9311
KEN CHAMBERLAND/SGS-5022/321 853-7078

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/12/89
RESPONSE TRACKING: Z2840

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5320 - SERVICES - UTILITIES (ELECTRIC, WATER, AND SANITATION)

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 19427 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/19/89
INITIAL DATE: 09/19/89
ITEM NUMBER: K27.1X DATE LAST CHANGED: 03/22/07
SECTION: 5320 TIME LAST CHANGED: 08:18:04

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DFRC EAFB S0026.100 S0026.200
S0026.300 STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 L3412 R109-24
PRIORITY: REQUIRED
RATIONALE: REQUIRED FOR NIGHT LANDING OPERATIONS AT DFRC.

1. DESCRIPTION: GENERATORS AT DFRC

PROVIDE 3 EA. 2 KW MOBILE GENERATORS REQUIRED TO PROVIDE
ELECTRICAL POWER FOR PORTABLE LIGHT BANKS.

TECH CONTACT: CASEY WOOD/USK-426/321 861-3920
DENNY GAGEN/PH-M1/321 861-9301

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/25/89
RESPONSE TRACKING: Z3454

[PRD] DATABASE RECORD: 20849 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/17/91
INITIAL DATE: 01/17/91
ITEM NUMBER: K33D DATE LAST CHANGED: 06/04/07
SECTION: 5320 TIME LAST CHANGED: 10:14:33

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DODALS STSALL
TRACKING NO. DB98 KING2001 L3633 R109-24 R3923
PRIORITY: MANDATORY

CONTINUED

[PRD] DATABASE RECORD: 20849
ITEM NUMBER: K33D

RATIONALE: REQUIRED FOR NIGHT LANDING SUPPORT AT DoD ALS.

1. DESCRIPTION: XENON GENERATOR SUPPORT AT DOD ALS

AT ALL AUGUMENTED DOD LANDING SITES THE 72 KW GENERATORS REQUIRED TO SUPPORT THE XENON LIGHTS SHOULD BE LOAD BANKED TO 100% PRIOR TO THE ARRIVAL OF THE NASA MISSION SUPPORT TEAM. ADDITIONALLY, IF AIRCRAFT GROUND EQUIPMENT (AGE) PERSONNEL ARE REQUESTED TO SWAP OUT A DEFECTIVE GENERATOR AND THE NASA CONTRACTORS ARE PRESENT, THE AGE PERSONNEL ARE REQUESTED TO REMAIN ON SITE (APPROXIMATELY 30 MINUTES) UNTIL THE CONTRACTORS HAVE CONFIRMED THE NEW GENERATOR IS OPERATIONAL.

TECH CONTACT: DEAN SCHAAF/PH-L/321 861-9311
KEN CHAMBERLAND/SGS-5022/321 853-7078
HSFS-O/321-494-5116

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/17/91
RESPONSE TRACKING: Z3544 Z3928

[PRD] DATABASE RECORD: 20866 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/08/05
INITIAL DATE: 02/20/90
ITEM NUMBER: K34E DATE LAST CHANGED: 06/04/07
SECTION: 5320 TIME LAST CHANGED: 10:16:32

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: BENGUE ISTRES MORON STSALL
TAL ZARAGOZA

ASSOCIATED DOC: 20029S 20057S 20070S
TRACKING NO. DB98 KING2001 L114-3 L3636 L3849
R109-24 R6540 R7002 SHAW94
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR NIGHT LANDING SUPPORT.

1. DESCRIPTION: XENON LIGHT OPERATION AND MAINTENANCE (O&M)

CONTINUED

[PRD] DATABASE RECORD: 20866
ITEM NUMBER: K34E

AND DEPOT LEVEL MAINTENANCE

PROVIDE O&M LOGISTICS AND DEPOT LEVEL SUPPORT FOR EXISTING XENON LIGHTS AT OFF-SITE SHUTTLE LOCATIONS. THE LIGHTS ARE USED FOR LANDING SUPPORT. SPECIFIC MISSION SUPPORT AND SITE LOCATIONS WILL BE AS SCHEDULED. THIS SUPPORT INCLUDES PROVIDING SPARE PARTS TO OFF-SITE LOCATIONS AND LOCAL CCAFS/KSC AREAS AND REPAIRING AS REQUIRED TO MAINTAIN AN OPERATIONAL XENON LIGHT SYSTEM.

NOTE: SUPPORT REQUIRED ONLY FOR NIGHT (DARK) LANDING OPPORTUNITIES.
KSC DOES NOT REQUIRE "E" TO PROVIDE O&M AT DFRC AND WSSH.

TECH CONTACT: GLEN LOCKWOOD/PH-L/321 861-9310
KEN CHAMBERLAND/SGS-5022/321 853-7078

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER LBS
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/08/05
RESPONSE TRACKING: Z3113 Z6584 Z7312

[PRD] DATABASE RECORD: 530649 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/12/97
INITIAL DATE: 07/28/95
ITEM NUMBER: K37D DATE LAST CHANGED: 06/06/07
SECTION: 5320 TIME LAST CHANGED: 09:15:52

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L NE-E USK-426
TEST CODE: MORON STSALL

ASSOCIATED DOC: 20007S 20029S
TRACKING NO. DB98 KING2001 L6904 L8308 R109-24
PRIORITY: REQUIRED
RATIONALE: BACKUP POWER ONLY.

1. DESCRIPTION: MSBLS BACKUP POWER - MORON

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5320 - SERVICES - UTILITIES (ELECTRIC, WATER, AND SANITATION)

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 530649
ITEM NUMBER: K37D

PROVIDE THREE 30KW GENERATORS FOR MSBLS BACKUP POWER. ONE GENERATOR WILL SERVE AS A SPARE. GENERATORS SHOULD BE AVAILABLE FOR PICK UP WHEN KSC TEAM ARRIVES ON SITE.

PROVIDE FUEL FOR GENERATORS AND GENERATOR MAINTENANCE.

TECH CONTACTS: DEAN SCHAAF/PH-M1/321 861-9311
KEVIN OTOOLE/USK-426/321 861-3112
JOHN KIRIAZES/PH-F1/321 861-3700

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 04/18/97
RESPONSE:
GENERATORS ARE CURRENTLY AVAILABLE FROM MORON AB RESOURCES AND WILL BE PROVIDED AS LONG AS THEY REMAIN AVAILABLE.

RESPONSE TRACKING: Z6931 Z8401

[PRD] DATABASE RECORD: 530966 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/24/96
INITIAL DATE: 05/09/96
ITEM NUMBER: K38D DATE LAST CHANGED: 06/06/07
SECTION: 5320 TIME LAST CHANGED: 09:16:10

REQUESTER: KSC
TEST CODE: STSALL ZARAGOZA

ASSOCIATED DOC: 20057S
TRACKING NO. DB98 KING2001 L7705 R109-24
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR NIGHT LANDING OPERATIONS AT ZARAGOZA.

1. DESCRIPTION: LIGHT CARTS- ZARAGOZA

PROVIDE THREE LIGHT CARTS TO SUPPORT KSC TEAM OPERATIONS AT ZARAGOZA AB, SPAIN.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5320 - SERVICES - UTILITIES (ELECTRIC, WATER, AND SANITATION)

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 530966
ITEM NUMBER: K38D

TECHNICAL CONTACTS: DEAN SCHAAF/KSC/PH-M1/321 861-9311
JIM MOOS/KSC/USK-426/321 861-3706

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/24/96
RESPONSE TRACKING: Z7803

[PRD] DATABASE RECORD: 580759 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/09/05
INITIAL DATE: 03/09/05
ITEM NUMBER: KT39EG DATE LAST CHANGED: 01/16/07
SECTION: 5320 TIME LAST CHANGED: 10:41:36

REQUESTER: KSC JSC
TEST CODE: LAUNCH PREFLT STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. L06-11-1 R0504-7

1. DESCRIPTION: ET TV POWER REQUIREMENTS JDMTA

JDMTA WILL PROVIDE 208 THREE PHASE/60 AMP SERVICE TO THE PORTABLE EARTH STATION VANS THAT WILL BE LOCATED AT THEIR LOCATION.

POC: JSC/MS2/CHRISTINE BOYKIN/281 483-1251
JSC/M03-USA/RAY BANKS/281 483-8233

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 06/14/05
RESPONSE: THE NASA PORTABLE ESTA MUST ARRIVE AT JDMTA AT OR BEFORE 0800 L ON L-1 TO CHECK OUT INTERCONNECTIONS BETWEEN THE PORTABLE EQUIPMENT AND RESOLVE ANY UNFORESEEN ISSUES AND LESSEN ANY

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5320 - SERVICES - UTILITIES (ELECTRIC, WATER, AND SANITATION)

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 580759
ITEM NUMBER: KT39EG

POTENTIAL INTERFERENCE WITH ER INSTRUMENTATION SETUP REQUIREMENTS
AT JDMTA. THE ER SITE PERSONNEL RETAIN THE AUTHORITY TO DIRECT
THE ESTA TO STOP RADIATING IF AT ANY TIME DURING THE MISSION THE
ESTA INTERFERES WITH ER RANGE SAFETY RADAR TRACKING, TELEMETRY
RECEPTION, OR COMMAND DESTRUCT SYSTEMS.

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/09/05

[PRD] DATABASE RECORD: 580758 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/09/05
INITIAL DATE: 03/09/05
ITEM NUMBER: KT40G DATE LAST CHANGED: 11/16/06
SECTION: 5320 TIME LAST CHANGED: 07:13:28

REQUESTER: KSC JSC
TEST CODE: LAUNCH PREFLT STSALL TVPLAN

ASSOCIATED DOC: 20007S
TRACKING NO. L06-11-1 R0504-7

1. DESCRIPTION: ET TV POWER REQUIREMENTS WALLOPS

WALLOPS WILL PROVIDE 208 THREE PHASE/100 AMP SERVICE TO
THE PORTABLE EARTH STATION VANS THAT WILL BE LOCATED
AT THEIR LOCATION.

POC: JSC/MS2/CHRISTINE BOYKIN/281 483-1251
JSC/M03-USA/RAY BANKS/281 483-8233

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/09/05

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5320 - SERVICES - UTILITIES (ELECTRIC, WATER, AND SANITATION)

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD:	583657	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	LLS	APPROVAL DATE:	05/18/06
		INITIAL DATE:	05/18/06
ITEM NUMBER:	K41EK	DATE LAST CHANGED:	08/10/06
SECTION:	5320	TIME LAST CHANGED:	08:44:48

REQUESTER: KSC
SUBREQUESTER: KT-C
TEST CODE: HURICON J6-490 STSALL WX

TRACKING NO. R0606-1

1. DESCRIPTION: BACK-UP POWER SUPPORT FOR WEATHER TOWER 313'S ASSOCIATED EQUIPMENT ROOM (J6-490)

PROVIDE AN ON-SITE DATA LOGGER AND ENOUGH BACK-UP POWER TO THE LOGGER AND TOWER EQUIPMENT TO CONTINUOUSLY COLLECT WIND DIRECTION AND WIND SPEED DATA FROM BOTH SIDES OF THE TOWER AT ALL LEVELS FOR AT LEAST 96 HOURS DURING HURRICANE CONDITIONS. PROVIDE BACKUP POWER TO DATA ACQUISITION SYSTEM AND RELATED NETWORK EQUIPMENT FOR THE SAME PERIOD. PROVIDE BACK-UP POWER TO AIR CONDITIONER/FANS (TO MANAGE EQUIPMENT HEAT LOAD AND HUMIDITY, 96 HRS). PROVIDE PROPER INTERFACES REQUIRED BETWEEN INSTRUMENTATION, ELECTRICAL, UNINTERRUPTED POWER SUPPLY (UPS), AND POWER GENERATOR.

TEMPERATURE AND RELATIVE HUMIDITY DATA ARE DESIRED BUT NOT REQUIRED. IF TEMPERATURE AND RELATIVE HUMIDITY ARE PROVIDED, IT IS REQUIRED THAT NORMALLY ASPIRATED SENSORS BE ASPIRATED.

THE ABOVE EQUIPMENT INCLUDING THE DATA ACQUISITION SYSTEM NEEDS TO BE ON A UNINTERRUPTIBLE POWER SUPPLY (UPS) WITH TRANSIENT PROTECTION SYSTEM.

GENERATOR NEEDS TO BE ON AN AUTO SWITCHOVER. GENERATORS NEEDS TO BE MAINTAINED IN WORKING ORDER. GENERATOR NEEDS TO BE FUELED TO CAPACITY AND TESTED AT HURRCON III CONDITION. UPS BATTERIES NEED TO BE MAINTAINED/MONITORED.

GENERATOR NEEDS TO BE SECURED TO STRUCTURE OR CONCRETE SLAB OR ANCHORS TO BE ABLE TO WITHSTAND HURRICANE WINDS OF UP TO 155 MPH.

USER NEED DATE: AUGUST 15, 2006 (DESIRED)
POINT OF CONTACT: JENNIFER WARD/KT-C/321 867-0824

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5320 - SERVICES - UTILITIES (ELECTRIC, WATER, AND SANITATION)

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 583657
ITEM NUMBER: K41EK

FRANK MERCERET/KT-C/321 867-0818

TECH CONTACT: HAROLD HERRING/CSR4500/321 853-8211
DONNIE HUGHES/JBOSC/321 476-4088

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: CSR4500
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: INWORK SEE RESPONSE RESPONSE DATE: 07/14/06
RESPONSE: VENDOR (SUTRON) IS ATTEMPTING TO DETERMINE IF
EXISTING DATALOGGERS CAN BE PROGRAMMED TO PERFORM THIS
FUNCTION OR IF NEW SYSTEMS ARE REQUIRED.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: SGS-034 SGS-347

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/18/06
RESPONSE: FUNDING SOURCE: AF JON 52INST00

[PRD] DATABASE RECORD: 591159 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/23/07
INITIAL DATE: 03/23/07
ITEM NUMBER: K42Z DATE LAST CHANGED: 04/02/07
SECTION: 5320 TIME LAST CHANGED: 08:58:39

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L
TEST CODE:

ASSOCIATED DOC: 20027S
TRACKING NO. R0703-5 R0704-1

1. DESCRIPTION: WSSH - GENERATORS

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5320 - SERVICES - UTILITIES (ELECTRIC, WATER, AND SANITATION)

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 591159
ITEM NUMBER: K42Z

PROVIDE (2) 650 KW GENERATORS AND (1) 125 KW GENERATOR AT THE WSSH TURNAROUND PAD FUELED AND PREPARED FOR SUPPORT OF ORBITER TURNAROUND OPERATIONS. ALSO PROVIDE MANPOWER TO KEEP THE GENERATORS RUNNING CONTINUOUSLY IF NECESSARY. THIS CAPABILITY SHOULD BE READY TO SUPPORT 24 HOURS PRIOR TO A LANDING AT WSSH IF THE MOBILE POWER UNIT AND THE MINI PORTABLE PURGE UNIT HAVE BEEN SHIPPED FROM KSC TO WSSH.

TECH CONTACT: WSTF/ROBERT MITCHELL/505 524-5774
KSC/LOU GARCIA/321 867-6196

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/26/07

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5321 - SERVICES - HANDLING, STORAGE, AND DISPOSAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 248954 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/02/89
INITIAL DATE: 06/02/89
ITEM NUMBER: K1E DATE LAST CHANGED: 01/25/07
SECTION: 5321 TIME LAST CHANGED: 08:59:11

REQUESTER: KSC
SUBREQUESTER: KSC/NE-M7
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 MK98 R109-57 R2830 SCRUB06
PRIORITY: MANDATORY
RATIONALE: SAFETY ISSUE

1. DESCRIPTION: EOD TEAM -KSC (L-1 HOUR)

PROVIDE EXPLOSIVE ORDNANCE DISPOSAL (EOD) TEAM (REQUIRED FOR IMPACT CONVOY) FOR SHUTTLE LAUNCHES.

TECH CONTACT: KSC/NE-M7/STEVE TOWNSEND/321 861-3584

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/05/89
RESPONSE TRACKING: Z2823

[PRD] DATABASE RECORD: 320692 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/13/90
INITIAL DATE: 07/13/90
ITEM NUMBER: K2E DATE LAST CHANGED: 01/25/07
SECTION: 5321 TIME LAST CHANGED: 08:59:53

REQUESTER: KSC
SUBREQUESTER: KSC/NE-M7
TEST CODE: CCAFS STSALL

ASSOCIATED DOC: 25407B
TRACKING NO. DB98 KING2001 L3826 R109-57 R2830 SCRUB06
PRIORITY: MANDATORY

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5321 - SERVICES - HANDLING, STORAGE, AND DISPOSAL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 320692
ITEM NUMBER: K2E

RATIONALE: REQUIRED AT HANGER AT FOR ORDNANCE DISCONNECT AND REMOVAL FROM SRB'S.

1. TYPE/ITEM
   SERVICE: EXPLOSIVE ORDNANCE DISPOSAL (EOD) AS REQUIRED - CCAFS
2. RA OR SA:
3. DATES, AMTS.
   OR CHECK FOR
   REQ'D ITEM/
   SERVICE:
4. PURPOSE/REMARKS/
   SPEC. INSTRUCT: REQUIRED AT HANGAR AF FOR ORDNANCE DISCONNECT AND REMOVAL FROM SRB's.

   TECH CONTACT: KSC/NE-M7/STEVE TOWNSEND/321 861-3584

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/13/90
RESPONSE TRACKING: Z2823 Z3837

[PRD] DATABASE RECORD: 15518 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/08/91
INITIAL DATE: 09/14/90
ITEM NUMBER: T4K DATE LAST CHANGED: 11/29/06
SECTION: 5321 TIME LAST CHANGED: 09:44:14

REQUESTER: JSC
TEST CODE: EAFB LANDNG LAUNCH STSALL

ASSOCIATED DOC: 20007S 20017S 20026S 20028S
TRACKING NO. KING2001 L009-5 L103-8 L3939 R109-57
R26180 R4109

1. DESCRIPTION: OPERATIONAL CREW WORN EQUIP./CREW ESCAPE EQUIP.

CONTINUED

[PRD] DATABASE RECORD: 15518
ITEM NUMBER: T4K

SUPPORT IS REQUIRED FOR THE FLIGHT CREW LAUNCH/ENTRY SUIT (OPERATIONAL CREW WORN EQUIP./CREW ESCAPE EQUIP.). PORTABLE AIR VENTILATORS (PAV'S)

AND EMERGENCY OXYGEN SYSTEMS WILL BE PROVIDED BY JSC.

A. PROVIDE SUPPORT FOR 24 EACH, PORTABLE AIR VENTILATORS (PAV'S) P/N SEB-38101114-304 AT KSC. PAV'S WILL BE USED AT KSC IN SUPPORT OF ALL CREW ACTIVITIES INVOLVING THE ALTITUDE PROTECTION SYSTEM.
   1. RECEIVING AND INSPECTION OF PAV'S
   2. STORAGE
   3. MAINTAIN DATA PACKAGES (DOCUMENTATION)
   4. SERVICING OF PAV'S
   5. TRANSPORTATION OF PAV'S
   6. DESERVICING OF PAV'S
   7. SHIPPING OF PAV'S (AS REQ'D TO SUPPORT SHUTTLE PROGRAM)
   8. QUALITY CONTROL SUPPORT
   9. PERIODIC CERTIFICATION (EVERY TWO YEARS), ALL MAINTENANCE AND PARTS REPLACEMENT AS REQUIRED.

B. PROVIDE SUPPORT FOR 8 EACH, PORTABLE AIR VENTILATORS (PAV'S) P/N SEB-38101114-304 AT DFRC IN SUPPORT OF ALL CREW ACTIVITIES INVOLVING THE ALTITUDE PROTECTION SYSTEM.
   1. RECEIVING AND INSPECTION OF PAV'S
   2. STORAGE
   3. MAINTAIN DATA PACKAGES (DOCUMENTATION)
   4. SERVICING OF PAV'S
   5. TRANSPORTATION OF PAV'S
   6. DESERVICING OF PAV'S
   7. SHIPPING OF PAV'S (AS REQ'D TO SUPPORT SHUTTLE PROGRAM)
   8. QUALITY CONTROL SUPPORT
   9. PERIODIC CERTIFICATION (EVERY TWO YEARS), ALL MAINTENANCE AND PARTS REPLACEMENT AS REQUIRED.

C. PROVIDE SUPPORT FOR CHARGING AND SERVICING THE EMERGENCY OXYGEN SYSTEM FOR CREW ESCAPE EQUIPMENT.
   1. TRANSPORTATION FROM O&C SUIT ROOM TO CHARGING/SERVICING AREA
   2. CHARGING

CONTINUED

[PRD] DATABASE RECORD: 15518
ITEM NUMBER: T4K

3. DOCUMENTATION UPDATE
4. TRANSPORTATION FROM CHARGING/SERVICING AREA TO O&C SUIT ROOM
5. QUALITY CONTROL SUPPORT

NOTE 1. TRAINING WILL BE PROVIDED BY JSC AS REQUIRED.

NOTE 2. A MAXIMUM OF FOUR CHARGES PER FLOW PER LAUNCH/ENTRY SUIT (TCDT, EMERGENCY EGRESS, AND LAUNCH SUPPORT) WILL BE REQUIRED FOR PAV'S AND EMERGENCY OXYGEN SYSTEMS.

COORD: JSC/MV7/RON WOODS/321 867-6733 JSC RESIDENT OFFICE, KSC, OC-KSC

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-NE-M8 PH-H SGS-267
SGS-347 USK-020

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/30/91
RESPONSE TRACKING: Z3981 Z4118 Z4370

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5322 - SERVICES - AIR CONDITIONING AND ENVIRONMENTAL OBSERVATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 312690 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/29/90
INITIAL DATE: 01/29/90
ITEM NUMBER: D6K DATE LAST CHANGED: 05/31/07
SECTION: 5322 TIME LAST CHANGED: 07:28:07

REQUESTER: HSFS
TEST CODE: DODALS DODELS S51C13 STSALL

TRACKING NO. KING2001 L3615 R109-25 SCRUB06
PRIORITY: MANDATORY
RATIONALE: CONTINGENCY SUPPORT EQUIPMENT FOR DoD HAZARD ASSESSMENT.

1. DESCRIPTION: TOXIC VAPOR DETECTOR AT DOD ALS/ELS

PROVIDE 2 DRAEGER DETECTORS AND 1 HYDROGEN VAPOR DETECTOR AT EACH DOD ALS/ELS CAPABLE OF DETECTING HAZARDOUS/TOXIC CHEMICALS WHICH MAY BE PRESENT FOLLOWING ORBITER LANDING.

POC: TIM O'BRIEN/PH-L/321 861-9303
MIKE KUTA/USK-426/321 861-3890

TECH CONTACT: (D) HSFS-T/321 494-5983

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: PH-L USK-426

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/31/90
RESPONSE TRACKING: Z3612

[PRD] DATABASE RECORD: 580257 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/01/05
INITIAL DATE: 02/01/05
ITEM NUMBER: T7K DATE LAST CHANGED: 04/06/05
SECTION: 5322 TIME LAST CHANGED: 13:04:28

REQUESTER: JSC
SUBREQUESTER: JSC/CA4
TEST CODE: LANDING STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. L05-2-1 R0504-4

1. DESCRIPTION: ORBITER CREW MODULE CABIN AIR PURGE UNIT AT DFRC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5322 - SERVICES - AIR CONDITIONING AND ENVIRONMENTAL OBSERVATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 580257
ITEM NUMBER: T7K

PROVIDE A PURGE AIR UNIT AT DFRC TO PROVIDE THERMAL, HUMIDITY, AND CONTAMINATION CONDITIONING OF THE ORBITER CREW MODULE DURING ASTRONAUT FLIGHT CREW EGRESS, ORBITER SAFING, AND MISSION SCIENCE OFF-LOAD.

THE LACK OF PURGE AIR REDUCES MANLOADING REQUIREMENTS FROM 10 TO 6, WHICH MAY AFFECT SUCCESS OF TIME CRITICAL SCIENCE. WITHOUT PURGE AIR, CONTAMINATING DESERT DUST WILL ENTER THE CREW MODULE, CONDENSATION ON COLD PLATES AND SURFACES WILL OCCUR AND PERSONNEL WILL BE EXPOSED TO UNCOMFORTABLE TEMPERATURE EXTREMES WHILE PERFORMING PHYSICALLY DEMANDING WORK.

THE PURGE AIR UNIT SHOULD MEET ALL OF THE CREW MODULE PURGE AIR PARAMETERS AS SPECIFIED IN JSC SE-S-0073, "SPECIFICATION FLUID PROCUREMENT AND USE CONTROL" DOCUMENT.

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: PH-L USK-426

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/11/05

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5330 - SERVICES - PROCUREMENT, SHIPPING, RECEIVING, AND STOCK CONTROL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 335540 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/15/89
INITIAL DATE: 06/15/89
ITEM NUMBER: K1X DATE LAST CHANGED: 03/22/07
SECTION: 5330 TIME LAST CHANGED: 08:18:33

REQUESTER: KSC
SUBREQUESTER: NE-E
TEST CODE: EAFB MSBLS STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 R109-23 R2831 SCRUB06
PRIORITY: REQUIRED
RATIONALE: REQUIRED TO MAINTAIN MSBLS AT DFRC.

1. DESCRIPTION: PACKAGING AND SHIPPING AT DFRC

PACKAGING AND SHIPPING OF MSBLS EQUIPMENT TO DESIGNATED DEPOTS IS REQUIRED.

TECH CONTACT: JOHN KIRIAZES/NE-E1/321 861-3700

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FM
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/21/89
RESPONSE TRACKING: Z2824

[PRD] DATABASE RECORD: 344871 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K3D DATE LAST CHANGED: 05/31/07
SECTION: 5330 TIME LAST CHANGED: 08:07:17

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DODALS DODELS STSALL
TRACKING NO. DB98 KING2001 R109-23 R2848 SCRUB06
PRIORITY: REQUIRED
RATIONALE: BACKUP SUPPORT AVAILABLE.

1. DESCRIPTION: SHIPPING AND RECEIVING AT DOD ALS/ELS

PROVIDE SHIPPING AND RECEIVING VIA COMMERCIAL OR GOVERNMENT

CONTINUED

[PRD] DATABASE RECORD: 344871
ITEM NUMBER: K3D

PROVIDED TRANSPORTATION. THIS SERVICE IS EXPECTED TO BE LIMITED SINCE MOST EQUIPMENT WILL ARRIVE AND DEPART BY DEDICATED TRANSPORT.

TECH CONTACT: KSC/TIM O'BRIEN/PH-L/321 861-9303
KSC/MIKE KUTA/USK-426/321 861-3890
HSFS-O/321-494-5116

NOTE: LOCAL DOD TRANSPORTATION MANAGEMENT OFFICES (TMO) WILL ASSIST WITH SHIPPING AND RECEIVING.

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/10/94
RESPONSE TRACKING: Z2840 Z6522

[PRD] DATABASE RECORD: 345117 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K4Z DATE LAST CHANGED: 12/04/06
SECTION: 5330 TIME LAST CHANGED: 08:42:01

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 R109-23 R2832 SCRUB06
PRIORITY: REQUIRED
RATIONALE: BACKUP SUPPORT AVAILABLE.

1. DESCRIPTION: SHIPPING AND RECEIVING AT WSSH

PROVIDE SHIPPING AND RECEIVING VIA COMMERCIAL OR GOVERNMENT PROVIDED TRANSPORTATION.

TECH CONTACT: KSC/LOUIE GARCIA/PH-L/321 867-6196
KSC/MIKE KUTA/USK-426/321 861-3890

CONTINUED

[PRD] DATABASE RECORD: 345117
ITEM NUMBER: K4Z

POC: ROBERT MITCHELL/RC1/505 524-5774

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/02/89
RESPONSE TRACKING: Z2825

[PRD] DATABASE RECORD: 346173 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K5Z DATE LAST CHANGED: 12/04/06
SECTION: 5330 TIME LAST CHANGED: 08:43:24

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 R109-23 R2832 SCRUB06
PRIORITY: REQUIRED
RATIONALE: ALTERNATE SOURCES AVAILABLE

1. DESCRIPTION: GENERAL SUPPLIES AT WSSH

PROVIDE THE GROUND TURNAROUND TEAM WITH ACCESS TO EXISTING
GOVERNMENT SUPPLY SYSTEMS AT WSMR OR HAFB.

TECH CONTACT: KSC/LOUIE GARCIA/PH-L/321 867-6196
KSC/MIKE KUTA/USK-426/321 861-3890

POC: ROBERT MITCHELL/RC1/505 524-5774

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/02/89
RESPONSE TRACKING: Z2825

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5330 - SERVICES - PROCUREMENT, SHIPPING, RECEIVING, AND STOCK CONTROL

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 346387 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/15/89
INITIAL DATE: 06/15/89
ITEM NUMBER: K6X DATE LAST CHANGED: 03/22/07
SECTION: 5330 TIME LAST CHANGED: 08:18:59

REQUESTER: KSC
SUBREQUESTER: NE-E1
TEST CODE: EAFB MSBLS STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 R2809 R2831 SCRUB06
PRIORITY: MANDATORY
RATIONALE: REQUIRED TO MAINTAIN MSBLS AT DFRC.

1. DESCRIPTION: SUPPLY SERVICES AT DFRC

PROVIDE THE FOLLOWING SUPPLY SERVICE AT DFRC:
A. PROVIDE SPARE PARTS SUPPORT FOR MSBLS INCLUDING RECEIVING, STORAGE AND ISSUE. (APPROX. 200 SQ. FT. OF FLOOR SPACE WILL BE REQUIRED TO SUPPORT THE 100 MSBLS ITEMS.)
B. GENERAL OFFICE SUPPLIES FOR THE TURNAROUND OPS TEAM.

TECH CONTACT: JOHN KIRIAZES/NE-E1/321 861-3700

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/21/89
RESPONSE TRACKING: Z2824

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5340 - SERVICES - PROPELLANTS, GASES, AND CHEMICALS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD:	571932	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	LLS	APPROVAL DATE:	05/22/03
		INITIAL DATE:	05/22/03
ITEM NUMBER:	K0.1EKX	DATE LAST CHANGED:	03/22/07
SECTION:	5340	TIME LAST CHANGED:	08:19:32

REQUESTER:	KSC	
SUBREQUESTER:	KSC/PH-L	USK-426
TEST CODE:	INFO	STSALL
TRACKING NO.	R03-06-1	

1. DESCRIPTION: TUBEBANKS, CRYO TANKS AND TANKERS

TUBEBANK, CRYO TANKS, AND TANKER GAUGES ARE TO BE CALIBRATED USING A "NO OIL" PROCESS.

THE AFFTC TUBEBANK MANIFOLDS ARE TO BE CLEANED TO 500A CLEANINESS LEVEL PER SN-C-0005, TABLE A.1 AND A PROCESS ESTABLISHED FOR PERIODICALLY CLEANING EVERY FIVE YEARS.

NASA DRYDEN OWNED TUBEBANK MANIFOLDS ARE TO BE CLEANED TO 500A CLEANINESS LEVEL PER SN-C-0005, TABLE A.1 AND A PROCESS ESTABLISHED FOR PERIODICALLY CLEANING EVERY FIVE YEARS.

KSC WILL INSTALL ZEOLYTE FILTERS AT THE GN2 AND GHE INTERFACE BETWEEN THE COMMODITY SOURCE AND THE REGULATOR PANELS. THE ZEOLYTE FILTERS ARE RATED TO 6000 PSI AND FOR A 450 SCFM FLOW. AT A MINIMUM, THE ZEOLYTE FILTERS ARE TO BE CHANGED OUT AFTER A TURNAROUND AT DFRC.

KSC WILL INSTALL A REFERENCE FLEXHOSE ON THE FILTER INLETS. THE REFERENCE FLEXHOSES ARE TO BE REMOVED AFTER EACH SHUTTLE MISSION AND ROUTED TO WILTEC AT KSC FOR RINSE ANALYSIS, CLEANING, AND VERIFICATION OF CLEANLINESS FOR NEXT USE. FOR NVR<2.0 MG/ SQ FT NO ACTIONS REQUIRED PRIOR TO SUPPORT OF NEXT MISSION. FOR NVR >2.0 MG/SQ FT, THE INDICATED TUBEBANK MANIFOLD IS TO BE CLEANED TO 500A CLEANINESS, AND FILTER ELEMENTS ARE TO BE REPLACED.

KSC WILL ESTABLISH A PROCESS TO FILL THE K-BOTTLES USED FOR SHUTTLE TURNAROUND OPERATIONS. THE COMMODITIES WILL PASS FROM THE TUBEBANKS AND THROUGH ZEOLYTE FILTERS PRIOR TO FILLING THE K-BOTTLES.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/14/05

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5340 - SERVICES - PROPELLANTS, GASES, AND CHEMICALS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 571932
ITEM NUMBER: K0.1EKX

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: USK-426

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/22/03

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/22/03

[PRD] DATABASE RECORD: 312164 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K1X DATE LAST CHANGED: 03/22/07
SECTION: 5340 TIME LAST CHANGED: 08:19:59

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 R109-22 R2809 R2823
SCRUB06
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING OPERATIONS AT DFRC.

1. DESCRIPTION: PROCURING FLUIDS, GASES & CHEMICALS - DFRC

PROCURE FLUIDS, GASES AND CHEMICALS AS REQUESTED
FOR OPERATIONS AT DFRC.

TECH CONTACT: KSC/DEAN SCHAAF/PH-L/321 861-9311
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/30/89

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5340 - SERVICES - PROPELLANTS, GASES, AND CHEMICALS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 312164
ITEM NUMBER: K1X

RESPONSE TRACKING: Z2811

[PRD] DATABASE RECORD: 189608 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K7X DATE LAST CHANGED: 03/22/07
SECTION: 5340 TIME LAST CHANGED: 08:20:26

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 R109-22 R2809 R3403
SCRUB06
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING OPERATIONS AT DFRC.

1. DESCRIPTION: DFRC FLUIDS/GASES

PROVIDE 750-GAL OF POTABLE WATER FOR MMH HTV SCRUBBER.
SOURCE IS COMMERCIAL.

TECH CONTACT: KSC/DEAN SCHAAF/PH-L/321 861-9311
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/15/90
RESPONSE TRACKING: Z3641

[PRD] DATABASE RECORD: 202124 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K8X DATE LAST CHANGED: 03/22/07
SECTION: 5340 TIME LAST CHANGED: 08:20:56

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5340 - SERVICES - PROPELLANTS, GASES, AND CHEMICALS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 202124
ITEM NUMBER: K8X

TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 R109-22 R2809 R3403
SCRUB06
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING OPERATIONS AT DFRC.

1. DESCRIPTION: DFRC FLUIDS/GASES

25% SODIUM HYDROXIDE HTV SCRUBBER SOLUTION SPEC-JBOSC-PID-08.
PROCURE AND PROVIDE 750-GAL FOR N2O4 HTV SCRUBBER.
SOURCE IS COMMERCIAL.

TECH CONTACT: KSC/DEAN SCHAAF/PH-L/321 861-9311
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/15/90
RESPONSE TRACKING: Z3471

[PRD] DATABASE RECORD: 226930 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/23/94
INITIAL DATE: 05/18/89
ITEM NUMBER: K13X DATE LAST CHANGED: 03/22/07
SECTION: 5340 TIME LAST CHANGED: 08:21:25

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 R109-22 R2809 R3403
R6555 SCRUB06 SHAW94
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING OPERATIONS AT DFRC.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5340 - SERVICES - PROPELLANTS, GASES, AND CHEMICALS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 226930
ITEM NUMBER: K13X

1. DESCRIPTION: DEIONIZED WATER - DFRC

PROVIDE DEIONIZED WATER FOR USE IN THE CLEANING AND SAMPLING ROOM AT DFRC, PER JSC SPECIFICIATION C-20C. PRIOR TO LAUNCH AND DURING TURN AROUND AT DFRC.

TECH CONTACT: KSC/PH-L/DEAN SCHAAF/321 861-9311
KSC/USK-426/MIKE KUTA/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/31/94
RESPONSE:

NOTE: DFRC HAS INSTALLED DEIONIZED WATER SYSTEM IN TRAILER.

RESPONSE TRACKING: Z3641 Z6551

[PRD] DATABASE RECORD: 232388 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/04/03
INITIAL DATE: 10/31/89
ITEM NUMBER: K16EKX DATE LAST CHANGED: 03/22/07
SECTION: 5340 TIME LAST CHANGED: 08:22:02

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S 25022S
TRACKING NO. DB98 KING2001 L3315 L4314 R03-06-1
R109-22 R2809 R3403 SCRUB06
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING OPERATIONS AT DFRC.

1. DESCRIPTION: DFRC FLUIDS/GASES

CONTINUED

[PRD] DATABASE RECORD: 232388
ITEM NUMBER: K16EKX

GN2 (GASEOUS NITROGEN) SPEC MIL-PRF-27401D

A. PROCURE AND PROVIDE 50,000 SCF GN2 IN AFFTC PROVIDED TUBEBANK AT 2400 PSI. SOURCE IS AFFTC AND AFRL. REFILL AS REQUIRED.

B. PROCURE AND FILL ONE 50,000 SCF TUBEBANK AT 6,000 PSIG (DFRC PROVIDED TUBEBANK) FOR SYSTEMS VALIDATION AND DESERVICING. AFFTC WILL PROVIDE TRACTOR/DRIVER TO AND FROM AFRL. REFILL AS REQUIRED.

C. FILL GN2 LAB SERVICE CART AT 2400 PSIG DFRC AND KSC TECHNICIANS WILL PERFORM THESE SERVICES.

D. FILL 8 BOTTLES ON THE SCA GN2 SERVICING CART. SOURCE IS DFRC 6000 PSI GN2 TUBEBANK. DFRC AND KSC WILL PROVIDE SERVICING TECHNICIANS.

NOTE: GN2 FOR ORBITER DESERVICING WILL BE PROVIDED FROM KSC LEASED LN2 RECHARGER.

TECH CONTACT: KSC/PH-L/DEAN SCHAAF/321 861-9311
KSC/USK-426/MIKE KUTA/321 861-3890

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/27/05
RESPONSE TRACKING: Z3322 Z3484 Z4340

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-TA SGS-347 WYLE-267

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/13/03
RESPONSE TRACKING: Z03-06-6 Z3322 Z3401 Z4340

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5340 - SERVICES - PROPELLANTS, GASES, AND CHEMICALS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 232388
ITEM NUMBER: K16EKX

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/04/03
RESPONSE TRACKING: Z03-06-1 Z035-2 Z3641 Z4340

[PRD] DATABASE RECORD: 302242 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/04/03
INITIAL DATE: 05/18/89
ITEM NUMBER: K17EKX DATE LAST CHANGED: 03/22/07
SECTION: 5340 TIME LAST CHANGED: 08:22:33

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DFRC EAFB S0026.100 S0026.200
S0026.300 S0026.500 STSALL

ASSOCIATED DOC: 20026S 25022S
TRACKING NO. DB98 KING2001 L4314 L6302 R03-06-1
R109-22 R2809 R3403 SCRUB06
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING OPERATIONS AT DFRC.

1. DESCRIPTION: DFRC FLUIDS/GASES

GHe (GASEOUS HELIUM) SPEC MIL-PRF-27407B
A. PROCURE AND PROVIDE 2,400 SCF AT 1,850 PSIG FOR NASA PROVIDED K-BOTTLES. REQUIRED FOR LAB OPERATIONS AND DESERVICING. KSC FILLS K-BOTTLES FROM TUBE BANKS LISTED BELOW.

B. OBTAIN AND PROVIDE 100,000 SCF OF GHe FROM AFRPL SOURCE. REQUIRED EACH LAUNCH/LANDING.

C. AFRL PROVIDE PERMANENT GHe HOLDING VESSEL WITH CAPABILITY OF HOLDING 150,000 SCF OF GHe.

D. DFRC PROVIDE ONE (1) 6,000 PSIG TUBE BANK ON LAUNCH MINUS FOUR (4) DAYS. TUBE BANK WILL BE USED FOR ONBOARD GHe TANK PRESSURIZATION WHILE ORBITER IS STILL ON RUNWAY (CONTINGENCY). REQUIRED FOR EACH POTENTIAL LANDING. AFFTC WILL PROVIDE TRACTOR/ DRIVER TO AND FROM SOURCE AT AFRL. REFILL AS REQUIRED.

CONTINUED

[PRD] DATABASE RECORD: 302242
ITEM NUMBER: K17EKX

E. AFFTC PROVIDE (3), 2,400 PSIG TUBE BANKS, FILLED FROM AFRPL SOURCE. REQUIRED FOUR (4) WORKING DAYS PRIOR TO EACH LAUNCH. REFILL AS REQUIRED.

TECH CONTACT: KSC/DEAN SCHAAF/PH-L/321 861-9311
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/27/05
RESPONSE TRACKING: Z3446 Z4340 Z7001

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: USK-426

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/04/03

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/04/03
RESPONSE TRACKING: Z03-06-1 Z3641 Z4340 Z6926

[PRD] DATABASE RECORD: 316184 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/21/03
INITIAL DATE: 05/30/89
ITEM NUMBER: K18EX DATE LAST CHANGED: 03/22/07
SECTION: 5340 TIME LAST CHANGED: 08:23:02

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S 25022S
TRACKING NO. DB98 KING2001 L4314 R03-06-1 R109-22
R2809 R3431 SCRUB06

CONTINUED

[PRD] DATABASE RECORD: 316184
ITEM NUMBER: K18EX

PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING OPERATIONS AT DFRC.

1. DESCRIPTION: DFRC FLUIDS/GASES

LO2 (LIQUID OXYGEN)
SPEC MIL-PRL-25508F GRADE A, TYPE II (PROCURE)

A. OBTAIN AND PROVIDE 2000-GAL FOR SYSTEMS TEST/VALIDATION LAIR MIX. SOURCE IS AFFTC.

B. OBTAIN AND PROVIDE 4000-GAL FOR LAIR MIXING FOR ORBITER DESERVICING - LAIR MIXING FOR SCAPE SUPPORT (W/SAMPLING CERTIFICATION). SOURCE IS AFFTC/ALC. REQUIRED FOR EACH LANDING.

TECH CONTACT: KSC/PH-L/DEAN SCHAAF/321 861-9311
KSC/USK-426/MIKE KUTA/321 861-3890

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/27/05
RESPONSE TRACKING: Z3420 Z4340

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/21/03
RESPONSE TRACKING: Z03-06-1 Z3641 Z4340

[PRD] DATABASE RECORD: 328906 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/04/03
INITIAL DATE: 05/18/89
ITEM NUMBER: K19EX DATE LAST CHANGED: 03/22/07
SECTION: 5340 TIME LAST CHANGED: 08:23:32

REQUESTER: KSC

CONTINUED

[PRD] DATABASE RECORD: 328906
ITEM NUMBER: K19EX

SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DFRC EAFB S0026.100 STSALL

ASSOCIATED DOC: 20026S 25022S
TRACKING NO. DB98 KING2001 L4314 L7004 L9801
R03-06-1 R2809 R3403
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING OPERATIONS AT DFRC.

1. DESCRIPTION: DFRC FLUIDS/GASES

LN2 (LIQUID NITROGEN) SPDC MIL-P-27401C TYPE II, GRADE B

A. OBTAIN AND PROVIDE A MINIMUM OF 4000-GAL FOR LAIR SYSTEMS CHECKOUT AND LIAR MIXING FOR SCAPE DURING GSE/SYSTEMS VALIDATION. SOURCE IS AFFTC.

B. OBTAIN AND PROVIDE 20,000-GAL FOR CONVERSION TO GN2 FOR ORBITER SSME HPFTP PURGE AND DRYING AND MDD DESERVICING OPERATIONS AT 20 HOURS AFTER LANDING. SOURCE IS AFFTC. REQUIRED FOR EACH LANDING.

C. AFFTC TO PROVIDE TWO (2) 6,000 GAL LN2 TANKERS AND DRIVERS TO TRANSPORT LN2 REQUESTED IN B ABOVE, TO ENSURE A CONTINUOUS SUPPLY FOR RECHARGER.

D. NASA DFRC TO PROVIDE ONE (1) 4,000 GAL LN2 TANKER TO TRANSPORT LN2 REQUESTED IN B ABOVE. AFFTC TO PROVIDE DRIVER FOR FILL/REFILL. (SHUTTLE SUPPORT ONLY).

TECH CONTACT: KSC/PH-L/DEAN SCHAAF/321 861-9311
KSC/USK-426/MIKE KUTA/321 861-3890

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/27/05
RESPONSE TRACKING: Z3421 Z4340 Z6922

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5340 - SERVICES - PROPELLANTS, GASES, AND CHEMICALS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 328906
ITEM NUMBER: K19EX

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 06/04/03
RESPONSE:
REF. ITEM C., EAFB WILL PROVIDE 1 LN 2 TANKER; THE OTHER WILL BE
PROVIDED BY DFRC.

RESPONSE TRACKING: Z03-06-1 Z3471 Z4340 Z6926

[PRD] DATABASE RECORD: 179044 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/25/95
INITIAL DATE: 05/18/89
ITEM NUMBER: K19.1E DATE LAST CHANGED: 06/05/07
SECTION: 5340 TIME LAST CHANGED: 10:03:29

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB S0026.500 STSALL

ASSOCIATED DOC: 20026S 25022S
TRACKING NO. DB98 KING2001 L4314 L7004 R109-22
R2809 R3403
PRIORITY: REQUIRED
RATIONALE: TERTIARY LANDING SITE BECOMES MANDATORY FOR LANDING
AT WSSH.

1. DESCRIPTION: AFFTC FLUIDS/GASES

LN2 (LIQUID NITROGEN) SPEC: MIL-P-27401C, TYPE II, GRADE B

A. PROCURE 1000-GAL THROUGH SA-ALC CHANNEL AND PROVIDE TO DFRC ON ORDER FOR SYSTEMS TEST/VALIDATION LAIR MIXING (W/SAMPLING CERTIFICATION). SOURCE IS ALC.

B. PROCURE 14,000-GAL THROUGH SA-ALC CHANNEL AND PROVIDE TO DFRC ON ORDER FOR SUPPORT OF LAIR MIXING AND GN2 CONVERSION DURING ORBITER DESERVICING (W/SAMPLING CERTIFICATION). SOURCE IS ALC. REQUIRED FOR EACH LANDING.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5340 - SERVICES - PROPELLANTS, GASES, AND CHEMICALS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 179044
ITEM NUMBER: K19.1E

TECH CONTACT: CASEY WOOD/USK-426/321 861-3920
DENNY GAGEN/PH-M1/321 861-9301

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: BART KLEINFELDT/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/01/96
RESPONSE TRACKING: Z3446 Z4340 Z7707

[PRD] DATABASE RECORD: 351440 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/14/92
INITIAL DATE: 08/29/89
ITEM NUMBER: K24Z DATE LAST CHANGED: 11/21/06
SECTION: 5340 TIME LAST CHANGED: 07:44:35

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. KING2001 L3403 L5407 R109-22 R2686
R2906 SCRUB06
PRIORITY: REQUIRED
RATIONALE: TERTIARY LANDING SITE BECOMES MANDATORY FOR LANDING AT WSSH.

1. DESCRIPTION: WSTF FLUIDS/GASES

GN2 (GASEOUS NITROGEN) SPEC: MIL-P-27401C - PROCURE AND PROVIDE 1,800 SCF AT 1,850 PSIG IN K- BOTTLE QUANTITIES FOR GSE TEST/SITE ACTIVATION.

TECH CONTACT: KSC/PH-L/LOUIE GARCIA/321 867-6196
KSC/USK-426/MIKE KUTA/321 861-3890

POINT OF CONTACT: ROBERT MITCHELL/RC1/505-524-5774

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5340 - SERVICES - PROPELLANTS, GASES, AND CHEMICALS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 351440
ITEM NUMBER: K24Z

RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/14/92
RESPONSE TRACKING: Z26127 Z26146 Z2915 Z3433 Z5407

[PRD] DATABASE RECORD: 352859 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/04/92
INITIAL DATE: 03/07/88
ITEM NUMBER: K25Z DATE LAST CHANGED: 11/21/06
SECTION: 5340 TIME LAST CHANGED: 07:46:22

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 L5314 R109-22 R2686
SCRUB06
PRIORITY: REQUIRED
RATIONALE: TERTIARY LANDING SITE BECOMES MANDATORY FOR LANDING AT WSSH.

1. DESCRIPTION: GHe TUBE BANK SUPPORT

WSTF WILL PROVIDE A 2800 TO 3200 PSIG GHe TUBE BANK TO BE BACK ON SITE AT WSSH PAD AREA BY 36 HOURS AFTER NOTIFICATION. THE TUBE BANK IS TO HAVE AT LEAST 50,000 SCF GHe AVAILABLE DOWN TO 2,000 PSIG. A BACKUP TUBE BANK IS TO BE AVAILABLE WITH 24 HOURS NOTIFICATION. GHe IS TO BE CERTIFIED TO MIL-P-27321.

TECH CONTACT: KSC/PH-L/LOUIE GARCIA/321 867-6196
KSC/USK-426/MIKE KUTA/321 861-3890

POINT OF CONTACT: ROBERT MITCHELL/RC1/505-524-5774

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 04/12/01
RESPONSE:

CONTINUED

[PRD] DATABASE RECORD: 352859
ITEM NUMBER: K25Z

WSTF WILL SATISFY THIS REQUIREMENT THROUGH PRAX AIR. WSTF ROUTINELY ORDERS THIS PRODUCT AND THE VENDOR HAS ASSURED WSTF THAT THIS REQUIREMENT WILL BE FULFILLED AS WRITTEN.

RESPONSE TRACKING: 5421 Z100-4 Z26127

[PRD] DATABASE RECORD: 356335 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/10/03
INITIAL DATE: 03/07/88
ITEM NUMBER: K26KZ DATE LAST CHANGED: 01/08/07
SECTION: 5340 TIME LAST CHANGED: 11:26:42

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DFRC S0026.100 S0026.500 STSALL
WSSH

ASSOCIATED DOC: 20026S 20027S
TRACKING NO. DB98 KING2001 L5314 R03-06-3 R2686
SCRUB06
PRIORITY: REQUIRED
RATIONALE: TERTIARY LANDING SITE BECOMES MANDATORY FOR LANDING AT WSSH.

1. DESCRIPTION: LAIR DEWAR

VENDOR PROVIDED: EMPTY 4K GALLON TANKER, ONE FULL LN2 TANKER, AND ONE FULL LO2 TANKER FOR MIXING LIQUID AIR.

TECH CONTACT: KSC/PH-L/LOUIE GARCIA/321 867-6196
KSC/USK-426/MIKE KUTA/321 861-3890
WELDON DUPRIEST/WYLE-267/321 853-7732

POINT OF CONTACT: ROBERT MITCHELL/RC1/505-524-5774

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: SGS-347 WYLE-267

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/10/03

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5340 - SERVICES - PROPELLANTS, GASES, AND CHEMICALS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 356335
ITEM NUMBER: K26KZ

RESPONSE TRACKING: Z03-06-4

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: INFO RESPONSE DATE: 06/10/03
RESPONSE TRACKING: Z100-3 Z26146 Z26173 Z5421

[PRD] DATABASE RECORD: 357913 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/04/92
INITIAL DATE: 03/07/88
ITEM NUMBER: K27Z DATE LAST CHANGED: 11/21/06
SECTION: 5340 TIME LAST CHANGED: 07:50:06

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 L5314 R109-22 R2686
SCRUB06
PRIORITY: REQUIRED
RATIONALE: TERTIARY LANDING SITE BECOMES MANDATORY FOR LANDING AT WSSH.

1. DESCRIPTION: LO2/LN2 SUPPORT

WSTF WILL PROVIDE A 2,000 GAL LO2 CRYOGENIC TANKER WITH A MINIMUM OF 1,000 GAL CERTIFIED TO MIL-P-25508 LO2 AND 5,000 GAL CERTIFIED TO MIL-P-227401 FILLED LN2 CRYOGENIC TANKER TO WSSH PAD AREA BY 4 DAYS AFTER NOTIFICATION.

TECH CONTACT: KSC/PH-L/LOUIE GARCIA/321 867-6196
KSC/USK-426/MIKE KUTA/321 861-3890

POINT OF CONTACT: ROBERT MITCHELL/RC1/505-524-5774

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 04/12/01

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5340 - SERVICES - PROPELLANTS, GASES, AND CHEMICALS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 357913
ITEM NUMBER: K27Z

RESPONSE:
A 5000 GALLON TANKER WILL BE LEASED FROM JACK B. KELLY
AND DELIVERED TO WSTF WHERE IT WILL BE FILLED BY MATHESON
TRIGAS WITH LN2.

RESPONSE TRACKING: Z100-3 Z100-4 Z26146 Z5421

[PRD] DATABASE RECORD: 190793 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/20/98
INITIAL DATE: 08/23/89
ITEM NUMBER: K35E DATE LAST CHANGED: 06/05/07
SECTION: 5340 TIME LAST CHANGED: 10:04:03

REQUESTER: KSC
SUBREQUESTER: I-PH-L USK-705 VAL92003 VALE
TEST CODE: CCAFS STSALL
TRACKING NO. DB98 KING2001
PRIORITY: REQUIRED
RATIONALE: REQUIRED FOR SRB REFURBISHMENT OPERATIONS AT HANGER AF.

1. DESCRIPTION: DEIONIZED WATER - CCAFS

DELIVER DEIONIZED H2O AT SRB DISASSEMBLY FACILITY, CCAS. REAL TIME AS REQUIRED TO FILL TANK. TANK HOLDS 20,000 GALLONS.

DELIVERY OF WATER MUST BE ACCOMPANIED BY A SAMPLE ANALYSIS CONTAINING PH AND CONDUCTIVITY INFORMATION. (EXCEPTABLE PARAMETERS PH=7.0 + 1.0 / -1.3, SPECIFIC RESISTANCE = MICRO OHMS 2.0 X 10 -5).

TECH CONTACT: JOHN MULLEN/USK-705/321 853-5682

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: BART KLEINFELEDT/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/20/98

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5340 - SERVICES - PROPELLANTS, GASES, AND CHEMICALS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 290608 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K36X DATE LAST CHANGED: 03/22/07
SECTION: 5340 TIME LAST CHANGED: 08:24:06

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 R109-22 R2809 R3403
SCRUB06
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING OPERATIONS AT DFRC.

1. NAME/DESIG.: CHEMICAL WASTE DISPOSAL - DFRC
2. MIL SPEC NO.:
3. FED STOCK NO.:
4. UNITS:
5. RA OR SA:
6. QTY REQD/QTR.:
7. REMARKS: ESTABLISH CONTRACT(S) WITH COMMERCIAL OR OTHER
AGENCIES FOR HAZARDOUS WASTE DISPOSAL AND
IMPLEMENTING SUCH CONTRACT(S).

TECH CONTACT: KSC/PH-L/DEAN SCHAAF/321 861-9311
KSC/USK-426/MIKE KUTA/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/25/89
RESPONSE TRACKING: Z3471

[PRD] DATABASE RECORD: 236934 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/04/03
INITIAL DATE: 08/15/89
ITEM NUMBER: K37X DATE LAST CHANGED: 03/22/07
SECTION: 5340 TIME LAST CHANGED: 08:24:36

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5340 - SERVICES - PROPELLANTS, GASES, AND CHEMICALS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 236934
ITEM NUMBER: K37X

TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 R03-06-1 R109-22 R2809
R2846 R3416 SCRUB06
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING OPERATIONS AT DFRC.

1. DESCRIPTION: CHEMICAL WASTE DISPOSAL AT DFRC

PROVIDE CONTAINERS AND ARRANGE FOR DISPOSAL OF THE
FOLLOWING FLUIDS (CHEMICAL WASTE) FOR EACH LANDING AT DFRC:

MMH DRAINED FROM ORBITER	PERCHLOROETHYLENE TYPE I (350 GAL)
N2H4 (HYDRAZINE) (65 GAL)	CAUSTIC SOLUTION WASTE (350 GAL)
N2O4 DRAINED FROM ORBITER (415 GAL)	NITRIC ACID WASTE (50 GAL)
TRICHOLORTRIFLUOROETHANE (FREON 113-250 GAL)	IPA WASTE (175 GAL)
MMH HVT VAPOR SCRUBBER LIQUORS (2,250 GAL)	PHOSPHORIC ACID WASTE (50 GAL)
N2O4 HTV VAPOR SCRUBBER LIQUORS (2,250 GAL)	HYPERGOL SUMP WASTES (MMI) (50 GAL)
H2O WASTES (ECLSS)	HYPERGOL SUMP WASTES (N2O4)

TECH CONTACT: KSC/PH-L/DEAN SCHAAF/321 861-9311
KSC/USK-426/MIKE KUTA/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/04/03
RESPONSE TRACKING: Z03-06-1 Z2898 Z3411

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5340 - SERVICES - PROPELLANTS, GASES, AND CHEMICALS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 19175 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/15/89
INITIAL DATE: 08/15/89
ITEM NUMBER: K37.1X DATE LAST CHANGED: 03/22/07
SECTION: 5340 TIME LAST CHANGED: 08:25:03

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 R109-22 R3416
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING OPERATIONS AT DFRC.

1. DESCRIPTION: MAINTAIN STAINLESS STEEL DRUMS

MAINTAIN 6 EACH STAINLESS STEEL DRUMS FOR USE DURING HYPERGOLIC FUEL AND OXIDZER OFF-LOAD FROM ORBITER AT DFRC.

AIR FORCE CLEANING AND MAINTENANCE STANDARDS ARE ACCEPTABLE FOR THIS REQUIREMENT.

TECH CONTACT: KSC/PH-L/DEAN SCHAAF/321 861-9311
KSC/USK-426/MIKE KUTA/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/16/89
RESPONSE TRACKING: Z3411

[PRD] DATABASE RECORD: 246552 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/09/89
INITIAL DATE: 11/09/89
ITEM NUMBER: X38K DATE LAST CHANGED: 11/21/06
SECTION: 5340 TIME LAST CHANGED: 07:59:18

REQUESTER: DFRC
TEST CODE: DFRC EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. KING2001 L3322 R109-22 R2809 SCRUB06

CONTINUED

[PRD] DATABASE RECORD: 246552
ITEM NUMBER: X38K

1. DESCRIPTION: CHEMICAL WASTE DISPOSAL - DFRC

PLACE CONTAMINATED WASTE IN PROPER STORAGE CONTAINERS AND LABEL CONTAINERS AS TO CONTENTS AND STORE IN PROPER AREA PRIOR TO LEAVING DFRC AT COMPLETION OF OPERATION.

TECH CONTACT: KSC/PH-L/LOUIE GARCIA/321 867-6196
KSC/USK-426/MIKE KUTA/321 861-3890

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: PH-L USK-426

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/09/89
RESPONSE TRACKING: Z3333

[PRD] DATABASE RECORD: 246704 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/09/89
INITIAL DATE: 11/09/89
ITEM NUMBER: X39K DATE LAST CHANGED: 11/21/06
SECTION: 5340 TIME LAST CHANGED: 08:02:49

REQUESTER: DFRC
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. KING2001 L3322 R109-22 SCRUB06

1. DESCRIPTION: SPILL CONTAINMENT AND CLEAN-UP - DFRC

PROVIDE PERSONNEL AND EQUIPMENT FOR SPILL CONTAINMENT AND CLEAN-UP WITHIN 72 HOURS OF A REQUEST FOR SUPPORT.

TECH CONTACT: KSC/PH-L/DEAN SCHAAF/321 861-9311
KSC/USK-426/MIKE KUTA/321 861-3890

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: PH-L USK-426

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/09/89

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5340 - SERVICES - PROPELLANTS, GASES, AND CHEMICALS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 246704
ITEM NUMBER: X39K

RESPONSE TRACKING: Z3333

[PRD] DATABASE RECORD: 357091 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/17/96
INITIAL DATE: 08/19/88
ITEM NUMBER: K41Z DATE LAST CHANGED: 11/21/06
SECTION: 5340 TIME LAST CHANGED: 08:40:51

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S 25044S
TRACKING NO. DB98 KING2001 L5320 L5509 L5531
L7904 R109-22 R26267 R2686 SCRUB06
PRIORITY: REQUIRED
RATIONALE: TERTIARY LANDING SITE BECOMES MANDATORY FOR LANDING AT WSSH.

1. DESCRIPTION: CHEMICAL FLUID COLLECTION/DISPOSAL AT WSSH

WSTF ENVIRONMENTAL AND PROPULSION TEST OFFICE TO PROVIDE COLLECTION AND, IF REQUIRED, DISPOSAL/COORDINATION OF THE FOLLOWING TYPE OF FLUIDS: N204, N2H4, MMH, MMH/N204 HTV SCRUBBER LIQUORS, FREON 113, NH3 AMMONIA AND IPA. THE FLUIDS WILL BE SAMPLED FROM STORAGE CONTAINERS. IF WSTF LABORATORIES FINDS THE FLUIDS TO BE WITHIN SPECIFICATIONS, WSTF WILL RETAIN FOR INVENTORY AT AN APPROVED LOCATION.

DOT APPROVED CONTAINERS AND ASSOCIATED EQUIPMENT WILL BE PROVIDED BY KSC, REF. KPRD-I SECT 5310, ITEM K26K, DBR 012574.

TECH CONTACT: KSC/PH-L/LOUIE GARCIA/321 867-6196
KSC/USK-426/MIKE KUTA/321 861-3890

POINT OF CONTACT: ROBERT MITCHELL/RC1/505-524-5774

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/26/96

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5340 - SERVICES - PROPELLANTS, GASES, AND CHEMICALS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 357091
ITEM NUMBER: K41Z

RESPONSE:

RESPONSE TRACKING: Z26127 Z26190 Z5519 Z5543 Z7925

[PRD] DATABASE RECORD: 185507 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/16/96
INITIAL DATE: 03/07/88
ITEM NUMBER: K46Z DATE LAST CHANGED: 06/05/07
SECTION: 5340 TIME LAST CHANGED: 10:04:36

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 L7904 R109-22 R2686
PRIORITY: REQUIRED
RATIONALE: TERTIARY LANDING SITE BECOMES MANDATORY FOR LANDING AT WSSH.

1. DESCRIPTION: CHEMICAL WASTE DISPOSAL AT WSSH.

WSTF TO PROVIDE WATER FOR DILUTING ANY WASTE AS DIRECTED BY WSTF ENVIRONMENTAL.

TECH CONTACT: DANA GEIGER/USK-426/321 861-3106
DAN BAKER/PH-M1/321 861-9308

POINT OF CONTACT: ROBERT MITCHELL/RC1/505-524-5774

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/26/96
RESPONSE TRACKING: Z26146 Z7925

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5340 - SERVICES - PROPELLANTS, GASES, AND CHEMICALS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 209124 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/04/03
INITIAL DATE: 09/25/89
ITEM NUMBER: K52EX DATE LAST CHANGED: 03/22/07
SECTION: 5340 TIME LAST CHANGED: 08:26:37

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 L3418 R03-06-1 R109-22
R2809
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING OPERATIONS AT DFRC.

1. NAME/DESIG.: WASTE TANKER FOR MMH - DFRC
2. MIL SPEC NO.:
3. FED STOCK NO.:
4. UNITS:
5. RA OR SA:
6. QTY REQD/QTR.: 1000 GAL (MINIMUM)
7. REMARKS: TECH CONTACT: CASEY WOOD/USK-426/321 861-3920
DEAN SCHAAF/PH-L/321-9311

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/27/05
RESPONSE TRACKING: Z3471

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: NOWLCO SEE RESPONSE RESPONSE DATE: 06/04/03
RESPONSE: AFFTC NO LONGER HAS TANKERS. UNITS, HOWEVER DO EXIST
AT VAFB. NEED NEW TASKING.

RESPONSE TRACKING: Z03-06-1 Z3471

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5340 - SERVICES - PROPELLANTS, GASES, AND CHEMICALS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 209895 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/03/03
INITIAL DATE: 09/25/89
ITEM NUMBER: K53EX DATE LAST CHANGED: 03/22/07
SECTION: 5340 TIME LAST CHANGED: 08:27:30

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 L3418 R03-06-1 R109-22
R2809
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING OPERATIONS AT DFRC.

1. NAME/DESIG.: WASTE TANKER FOR N204 - DFRC
2. MIL SPEC NO.:
3. FED STOCK NO.:
4. UNITS:
5. RA OR SA:
6. QTY REQD/QTR.: 1000 GAL (MINIMUM)
7. REMARKS: TECH CONTACT: CASEY WOOD/USK-426/321 861-3920
DEAN SCHAAF/PH-L/321 861-9311

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/27/05
RESPONSE TRACKING: Z3471

SUPPLIER: DFRC AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: NOWLCO SEE RESPONSE RESPONSE DATE: 06/03/03
RESPONSE: AFFTC NO LONGER HAS WASTE TANKERS. UNITS,
HOWEVER DO EXIST AT VAFB. NEED NEW TASKING.

RESPONSE TRACKING: Z03-06-1 Z3471

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5340 - SERVICES - PROPELLANTS, GASES, AND CHEMICALS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 210217 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/03/03
INITIAL DATE: 05/18/89
ITEM NUMBER: K54E DATE LAST CHANGED: 06/05/07
SECTION: 5340 TIME LAST CHANGED: 10:05:04

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 R03-06-1 R109-22 R2809
R3403
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING OPERATIONS AT DFRC.

1. NAME/DESIG.: GHE TUBE BANK - DFRC
2. MIL SPEC NO.:
3. FED STOCK NO.:
4. UNITS:
5. RA OR SA:
6. QTY REQD/QTR.: 50,000 SCF AT 6000 PSI
7. REMARKS: AFFTC TO PROVIDE TRACTOR/DRIVER FOR SERVICING.

TECH CONTACT: CASEY WOOD/USK-426/321 861-3920
DENNY GAGEN/PH-M1/321 861-9301

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/27/05
RESPONSE TRACKING: Z3421

[PRD] DATABASE RECORD: 210461 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/23/89
INITIAL DATE: 08/23/89
ITEM NUMBER: K55E DATE LAST CHANGED: 06/05/07
SECTION: 5340 TIME LAST CHANGED: 10:05:32

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5340 - SERVICES - PROPELLANTS, GASES, AND CHEMICALS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 210461
ITEM NUMBER: K55E

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 R109-22 R2809 R3430
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING OPERATIONS AT DFRC.

1. NAME/DESIG.: GN2 TUBE BANK - DFRC
2. MIL SPEC NO.:
3. FED STOCK NO.:
4. UNITS:
5. RA OR SA:
6. QTY REQD/QTR.: PROVIDE 50,000 SCF AT 2400 PSI FOR WILTECH LAB PURGES AT DFRC.
7. REMARKS: PROVIDED BY AFFTC IN SUPPORT OF KSC ACTIVITIES AT DFRC.

TECH CONTACT: DENNY GAGEN/PH-M1/321 861-9301
CASEY WOOD/USK-426/321 861-3920

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: BART KLEINFELDT/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/23/89
RESPONSE TRACKING: Z3419

[PRD] DATABASE RECORD: 268322 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K58EX DATE LAST CHANGED: 03/22/07
SECTION: 5340 TIME LAST CHANGED: 08:28:18

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 R109-22 R2809 R3403
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING OPERATIONS AT DFRC.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5340 - SERVICES - PROPELLANTS, GASES, AND CHEMICALS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 268322
ITEM NUMBER: K58EX

1. DESCRIPTION: SUMP WASTE TANKER (HYPERGOL) (W/DRIVER)-DFRC

PROVIDE ONE HYPERGOL SUMP WASTE TANKER (WITH DRIVER),
MINIMUM 1,500-GAL CAPACITY FOR REMOVING DILUTED
WASTE FLUIDS FROM THE MDD SUMPS IF REQUIRED.

TECH CONTACT: DEAN SCHAAF/PH-L/321 861-9311
CASEY WOOD/USK-426/321 861-3920

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/22/89
RESPONSE TRACKING: Z3421

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: NOWLCO SEE RESPONSE RESPONSE DATE: 06/04/03
RESPONSE:
AFFTC NO LONGER PERFORMS THIS SERVICE. MUST BE CONTRACTED FROM
COMMERCIAL SOURCE.

RESPONSE TRACKING: Z03-06-1 Z3471

[PRD] DATABASE RECORD: 261130 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/07/88
INITIAL DATE: 03/07/88
ITEM NUMBER: K63Z DATE LAST CHANGED: 06/05/07
SECTION: 5340 TIME LAST CHANGED: 10:05:55

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 R109-22 R2686

CONTINUED

[PRD] DATABASE RECORD: 261130
ITEM NUMBER: K63Z

PRIORITY: REQUIRED
RATIONALE: TERTIARY LANDING SITE BECOMES MANDATORY FOR LANDING AT WSSH.

1. DESCRIPTION: TRACTOR, TANDEM AXLE (W/DRIVER)-WSSH

PROVIDE ONE TANDEM AXLE TRACTOR AT WSSH FOR POSITIONING OF SCAPE TRAILER (SLD OPS) AND GN2/GHE TUBEBANKS AND CRYOGENIC TANKERS. TURNAROUND ONLY.

CONTACT: DENNY GAGEN/PH-M1/321 861-9301
CASEY WOOD/USK-426/321 861-3920

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/01/88
RESPONSE TRACKING: Z26173

[PRD] DATABASE RECORD: 19403 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/04/92
INITIAL DATE: 09/14/89
ITEM NUMBER: K66Z DATE LAST CHANGED: 06/05/07
SECTION: 5340 TIME LAST CHANGED: 10:06:15

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 L3403 L5314 R109-22
PRIORITY: REQUIRED
RATIONALE: BACKUP TUBE BANK

1. DESCRIPTION: GN2 TUBE BANK SUPPORT AT WSSH

WSTF WILL PROVIDE A 2,800 TO 3,200 PSIG GN2 TUBE BANK ON SITE AT WSSH PAD AREA BY 4 DAYS AFTER NOTIFICATION. THE TUBE BANK IS TO HAVE AT LEAST 50,000 SCF GN2 AVAILABLE DOWN TO 2,000 PSIG. A BACKUP TUBE BANK IS TO BE AVAILABLE WITH 24 HOURS NOTIFICATION. GN2 IS TO BE CERTIFIED

CONTINUED

[PRD] DATABASE RECORD: 19403
ITEM NUMBER: K66Z

TO MIL-P-27401.

TECH CONTACT: DANA GEIGER/USK-426/321 861-3106
DAN BAKER/PH-M1/321 861-9308

POINT OF CONTACT: ROBERT MITCHELL/RC1/505-524-5774

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 04/12/01
RESPONSE:
AN ORDER WILL BE PLACED WITH JACK B. KELLY AND IT
WILL BE DELIVERED TO WSSH WITHIN 4 DAYS AFTER
NOTIFICATION.

RESPONSE TRACKING: Z100-3 Z100-4 Z3444 Z5421

[PRD] DATABASE RECORD: 590057 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/27/06
INITIAL DATE: 11/27/06
ITEM NUMBER: KT67K DATE LAST CHANGED: 11/29/06
SECTION: 5340 TIME LAST CHANGED: 07:17:29

REQUESTER: KSC JSC
SUBREQUESTER: KSC/OC
TEST CODE: T-RAD
TRACKING NO. R0611-7

1. NAME/DESIG.: GN2
2. MIL SPEC NO.: STD AEROSPACE GRADE
3. FED STOCK NO.: AS SUPPLIED
4. UNITS: SEE REMARKS
5. RA OR SA: SA
6. QTY REQD/QTR.:
7. REMARKS: ALSO PROVIDE THE FOLLOWING ITEMS TO SUPPORT T-RAD PROCESSING:

- ONE (1) PORTABLE PRESSURE REGULATOR UNIT (PPRU)

CONTINUED

[PRD] DATABASE RECORD: 590057
ITEM NUMBER: KT67K

P/N 82K03732-3 (INCLUDES 2 RELIEVE VALVES SET AT 330 PSI)
- ONE (1) 10 MICRON FILTER
- THREE (3) 6 - 10 FT FLEXHOSES
- ONE (1) 3/4" - 1/4" REDUCER-ADAPTER
- ONE (1) 3/8" - 1/4" REDUCER-ADAPTER
- KELLEM RESTRAINTS AND SAND BAGS

POC: KSC/NE-F3/DEAN KUNZ/321 861-4162

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: NE-F3

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/28/06

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5342 - SERVICES - CHEMICAL CLEANING

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 260298 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/07/88
INITIAL DATE: 03/07/88
ITEM NUMBER: K1Z DATE LAST CHANGED: 12/04/06
SECTION: 5342 TIME LAST CHANGED: 09:03:51

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20007S 20027S
TRACKING NO. DB98 KING2001 R109-32 R2686 SCRUB06
PRIORITY: REQUIRED
RATIONALE: TERTIARY LANDING SITE BECOMES MANDATORY FOR LANDING AT WSSH.

1. COMPONENT/SYS.;
A. NAME/DESCRIP: COMPONENTS
B. QUANTITY:
C. SPECIFICATION: KSC MANUAL 40-385
2. CLEANING RQMT: DECONTAMINATION FROM PROPELLANTS AND CHEMICALS FOR WHITE SANDS SPACE HARBOR OPERATIONS.
3. SERVICE:
4. REMARKS: TURNAROUND ONLY.

POC: ROBERT MITCHELL/RC1/505 524-5774

TECH CONTACT: KSC/LOUIE GARCIA/PH-L/321 867-6196
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO REQUESTERS RESPONSIBILIT RESPONSE DATE: 09/01/88
RESPONSE:
WSTF WILL DECONTAMINATE PER WSTF SPEC. UNLESS
A COPY OF THE DSC MANUAL IS RECEIVED.

RESPONSE TRACKING: Z26165 Z26173

[PRD] DATABASE RECORD: 222700 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/07/88
INITIAL DATE: 03/07/88
ITEM NUMBER: K2Z DATE LAST CHANGED: 12/04/06

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5342 - SERVICES - CHEMICAL CLEANING

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 222700
ITEM NUMBER: K2Z

SECTION: 5342 TIME LAST CHANGED: 09:05:32

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20007S 20027S
TRACKING NO. DB98 KING2001 R109-32 R2686 SCRUB06
PRIORITY: REQUIRED
RATIONALE: TERTIARY LANDING SITE BECOMES MANDATORY IF LANDING AT WSSH.

1. COMPONENT/SYS.;
A. NAME/DESCRIP: COMPONENTS
B. QUANTITY:
C. SPECIFICATION: KSC-C-123E
2. CLEANING RQMT: PRECISION CLEANING FOR WHITE SANDS SPACE HARBOR OPERATIONS.
3. SERVICE:
4. REMARKS: TURNAROUND ONLY.

POC: ROBERT MITCHELL/RC1/505 524-5774

TECH CONTACT: KSC/LOUIE GARCIA/PH-L/321 867-6196
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO REQUESTERS RESPONSIBILIT RESPONSE DATE: 09/01/88
RESPONSE:
WSTF WILL PROVIDE CLEANING AT WSTF. OPERATIONS WILL BE PER APPLICABLE WSTF SPEC. UNLESS A COPY OF THE KSC SPEC. IS RECEIVED.

RESPONSE TRACKING: Z26165 Z26173

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5350 - SERVICES - VEHICLES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 536837 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/29/97
INITIAL DATE: 03/07/97
ITEM NUMBER: K2.1D DATE LAST CHANGED: 05/31/07
SECTION: 5350 TIME LAST CHANGED: 09:56:59

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L PWR USK-068 USK-426
TEST CODE: DODALS DODELS STSALL
TRACKING NO. KING2001 L8304 L8609 L8705 SCRUB06
PRIORITY: REQUIRED
RATIONALE: REQUIRED FOR TAL LANDING PREPS

1. DESCRIPTION:
PROVIDE THE FOLLOWING VEHICLES TO GROUND OPERATIONS TEAM
AT MORON AB:

BARRIER
1 - BOBTAIL (WITH PINTLE HOOK)
1 - FORKLIFT, 6K
1 - TOW TUG, MB-2 (WITH PINTLE HOOK)

XENON
1 - 5TH WHEEL TRACTOR
2 - 40FT. MIN. LG. FLATBED TRAILERS

TECH CONTACT: T. L. O'BRIEN/PH-L/321 861-9303
MIKE KUTA/USK-426/321 861-3890
HSFS-X/321 494-494-2143

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/29/97
RESPONSE TRACKING: Z8322 Z8611 Z8718

[PRD] DATABASE RECORD: 289119 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K4X DATE LAST CHANGED: 03/22/07
SECTION: 5350 TIME LAST CHANGED: 08:28:54

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5350 - SERVICES - VEHICLES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 289119
ITEM NUMBER: K4X

TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. KING2001 R2809 R2823 SCRUB06
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING OPERATIONS AT EAFB.

1. DESCRIPTION:

ITEM	SUPPORT REQUESTED	EACH LANDING
PICKUP TRUCK, 1/2 TON WITH PINTLEHOOK AT DFRC	PROVIDE ONE 1/2 TON PICKUP TRUCK FOR SCAPE ADMIN. USE DURING REHEARSAL AND EACH DEPLOYED OPERATIONS AT DFRC.	X

TECH CONTACT: KSC/DEAN SCHAAF/PH-L/321 861-9311
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/30/89
RESPONSE TRACKING: Z2811

[PRD] DATABASE RECORD: 183679 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K5X DATE LAST CHANGED: 03/22/07
SECTION: 5350 TIME LAST CHANGED: 08:29:23

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DFRC EAFB S0026.100 S0026.200
S0026.300 STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 R2809 R2823 SCRUB06

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5350 - SERVICES - VEHICLES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 183679
ITEM NUMBER: K5X

PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING OPERATIONS AT EAFB.

1. NAME OR
   NOMENCLATURE: MAINTENANCE VEHICLE FOR ROTARY/MOBILE EQUIPMENT
   1 EACH FOR EAFB
2. CAPACITY:
3. PURPOSE:
4. % USED:
5. RA OR SA: SA
6. NUMBER
   REQD/QTR.:
7. REMARKS/
   SPEC. INST.: CONTACT: KSC/DEAN SCHAAF/PH-L/321 861-9311
   KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/30/89
RESPONSE TRACKING: Z2811

[PRD] DATABASE RECORD: 200794 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K6X DATE LAST CHANGED: 03/22/07
SECTION: 5350 TIME LAST CHANGED: 08:29:54

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DFRC EAFB S0026.100 STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 R2809 R2823 SCRUB06
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING OPERATIONS AT EAFB.

1. NAME OR

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5350 - SERVICES - VEHICLES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 200794
ITEM NUMBER: K6X

NOMENCLATURE: P70-0810 CONVOY COMM VEHICLE WITH COMMUNICATIONS EQUIPMENT
1 EACH AT EAFB
2. CAPACITY:
3. PURPOSE:
4. % USED:
5. RA OR SA: SA
6. NUMBER REQD/QTR.:
7. REMARKS/

SPEC. INST.: CONTACT: KSC/DEAN SCHAAF/PH-L/321 861-9311
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OA
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/30/89
RESPONSE TRACKING: Z2811

[PRD] DATABASE RECORD: 192213 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/17/88
INITIAL DATE: 10/17/88
ITEM NUMBER: K9KX DATE LAST CHANGED: 03/22/07
SECTION: 5350 TIME LAST CHANGED: 08:30:27

REQUESTER: KSC
SUBREQUESTER: NE-E1
TEST CODE: 26002C EAFB MSBLS STSALL

ASSOCIATED DOC: 20026S 26002
TRACKING NO. KING2001 R2718 SCRUB06
PRIORITY: REQUIRED
RATIONALE: ALTERNATE TRANSPORTATION SOURCES AVAILABLE.

1. NAME OR NOMENCLATURE: SEDAN, VAN OR STATION WAGON
2. CAPACITY:

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5350 - SERVICES - VEHICLES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 192213
ITEM NUMBER: K9KX

3. PURPOSE: TRANSPORTATION TO AND FROM RUNWAY SITE
WHEN MSBLS TESTING TEAM IS SCHEDULED TO PERFORM
INSPECTION AT DFRC.
4. % USED:
5. RA OR SA: SA
6. NUMBER
REQD/QTR.:
7. REMARKS/
SPEC. INST.: PLTS OPERATORS MAY ALSO REQUIRE
ACCESS TO ONE 4-WHEEL DRIVE VEHICLE. MOTOR POOL
ASSETS, AS AVAILABLE, ARE ACCEPTABLE.

TECH CONTACT: JOHN KIRIAZES/EN-N1/321 861-3700

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/21/96

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/17/88
RESPONSE TRACKING: Z2712

[PRD] DATABASE RECORD: 362734 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/06/89
INITIAL DATE: 09/06/89
ITEM NUMBER: K10D DATE LAST CHANGED: 05/30/07
SECTION: 5350 TIME LAST CHANGED: 10:33:21

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DODALS DODELS STSALL
TRACKING NO. DB98 KING2001 R2815 R3448 SCRUB06
PRIORITY: REQUIRED
RATIONALE: ALTERNATE TRANSPORTATION SOURCES AVAILABLE.

1. NAME OR
NOMENCLATURE: SIX 9 PSGR. SEDANS OR STATION WAGONS - DOD ALS/ELS

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5350 - SERVICES - VEHICLES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 362734
ITEM NUMBER: K10D

2. CAPACITY:
3. PURPOSE: PASSENGERS AND SUPPLIES AT DOD ALS/ELS
4. % USED:
5. RA OR SA: SA
6. NUMBER REQD/QTR.:
7. REMARKS/ SPEC. INST.:

FOUR REQUIRED. TO BE DELIVERED TO THE KSC GROUND TURNAROUND TEAM.

NOTE: DOD WILL SUPPORT TO THE EXTENT POSSIBLE. VEHICLES WILL BE PROVIDED FROM MOTOR POOL AS AVAILABLE. IF NOT AVAILABLE ON BASE, DOD PERSONNEL WILL ASSIST NASA IN OBTAINING FROM COMMERCIAL SOURCES.

TECH CONTACT: TIM O'BRIEN/PH-L/321 861-9303
MIKE KUTA/USK-426/321 861-3890

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/07/89
RESPONSE TRACKING: Z3433

[PRD] DATABASE RECORD: 14512 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/14/91
INITIAL DATE: 04/08/88
ITEM NUMBER: K12XZ DATE LAST CHANGED: 03/22/07
SECTION: 5350 TIME LAST CHANGED: 08:38:33

REQUESTER: KSC
SUBREQUESTER: KSC/NE-M
TEST CODE: EAFB STSALL WSSH

ASSOCIATED DOC: 20026S 20027S
TRACKING NO. DB98 KING2001 L3907 R26109 SCRUB06
PRIORITY: REQUIRED

CONTINUED

[PRD] DATABASE RECORD: 14512
ITEM NUMBER: K12XZ

RATIONALE: ALTERNATE TRANSPORTATION SOURCES AVAILABLE.

1. DESCRIPTION: VAN

PROVIDE 1 EACH EIGHT PASSENGER VAN IN SUPPORT OF 20026S (EAFB) AND 20027S (WSSH) FOR ALL SHUTTLE FLIGHTS. VAN IS REQUIRED BY KSC/NE-M/NASA ENGINEERING DEBRIS TEAM. VAN WILL BE REQUIRED FOR LANDING -1 DAY TO LANDING + 4 DAYS.

VAN CAN BE DELIVERED TO NASA SHUTTLE RECOVERY CONVOY LOCATION. THIS REQUIREMENT IS VALID FOR PLANNED END OF MISSION (EOM) ONLY.

TECH CONTACT: KSC/DEAN SCHAAF/PH-L/321 861-9311
KSC/LOUIE GARCIA/PH-L/321 867-6196
ROBERT MITCHELL/RC1/505 524-5774

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/25/91
RESPONSE TRACKING: Z26173 Z3969

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/25/91
RESPONSE TRACKING: Z26173 Z3969

[PRD] DATABASE RECORD: 16407 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 10/05/88
INITIAL DATE: 10/05/88
ITEM NUMBER: K13E DATE LAST CHANGED: 06/06/07
SECTION: 5350 TIME LAST CHANGED: 09:19:54

REQUESTER: KSC
SUBREQUESTER: IT-D2-C VALE VALO92001
TEST CODE: S0007.100 STSALL

ASSOCIATED DOC: 20007S

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5350 - SERVICES - VEHICLES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 16407
ITEM NUMBER: K13E

TRACKING NO. KING2001 MK98 R2710
PRIORITY: REQUIRED
RATIONALE: SMALL FCA VAN AS BACKUP.

1. DESCRIPTION: FREQUENCY CONTROL & ANALYSIS VANS(L-5 HOURS)

PROVIDE 1 FREQUENCY CONTROL & ANALYSIS VAN FOR LAUNCH (S0007)
ONLY AT EACH OF THE FOLLOWING LOCATIONS:

A. UNIVERSAL CAMERA SITE # 2.

B. TURN BASIN RAMP (N.E. CORNER) LC-39 PRESS SITE.

NOTE: SEE KPRD SECT 5320, ITEM K27K, DBR 016406 FOR ELECTRICAL POWER/CONNECTION REQUIREMENTS.

TECH CONTACT: KSC/721E-M123/BOB ARMSTRONG/321 853-3193

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: BART KLEINFELDT/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/25/88
RESPONSE TRACKING: Z2718

[PRD] DATABASE RECORD: 521785 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/20/05
INITIAL DATE: 11/24/92
ITEM NUMBER: T15K DATE LAST CHANGED: 11/20/06
SECTION: 5350 TIME LAST CHANGED: 13:34:06

REQUESTER: JSC
SUBREQUESTER: JSC/SD2
TEST CODE: KSC STSALL

ASSOCIATED DOC: 20028S
TRACKING NO. KING2001 L04-10-4 L05-1-2 L5304 L5810
L812-1 R0501-4 SCRUB06
PRIORITY: MANDATORY
RATIONALE: ASTRONAUT TRANSPORT

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5350 - SERVICES - VEHICLES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 521785
ITEM NUMBER: T15K

1. DESCRIPTION: CREW TRANSPORT VEHICLE (CTV)- KSC

PROVIDE CREW TRANSPORT VEHICLE (CTV) AND OPERATORS TO:

1. FACILITATE EARLY POST LANDING ACQUISITION OF FLIGHT CREW MEDICAL DATA.

2. TRANSPORT FLIGHT CREW FROM SLF TO O&C BLDG.

NOTE 1: MEDICAL EQUIPMENT TO BE PROVIDED BY KSC IAW, THE MEDICAL OPERATIONS REQUIREMENTS DOCUMENT FOR SHUTTLE MISSIONS, JSC-13956, AND THE KSC MOSIP.
NOTE 2: SUPPORT READINESS WILL BE REQUIRED FROM LAUNCH + 1.5 HOURS (BEGINNING OF 2ND ORBIT) UNTIL EOM.

NOTE 3: SEATING CONFIGURATION/FINAL DESTINATION OF THE CTV WILL BE SPECIFIED FOR EACH LANDING BY JSC/SD VIA AVO/FAX TO KSC/PH-J.

NOTE 4: GURNEYS WILL BE PROVIDED BY BIO-3.

TECH CONTACTS: JSC/SD2/MICHAEL CHANDLER/281 483-2956
JSC/SF4/DAVID BAUMANN/281 483-5931
KSC/NE-M9/DOUG MOORE/321 861-7658
KSC/USK-131/PAUL KRUSE/321 861-6856
KSC/DEAN SCHAAF/PH-L/321-861-9311

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: BIO-3 HEE NE-M9
USK-068

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/20/05
RESPONSE TRACKING: Z5303 Z5827

[PRD] DATABASE RECORD: 521786 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/20/05
INITIAL DATE: 11/24/92
ITEM NUMBER: T16KX DATE LAST CHANGED: 03/22/07
SECTION: 5350 TIME LAST CHANGED: 08:39:55

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5350 - SERVICES - VEHICLES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 521786
ITEM NUMBER: T16KX

REQUESTER:	JSC				
SUBREQUESTER:	JSC/SD2	JSC/SF4			
TEST CODE:	EAFB	S0026.100	S0026.200	S0026.300	
	STSALL				
ASSOCIATED DOC:	20026S				
TRACKING NO.	KING2001	L01-9-1	L02-1-1	L04-10-4	L05-1-2
	L210-7	L5310	L5330	L5810	L812-1
	R0501-4	R108-3	SCRUB06		
PRIORITY:	MANDATORY				
RATIONALE:	ASTRONAUT TRANSPORT				

1. DESCRIPTION: CREW TRANSPORT VEHICLE (CTV)- DFRC

PROVIDE CREW TRANSPORT VEHICLE (CTV) AND OPERATORS TO:

1. FACILITATE EARLY POST LANDING ACQUISITION OF FLIGHT CREW MEDICAL DATA.

2. TRANSPORT FLIGHT CREW FROM RUNWAY/LAKE BED TO POSTFLIGHT SCIENCE SUPPORT FACILITY (PSSF).

NOTE 1: MEDICAL EQUIPMENT TO BE PROVIDED BY DFRC IAW, THE MEDICAL OPERATIONS REQUIREMENTS DOCUMENT FOR SHUTTLE MISSIONS, JSC-13956, AND THE DFRC MOSIP.

NOTE 2: SUPPORT READINESS WILL BE REQUIRED FROM LAUNCH + 1.5 HOURS (BEGINNING OF 2ND ORBIT) UNTIL EOM.

NOTE 3: KSC TO PROVIDE THE CTV OPERATORS.

NOTE 4: SEATING CONFIGURATION/FINAL DESTINATION OF THE CTV WILL BE SPECIFIED FOR EACH LANDING BY JSC/SF4 AVO/FAX TO KSC/PH-J.

NOTE 5: GURNEYS WILL BE PROVIDED BY KSC/SUPPORT LIFE SCIENCES CONTRACTOR

TECH CONTACTS: JSC/SD2/MICHAEL CHANDLER/281 483-2956
SF4/DAVID BAUMANN/281 483-5931

CONTINUED

[PRD] DATABASE RECORD: 521786
ITEM NUMBER: T16KX

DFRC/GEORGE GRIMSHAW/661 276-3425
KSC/NE-M9/DOUG MOORE/321 861-7658

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: NE-M9 PH-L USK-426

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 01/20/05
RESPONSE: INFO:
FOR THE PERIOD BETWEEN LAUNCH AND EOM-1 DAY, KSC WILL PROVIDE
CTV OPERATIONS WITH 24 HOUR NOTIFICATION OF LANDING AT EAFB.
FOR PLANNED EOM DAY, CTV OPERATORS WILL BE AVAILABLE.

RESPONSE TRACKING: Z0504-1 Z5311 Z5827

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/25/05
RESPONSE TRACKING: Z0504-1 Z108-11 Z5311 Z5827

[PRD] DATABASE RECORD: 522439 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/05/93
INITIAL DATE: 02/19/93
ITEM NUMBER: K17D DATE LAST CHANGED: 05/31/07
SECTION: 5350 TIME LAST CHANGED: 09:20:35

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DODALS STSALL ZARAGOZA

ASSOCIATED DOC: 20057S
TRACKING NO. DB98 KING2001 L5527 L5708 SCRUB06
PRIORITY: REQUIRED
RATIONALE: REQUIRED FOR LANDING SUPPORT AT ZARAGOZA.

1. DESCRIPTION: VEHICLES - ZARAGOZA

CONTINUED

[PRD] DATABASE RECORD: 522439
ITEM NUMBER: K17D

A. PROVIDE THE FOLLOWING VEHICLES FOR THE NASA TEAM DURING THE PERIOD OF TIME THEY ARE ON SITE FOR MISSION SUPPORT:

QUANTITY	DESCRIPTION	FUNCTION
2	STEP VANS	BARRIER, MLS
1	BOB TAIL TOW VEHICLE	BARRIER
2	4X2 PICK-UPS	VLA
1	9 PASSENGER VAN	SAFETY/OPS
1	TRACTOR	XENON
2	40 FT. FLATBED TRAILERS	XENON
1	4X4 6 PASSENGER PICK-UP	SECURITY
1	MME-PD STAIR PLATFORM	ORBITER
1	MD-2 TOW TUG	ORBITER

B. FUEL AND MAINTENANCE WILL BE REQUIRED FOR DOD PROVIDED VEHICLES FROM ON BASE RESOURCES.

COORD: KSC/MIKE KUTA/USK-426/321 861-3890
KSC/TOM FRIERS/PH-L/321 861-9348
HSFS-0/321-494-5116

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/05/93
RESPONSE TRACKING: Z5566 Z5708

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5350 - SERVICES - VEHICLES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 525588 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/24/94
INITIAL DATE: 02/24/94
ITEM NUMBER: K18X DATE LAST CHANGED: 03/22/07
SECTION: 5350 TIME LAST CHANGED: 08:40:22

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L KSC/USK-426 USK-382
TEST CODE: DFRC EAFB S0026.100 S0026.200
S0026.300 STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 L5906 SCRUB06
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING OPERATIONS AT EAFB.

1. DESCRIPTION: VANS FOR FLIGHT CREW EQUIPMENT DESTOW

PROVIDE ONE ENCLOSED AIR CONDITIONED STEP VAN MINIMUM 14' INTERIOR LENGTH OF CARGO BAY. EQUIPPED WITH FULL ACCESS REAR DOORS. REQUIRED FOR FLIGHT CREW EQUIPMENT RUNWAY DESTOW AND TRANSPORTATION TO AREA "A".

PRIME REQUESTER: KSC/DEAN SCHAAF/PH-L/321 861-9311
KSC/MIKE KUTA/USK-426/321 861-3890
POINT OF CONTACT: KSC/MIKE GENESALE/UB-C4/321 867-5867

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/10/94
RESPONSE TRACKING: Z5904

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5351 - SERVICES - GROUND HANDLING EQUIPMENT

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 283208 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/17/94
INITIAL DATE: 05/04/90
ITEM NUMBER: K3D DATE LAST CHANGED: 05/30/07
SECTION: 5351 TIME LAST CHANGED: 10:33:16

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DODALS DODELS STSALL
TRACKING NO. DB98 KING2001 L3519 R109-33 R2815
R6548 SCRUB06 SHAW94
PRIORITY: REQUIRED
RATIONALE: ALTERNATE TRANSPORTATION SOURCES AVAILABLE.

1. NAME OR NOMENCLATURE: PICK-UP TRUCKS
2. CAPACITY: 1/2 TON TO 3/4 TON
3. PURPOSE: TRANSPORT SUPPLIES AT DOD ALS/ELS
4. % USED: 100
5. RA OR SA: SA
6. NUMBER REQD/QTR.:
7. REMARKS/ SPEC. INST.: FOUR REQUIRED TO BE DELIVERED TO THE KSC GROUND TURNAROUND TEAM.

TECH CONTACT: KSC/TOM FRIERS/PH-L/321 861-9348
KSC/MIKE KUTA/USK-426/321 861-3890

NOTE: DOD WILL PROVIDE TO THE EXTENT AVAILABLE FRO M EXISTING BASE TRANSPORTATION/MOTOR POOL RESOURCES. NASA SHOULD B E PREPARED TO REMEDY SHORTFALLS WITH COMMERCIAL LEASING.

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/17/94
RESPONSE TRACKING: Z2806 Z3544 Z3584 Z3722 Z3805
Z4018 Z4118 Z6522 Z6539

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5351 - SERVICES - GROUND HANDLING EQUIPMENT

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 284170 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K5D DATE LAST CHANGED: 06/06/07
SECTION: 5351 TIME LAST CHANGED: 09:20:45

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DODALS DODELS STSALL
TRACKING NO. DB98 KING2001 R109-33 R2815
PRIORITY: REQUIRED
RATIONALE: ALTERNATE TRANSPORTATION SOURCES AVAILABLE.

1. NAME OR NOMENCLATURE: STAKEBODY TRUCKS W/LIFT GATE - DOD ALS/ELS
2. CAPACITY: 1-1/2 TO 2-1/2 TON
3. PURPOSE: TRANSPORT GSE AND SUPPLIES AT DOD ALS/ELS
4. % USED: 100
5. RA OR SA: SA
6. NUMBER REQD/QTR.:
7. REMARKS/ SPEC. INST.: TWO REQUIRED TO BE DELIVERED TO THE KSC GROUND TURNAROUND TEAM.

TECH CONTACT: DEAN SCHAAF/PH-M1/321 861-9311
KEVIN OTOOLE/USK-426/321 861-3112

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 05/10/94
RESPONSE:
DOD WILL PROVIDE TO THE EXTENT AVAILABLE FROM EXISTING BASE TRANSPORTATION/MOTOR POOL RESOURCES. NASA SHOULD BE PREPARED TO REMEDY SHORTFALLS WITH COMMERCIAL LEASING.

RESPONSE TRACKING: Z2806 Z6522

[PRD] DATABASE RECORD: 284542 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/26/88
INITIAL DATE: 08/26/88
ITEM NUMBER: K6X DATE LAST CHANGED: 03/22/07

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5351 - SERVICES - GROUND HANDLING EQUIPMENT

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 284542
ITEM NUMBER: K6X

SECTION: 5351 TIME LAST CHANGED: 08:40:59

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 L2646 R109-33 R2809
SCRUB06
PRIORITY: REQUIRED
RATIONALE: REQUIRED FOR LANDING OPERATIONS AT DFRC. ALTERNATE TRANSPORTATION AVAILABLE.

1. NAME OR NOMENCLATURE: ENCLOSED BODY TRUCK OR VAN - DFRC
2. CAPACITY:
3. PURPOSE: TRANSPORT GSE AND SUPPLIES AT DFRC
4. % USED:
5. RA OR SA: SA
6. NUMBER REQD/QTR.:
7. REMARKS/ SPEC. INST.: GROUND OPERATIONS TEAM CAN UTILIZE FROM MOTOR POOL AS AVAILABLE.

TECH CONTACT: KSC/DEAN SCHAAF/PH-L/321 861-9311
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/26/88
RESPONSE TRACKING: Z26156

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5351 - SERVICES - GROUND HANDLING EQUIPMENT

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 284765 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K7X DATE LAST CHANGED: 03/22/07
SECTION: 5351 TIME LAST CHANGED: 08:41:30

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB S5022.200 STSALL

ASSOCIATED DOC: 20026S 25022S
TRACKING NO. DB98 KING2001 L4314 R109-33 R2809
R2823 SCRUB06
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING OPERATIONS AT DFRC.

1. NAME OR NOMENCLATURE: TOW VEHICLE T-300 OR EQUIVALENT-DFRC
2. CAPACITY: 180,000 LBS.
3. PURPOSE:
4. % USED:
5. RA OR SA: SA
6. NUMBER REQD/QTR.: 2
7. REMARKS/ SPEC. INST.: AS REQUIRED
1 ASSIGNED AS REQUIRED.

TECH CONTACT: KSC/DEAN SCHAAF/PH-L/321 861-9311
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/08/91
RESPONSE TRACKING: Z2811 Z4340

[PRD] DATABASE RECORD: 284988 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K8D DATE LAST CHANGED: 05/31/07
SECTION: 5351 TIME LAST CHANGED: 07:11:56

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5351 - SERVICES - GROUND HANDLING EQUIPMENT

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 284988
ITEM NUMBER: K8D

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DODALS DODELS STSALL
TRACKING NO. DB98 KING2001 R109-33 R2815 SCRUB06
PRIORITY: REQUIRED
RATIONALE: ALTERNATE TRANSPORTATION SOURCES AVAILABLE.

1. NAME OR NOMENCLATURE: TOW VEHICLE T-300 OR EQUIVALENT-DOD ALS/ELS
2. CAPACITY: 180,000 LBS
3. PURPOSE: TOW ORBITER AT DOD ALS/ELS
4. % USED:
5. RA OR SA: SA
6. NUMBER REQD/QTR.:
7. REMARKS/ SPEC. INST.: ONE VEHICLE IS REQUIRED TO BE ON CALL TO THE GROUND TURNAROUND TEAM FROM THE ARRIVAL OF THE TEAM TO SCA/ORBITER DEPARTURE.

TECH CONTACT: KSC/TOM FRIERS/PH-L/321 861-9348
KSC/MIKE KUTA/USK-426/321 861-3890

WILCO FOR DOD ALS'S. THE DOD WILL PROVIDE AT DOD E LS'S
IF AVAILABLE. HSFS WILL STATUS TUGS BEFORE THE NAS A TOW TEAM
DEPARTS FOR DOD ELS.

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5351 - SERVICES - GROUND HANDLING EQUIPMENT

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 284988
ITEM NUMBER: K8D

RESPONDER: ED LEVKA 321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/18/89
RESPONSE TRACKING: Z2806

[PRD] DATABASE RECORD: 285226 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K9X DATE LAST CHANGED: 03/22/07
SECTION: 5351 TIME LAST CHANGED: 08:41:59

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 R109-33 R2809 R2823
SCRUB06
PRIORITY: REQUIRED
RATIONALE: ALTERNATE TRANSPORTATION SOURCES AVAILABLE.

1. NAME OR NOMENCLATURE: FORKLIFT-DFRC
2. CAPACITY: 2000 LBS
3. PURPOSE: WAREHOUSE AT DFRC
4. % USED:
5. RA OR SA:
6. NUMBER REQD/QTR.:
7. REMARKS/ SPEC. INST.: ONE ASSIGNED TO GROUND OPERATIONS TEAM

TECH CONTACT: KSC/DEAN SCHAAF/PH-L/321 861-9311
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/30/89

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5351 - SERVICES - GROUND HANDLING EQUIPMENT

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 285226
ITEM NUMBER: K9X

RESPONSE TRACKING: Z2811

[PRD] DATABASE RECORD: 285463 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K10X DATE LAST CHANGED: 03/22/07
SECTION: 5351 TIME LAST CHANGED: 08:43:27

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 R109-33 R2809 R2823
SCRUB06
PRIORITY: REQUIRED
RATIONALE: ALTERNATE TRANSPORTATION SOURCES AVAILABLE.

1. NAME OR NOMENCLATURE: FORKLIFT-DFRC
2. CAPACITY: 6000 LBS.
3. PURPOSE: ORBITER GSE AT DFRC.
4. % USED:
5. RA OR SA: SA
6. NUMBER REQD/QTR.:
7. REMARKS/ SPEC. INST.: ONE ASSIGNED TO GROUND OPERATIONS TEAM

TECH CONTACT: KSC/DEAN SCHAAF/PH-L/321 861-9311
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/30/89
RESPONSE TRACKING: Z2811

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5351 - SERVICES - GROUND HANDLING EQUIPMENT

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 285651 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K11D DATE LAST CHANGED: 05/30/07
SECTION: 5351 TIME LAST CHANGED: 10:33:17

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DODALS DODELS STSALL
TRACKING NO. DB98 KING2001 R109-33 R2815 SCRUB06
PRIORITY: REQUIRED
RATIONALE: ALTERNATE TRANSPORTATION SOURCES AVAILABLE.

1. NAME OR NOMENCLATURE: FORKLIFT-DOD ALS/ELS
2. CAPACITY: 6000 LBS.
3. PURPOSE: GSE AND SUPPLIES AT DOD ALS/ELS
4. % USED:
5. RA OR SA: SA
6. NUMBER REQD/QTR.:
7. REMARKS/ SPEC. INST.: ON CALL FOR THE GROUND TURNAROUND TEAM AFTER ORBITER LANDING.

TECH CONTACT: KSC/TIM O'BRIEN/PH-L/321 861-9303
KSC/MIKE KUTA/USK-426/321 861-3890

NOTE: DOD WILL PROVIDE TO THE EXTENT AVAILABLE FRO M EXISTING BASE TRANSPORTATION/MOTOR POOL RESOURCES. NASA SHOULD B E PREPARED TO REMEDY SHORTFALLS WITH COMMERCIAL LEASING.

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/10/94
RESPONSE TRACKING: Z2806 Z6522

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5351 - SERVICES - GROUND HANDLING EQUIPMENT

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 286280 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/16/94
INITIAL DATE: 08/26/88
ITEM NUMBER: K13X DATE LAST CHANGED: 03/22/07
SECTION: 5351 TIME LAST CHANGED: 08:44:06

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S 25022S
TRACKING NO. DB98 KING2001 L2646 L4314 R109-33
R2809 R6548 SCRUB06 SHAW94
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR TAILCONE INSTALLATION AT DFRC.

1. NAME OR NOMENCLATURE: FORKLIFTS-DFRC (2)
2. CAPACITY: 18,000 LBS. MIN
3. PURPOSE: GSE INCLUDING PLTS, SUPPLIES, AND TAILCONE AT DFRC

4. % USED:
5. RA OR SA: SA
6. NUMBER REQD/QTR.:
7. REMARKS/ SPEC. INST.: GROUND OPERATIONS TEAM CAN
UTILIZE MOTOR POOL AS REQUIRED.

TECH CONTACT: KSC/DEAN SCHAAF/PH-L/321 861-9311
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/19/94
RESPONSE TRACKING: Z26156 Z4340 Z6539

[PRD] DATABASE RECORD: 515164 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/10/91
INITIAL DATE: 06/10/91
ITEM NUMBER: K13.1X DATE LAST CHANGED: 03/22/07

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5351 - SERVICES - GROUND HANDLING EQUIPMENT

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 515164
ITEM NUMBER: K13.1X

SECTION: 5351 TIME LAST CHANGED: 08:44:33

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DFRC EAFB S5022.200 STSALL

ASSOCIATED DOC: 25022S
TRACKING NO. DB98 KING2001 L4314 R109-33 SCRUB06
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING OPERATIONS AT DFRC.
1. DESCRIPTION: FORKLIFT 5K - DFRC

PROVIDE ONE 5K MIN. FORKLIFT FOR SLING BUILDUP AND GENERAL HANDLING. REQUIRED FOR POST LANDING DESERVICING/MATE TO SCA.

TECH CONTACT: KSC/DEAN SCHAAF/PH-L/321 861-9311
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/08/91
RESPONSE TRACKING: Z4340

[PRD] DATABASE RECORD: 515163 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/10/91
INITIAL DATE: 06/10/91
ITEM NUMBER: K13.2X DATE LAST CHANGED: 03/22/07
SECTION: 5351 TIME LAST CHANGED: 08:44:59

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DFRC EAFB S5022.200 STSALL

ASSOCIATED DOC: 25022S
TRACKING NO. DB98 KING2001 L4314 R109-33 SCRUB06
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR FERRY FLIGHT OPERATIONS AT DFRC.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5351 - SERVICES - GROUND HANDLING EQUIPMENT

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 515163
ITEM NUMBER: K13.2X

1. DESCRIPTION: MOBILE CRANE - DFRC

PROVIDE ONE MOBILE CRANE 20K WITH MIN. 30 FT. REACH FOR POST LANDING DESERVICING/MATE TO SCA.

TECH CONTACT: KSC/DEAN SCHAAF/PH-L/321 861-9311
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/08/91
RESPONSE TRACKING: Z4340

[PRD] DATABASE RECORD: 287615 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K19D DATE LAST CHANGED: 05/30/07
SECTION: 5351 TIME LAST CHANGED: 10:33:17

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DODALS DODELS STSALL
TRACKING NO. DB98 KING2001 R109-33 R2815 SCRUB06
PRIORITY: REQUIRED
RATIONALE: ALTERNATE SOURCES AVAILABLE

1. NAME OR NOMENCLATURE: HI-RANGERS-DOD ALS/ELS
2. CAPACITY: 90 FT.
3. PURPOSE: MATE OPS AT DOD ALS/ELS
4. % USED:
5. RA OR SA: SA
6. NUMBER REQD/QTR.:
7. REMARKS/ SPEC. INST.: PROVIDE FOUR HI-RANGERS AS REQUIRED TO THE GROUND TURNAROUND TEAM AFTER LANDING AT THE DOD ALS/ELS.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5351 - SERVICES - GROUND HANDLING EQUIPMENT

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 287615
ITEM NUMBER: K19D

TECH CONTACT: KSC/TIM O'BRIEN/PH-L/321 861-9303
KSC/MIKE KUTA/USK-426/321 861-3890

NOTE: DOD WILL PROVIDE TO THE EXTENT AVAILABLE FOR EXISTING BASE
TRANSPORTATION/MOTOR POOL RESOURCES. NASA SH OULD BE PREPARED
TO REMEDY SHORTFALLS WITH COMMERCIAL LEASING.

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/10/94
RESPONSE TRACKING: Z2806 Z6522

[PRD] DATABASE RECORD: 289131 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/05/88
INITIAL DATE: 05/05/88
ITEM NUMBER: K25X DATE LAST CHANGED: 03/22/07
SECTION: 5351 TIME LAST CHANGED: 08:45:28

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 R109-33 R26163 SCRUB06
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING OPERATIONS AT DFRC.

1. NAME OR NOMENCLATURE: FAN TRUCK - DFRC
2. CAPACITY: GVWR 9500 LB MIN
3. PURPOSE: TO CARRY THE P70-0814 MOBILE FAN UNIT AT DFRC.
4. % USED:
5. RA OR SA: SA
6. NUMBER REQD/QTR.:
7. REMARKS/

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5351 - SERVICES - GROUND HANDLING EQUIPMENT

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 289131
ITEM NUMBER: K25X

SPEC. INST.: TRUCK MUST BE AVAILABLE FOR EACH REAL OR SIMULATED ORBITER CONVOY OR DESERVICE OPERATION.

TECH CONTACT: KSC/DEAN SCHAAF/PH-L/321 861-9311
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/05/88

[PRD] DATABASE RECORD: 289311 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/16/88
INITIAL DATE: 06/16/88
ITEM NUMBER: K26X DATE LAST CHANGED: 03/22/07
SECTION: 5351 TIME LAST CHANGED: 08:45:57

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB S0027.001 S5022.200 STSALL
WSSH

ASSOCIATED DOC: 20026S 20027S 25022S
TRACKING NO. DB98 KING2001 L4314 R109-33 R26200
R2686 SCRUB06
PRIORITY: REQUIRED
RATIONALE: TERTIARY LANDING SITE BECOMES MANDATORY FOR LANDING AT WSSH.

1. NAME OR NOMENCLATURE: TOW VEHICLE T-300-WSSH (P72-0804) (S/N T-300-1440)
2. CAPACITY: 300 TON
3. PURPOSE: TOW MATED SCA/ORBITER AT WSSH
4. % USED:
5. RA OR SA: SA
6. NUMBER REQD/QTR.:
7. REMARKS/ SPEC. INST.: IN EVENT OF WSSH LANDING PROVIDE TO WSTF FOR USE

CONTINUED

[PRD] DATABASE RECORD: 289311
ITEM NUMBER: K26X

AT WSSH. TURNAROUND ONLY.

TECH CONTACT: KSC/LOUIE GARCIA/PH-L/321 867-6196
KSC/MIKE KUTA/USK-426/321 861-3890
WSSH/ROBERT MITCHELL/RC1/505-524-577

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/08/91
RESPONSE TRACKING: Z2695 Z4340

[PRD] DATABASE RECORD: 289857 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/16/94
INITIAL DATE: 05/18/89
ITEM NUMBER: K28X DATE LAST CHANGED: 03/22/07
SECTION: 5351 TIME LAST CHANGED: 08:46:35

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB S0026.100 S0026.200 S0026.300
STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 R109-33 R2809 R2823
R6548 SCRUB06 SHAW94
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING OPERATIONS AT DFRC.

1. DESCRIPTION: TRACTORS, TANDEM AXLE (W/DRIVERS) AT DFRC

PROVIDE TWO TANDEM AXLE TRACTORS FOR POSITIONING
OF SCAPE TRAILER AND GN2/GHe TUBEBANKS
AND CRYOGENIC TANKERS DURING REHEARSALS AND
ACTUAL ORBITER LANDING/DESERVICING.

TECH CONTACT: KSC/DEAN SCHAAF/PH-L/321 861-9311
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5351 - SERVICES - GROUND HANDLING EQUIPMENT

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 289857
ITEM NUMBER: K28X

SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/19/94
RESPONSE TRACKING: Z2811 Z6539

[PRD] DATABASE RECORD: 290045 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K29EKX DATE LAST CHANGED: 03/22/07
SECTION: 5351 TIME LAST CHANGED: 08:47:06

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB S0026.500 STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 R109-33 R2809 R2829
SCRUB06
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING OPERATIONS AT DFRC.

1. DESCRIPTION: TRUCK, FLATBED AT DFRC

PROVIDE PICKUP AND DELIVERY OF GASES IN
K-BOTTLES (BAIR, GN2, GHE, GH2) TO SPC AT DFRC.

TECH CONTACT: KSC/DEAN SCHAAF/PH-L/321 861-9311
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/05/89
RESPONSE TRACKING: Z2822

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: PH-L USK-426

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/18/89

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5351 - SERVICES - GROUND HANDLING EQUIPMENT

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 290045
ITEM NUMBER: K29EKX

RESPONSE TRACKING: Z2822

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/30/89
RESPONSE TRACKING: Z2822

[PRD] DATABASE RECORD: 290218 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K30X DATE LAST CHANGED: 03/22/07
SECTION: 5351 TIME LAST CHANGED: 08:47:44

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 R109-33 R2809 R2823
SCRUB06
PRIORITY: REQUIRED
RATIONALE: ALTERNATE RESOUCES AVAILABLE.

1. DESCRIPTION: FORKLIFT (4000 LB CAPACITY)-DFRC

PROVIDE FORKLIFT AT MDD AREA FOR ON/OFF LOADING
K-BOTTLE RACKS.

TECH CONTACT: KSC/DEAN SCHAAF/PH-L/321 861-9311
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/30/89
RESPONSE TRACKING: Z2811

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5351 - SERVICES - GROUND HANDLING EQUIPMENT

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 290218
ITEM NUMBER: K30X

[PRD] DATABASE RECORD: 290434 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/07/88
INITIAL DATE: 03/07/88
ITEM NUMBER: K31Z DATE LAST CHANGED: 12/04/06
SECTION: 5351 TIME LAST CHANGED: 09:42:12

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 R109-33 R2686 SCRUB06
PRIORITY: REQUIRED
RATIONALE: TERTIARY LANDING SITE BECOMES MANDATORY FOR LANDING AT WSSH.

1. DESCRIPTION: PICKUP TRUCK, 1/2 TON W/PINTLE-HOOK -WSSH

PROVIDE ONE 1/2 TON PICKUP TRUCK FOR SCAPE ADMIN. USE DURING EACH DEPLOYED OPERATION AT WSSH. TURNAROUND ONLY.

TECH CONTACT: KSC/LOUIE GARCAIA/PH-L/321 867-6196
KSC/MIKE KUTA/USK-426/321 861-3890
WSSH/ROBERT MITCHELL/RC1/505-524-5774

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/01/88
RESPONSE TRACKING: Z26173

[PRD] DATABASE RECORD: 290595 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K32Z DATE LAST CHANGED: 12/04/06
SECTION: 5351 TIME LAST CHANGED: 09:43:45

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL WSSH

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5351 - SERVICES - GROUND HANDLING EQUIPMENT

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 290595
ITEM NUMBER: K32Z

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 R109-33 R2832 SCRUB06
PRIORITY: REQUIRED
RATIONALE: TERTIARY LANDING SITE BECOMES MANDATORY FOR LANDING AT WSSH.

1. DESCRIPTION: TRUCK, FLATBED (W/DRIVER)-WSSH

PROVIDE PICKUP AND DELIVERY OF GASES IN K-BOTTLES (BAIR, GN2) AT WSSH.

CONTACT: KSC/LOUIE GARCIA/PH-L/321 867-6196
KSC/MIKE KUTA/USK-426/321 861-3890
WSSH/ROBERT MITCHELL/RC1/505-524-5774

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/02/89
RESPONSE TRACKING: Z2825

[PRD] DATABASE RECORD: 290801 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/07/88
INITIAL DATE: 03/07/88
ITEM NUMBER: K33Z DATE LAST CHANGED: 12/04/06
SECTION: 5351 TIME LAST CHANGED: 09:45:33

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 R109-33
PRIORITY: REQUIRED
RATIONALE: TERTIARY LANDING SITE BECOMES MANDATORY FOR LANDING AT WSSH.
1. DESCRIPTION: FORKLIFT W/DRIVER (4000 LBS CAPACITY)-WSSH

PROVIDE FORKLIFT AT WSSH OPERATIONS AREA FOR ON/OFF LOADING K-BOTTLE RACKS.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5351 - SERVICES - GROUND HANDLING EQUIPMENT

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 290801
ITEM NUMBER: K33Z

TECH CONTACT: KSC/LOUIE GARCIA/PH-L/321 867-6196
KSC/MIKE KUTA/USK-426/321 861-3890
WSSH/ROBERT MITCHELL/RC1/505-524-5774

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/01/88
RESPONSE TRACKING: Z26173

[PRD] DATABASE RECORD: 291093 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/20/98
INITIAL DATE: 07/13/90
ITEM NUMBER: K34E DATE LAST CHANGED: 02/07/07
SECTION: 5351 TIME LAST CHANGED: 08:18:23

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-705
TEST CODE: CCAFS STSALL

ASSOCIATED DOC: 25407B
TRACKING NO. DB98 KING2001 L3826 L4515 R109-33
R2821 R9104 SCRUB06
PRIORITY: REQUIRED
RATIONALE: REQUIRED TO SUPPORT SRB REFURBISHMENT OPERATIONS AT HANGAR AF.

1. NAME OR NOMENCLATURE: MOBILE CRANE/S - CCAFS
2. CAPACITY: 30 TON 60 FT BOOM (MINIMUM)
3. PURPOSE: SUPPORT LOADING/UNLOADING PARACHUTE REELS, FRUSTUMS AND WEIGHTS FOR DECK PROOFLOAD GSE TESTS ON RETRIEVAL VESSELS. 120 TON CRANE REQUIRED FOR DECK EQUIPMENT REMOVAL.

4. % USED:
5. RA OR SA:
6. NUMBER REQD/QTR.:

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5351 - SERVICES - GROUND HANDLING EQUIPMENT

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 291093
ITEM NUMBER: K34E

7. REMARKS/
SPEC. INST.: ONE OR TWO REQUIRED TECH CONTACT WILL DEFINE IN REALTIME. REQUIRED AT HANGAR AF WHARF SITE, CCAFS. REQUIRED TO SUPPORT SRB RETRIEVAL ACTIVITIES.

TECH CONTACT: KSC/USK-705/JOHN MULLEN/321 853-3536

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/20/98
RESPONSE TRACKING: Z2821 Z3837 Z4532 Z9104

[PRD] DATABASE RECORD: 291645 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/26/89
INITIAL DATE: 05/26/89
ITEM NUMBER: K36E DATE LAST CHANGED: 12/04/06
SECTION: 5351 TIME LAST CHANGED: 09:48:21

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USBI PC-3
TEST CODE: CCAFS STSALL
TRACKING NO. DB98 KING2001 R109-33 R2821 SCRUB06
PRIORITY: REQUIRED
RATIONALE: REQUIRED TO SUPPORT SRB REFURBISHMENT OPERATIONS AT CCAFS.

1. NAME OR NOMENCLATURE: TOW VEHICLE - CCAFS
2. CAPACITY: 10 TON
3. PURPOSE: SRB FRUSTUM/FWD SKIRT/AFT SKIRT HANDLING
4. % USED:
5. RA OR SA:
6. NUMBER REQD/QTR.:
7. REMARKS/
SPEC. INST.: MOVE FROM HANGAR AF TO HANGAR N EACH FLIGHT.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5351 - SERVICES - GROUND HANDLING EQUIPMENT

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 291645
ITEM NUMBER: K36E

TECH CONTACT: FREMONT BASSETT/USK-860
321-867-9935

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/05/89
RESPONSE TRACKING: Z2821

[PRD] DATABASE RECORD: 292050 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K38D DATE LAST CHANGED: 05/31/07
SECTION: 5351 TIME LAST CHANGED: 07:15:56

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DODALS DODELS STSALL
TRACKING NO. DB98 KING2001 R109-33 R2815 SCRUB06
PRIORITY: REQUIRED
RATIONALE: ALTERNATE SOURCES AVAILABLE.

1. NAME OR NOMENCLATURE: LOW-BOY FLATBED WITH TOW TRACTOR AT DOD ALS/ELS.
2. CAPACITY: 40 FT.
3. PURPOSE: TRANSPORT VARIOUS MATERIAL/EQUIPMENT DURING GROUND TURNAROUND AT DOD ALS/ELS.
4. % USED:
5. RA OR SA:
6. NUMBER REQD/QTR.:
7. REMARKS/ NOTE: DOD WILL PROVIDE TO THE EXTENT AVAILABLE FRO M EXISTING BASE TRANSPORTATION/MOTOR POOL RESOURCES. NASA SHO ULD BE PREPARED TO REMEDY SHORTFALLS WITH COMMERCIAL LEASI NG.

SPEC. INST.: TECH CONTACT: KSC/TIM O'BRIEN/PH-L/321 861-9303
KSC/MIKE KUTA/USK-426/321-861-3890

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5351 - SERVICES - GROUND HANDLING EQUIPMENT

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 292050
ITEM NUMBER: K38D

HSFS-0/321-494-5116

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/10/94
RESPONSE TRACKING: Z2806 Z6522

[PRD] DATABASE RECORD: 292254 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/19/94
INITIAL DATE: 05/18/89
ITEM NUMBER: K39X DATE LAST CHANGED: 06/04/07
SECTION: 5351 TIME LAST CHANGED: 09:55:13

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DFRC EAFB S0026.100 S0026.200
S0026.300 S5022.100 S5022.200 STSALL
WSSH

ASSOCIATED DOC: 20026S 20027S 25022S
TRACKING NO. DB98 KING2001 L4314 R109-33 R2809
R2823 R6549 SCRUB06
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING OPERATIONS AT DFRC.

1. NAME OR
NOMENCLATURE: HI-RANGERS AT DFRC
2. CAPACITY: ONE 25 FT MIN. REACH, ONE 90 FT MIN. REACH
3. PURPOSE: 25 FT MIN. IS REQUIRED FOR SSME ENVIRONMENTAL COVER INSTALLATION AT DFRC. 90 FT MIN. IS REQUIRED FOR INSPECTIONS AT DFRC.

NOTE: 90 FT MIN. MUST BE AVAILABLE FOR DEPLOYMENT TO WSSH IF REQUIRED.

4. % USED:
5. RA OR SA:
6. NUMBER
REQD/QTR.:

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5351 - SERVICES - GROUND HANDLING EQUIPMENT

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 292254
ITEM NUMBER: K39X

7. REMARKS/
SPEC. INST.: TECH CONTACT: KSC/DEAN SCHAAF/PH-L/321 861-9311
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/19/94
RESPONSE TRACKING: Z2811 Z4340 Z6540

[PRD] DATABASE RECORD: 295175 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/26/88
INITIAL DATE: 08/26/88
ITEM NUMBER: K52X DATE LAST CHANGED: 03/22/07
SECTION: 5351 TIME LAST CHANGED: 08:51:15

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DFRC EAFB S0026.200 S0026.300
S0026.500 S0027.001 STSALL WSSH

ASSOCIATED DOC: 20026S 20027S
TRACKING NO. DB98 KING2001 R109-33 R26143 R26163
R26261 SCRUB06
PRIORITY: REQUIRED
RATIONALE: PHOTO IS NOT MANDATORY

1. NAME OR
NOMENCLATURE: MOBILE TV PHOTO VEHICLE WITH EQUIPMENT AND
OPERATOR (TV-2) ONE EACH AT EAFB.
2. CAPACITY:
3. PURPOSE:
4. % USED:
5. RA OR SA: SA
6. NUMBER
REQD/QTR.:
7. REMARKS/
SPEC. INST.: CONTACT: KSC/DEAN SCHAAF/PH-L/321 861-9311

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5351 - SERVICES - GROUND HANDLING EQUIPMENT

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 295175
ITEM NUMBER: K52X

KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/26/88
RESPONSE TRACKING: Z26154 Z2695

[PRD] DATABASE RECORD: 3327 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 10/16/85
ITEM NUMBER: K55D DATE LAST CHANGED: 05/30/07
SECTION: 5351 TIME LAST CHANGED: 10:33:01

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: MORON S51F11 S61A03 STSALL
TAL

ASSOCIATED DOC: 20029S
TRACKING NO. DB98 KING2001 L3849 R109-33 R2848
SCRUB06
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR NIGHT LANDING OPERATIONS AT MORON.

1. DESCRIPTION: TRAILERS FOR XENON LIGHTS - MORON

PROVIDE TWO FLATBED TRAILERS - 40 FT. MINIMUM LENGTH FOR
TRANSPORTING XENON LIGHTS AT MORON AB SPAIN.
A FIFTH WHEEL TRACTOR REQUIRED TO POSITION AND REMOVE TRAILERS
FOR A TAL NIGHT LANDING OPPORTUNITY.

TECH CONTACT: KSC/TIM O'BRIEN/PH-L/321 861-9303
KSC/MIKE KUTA/USK-426/321-861-3890
KSC/BOB CARR/SGS-5022/321-853-6034

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/12/89

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5351 - SERVICES - GROUND HANDLING EQUIPMENT

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 3327
ITEM NUMBER: K55D

RESPONSE TRACKING: Z2840

[PRD] DATABASE RECORD: 3328 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 10/16/85
ITEM NUMBER: K56D DATE LAST CHANGED: 05/30/07
SECTION: 5351 TIME LAST CHANGED: 10:33:01

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: S51F11 S61A03 STSALL TAL
ZARAGOZA

ASSOCIATED DOC: 20057S
TRACKING NO. DB98 KING2001 L3849 R109-33 R2848
SCRUB06
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR NIGHT LANDING OPERATIONS AT ZARAGOZA.

1. DESCRIPTION: TRAILERS FOR XENON LIGHTS - ZARAGOZA

PROVIDE TWO FLATBED TRAILERS - 40 FT. MINIMUM LENGTH FOR
TRANSPORTING XENON LIGHTS AT ZARAGOZA AB SPAIN.
A FIFTH WHEEL TRACTOR REQUIRED TO POSITION AND REMOVE TRAILERS
FOR A TAL NIGHT LANDING OPPORTUNITY.

TECH CONTACT: KSC/DEAN SCHAAF/PH-L/321 861-9300
KSC/MIKE KUTA/USK-426/321-861-3890
KSC/BOB CARR/SGS-5022/321-853-6034

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/12/89
RESPONSE TRACKING: Z2840

[PRD] DATABASE RECORD: 15891 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/25/88
INITIAL DATE: 07/25/88
ITEM NUMBER: K59D DATE LAST CHANGED: 05/30/07

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5351 - SERVICES - GROUND HANDLING EQUIPMENT

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 15891
ITEM NUMBER: K59D

SECTION: 5351 TIME LAST CHANGED: 10:33:05

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: FERRY STSALL
TRACKING NO. DB98 KING2001 R109-33 R26229
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR FERRY FLIGHT OPERATIONS.

1. DESCRIPTION: FORKLIFT 6K MIN.

PROVIDE 6K MINIMUM FORKLIFT WITH 12 FT. HEIGHT CAPABILITY AND OPERATOR AS REQUIRED TO SUPPORT ORBITER/SCA/PATHFINDER OPERATIONS AT DOD FERRY LANDING SITES.

TECH CONTACT: DENNY GAGEN/PH-L/321 861-9301
KSC/MIKE KUTA/USK-426/321 861-3890
DDMS-H/281-483-1351

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/24/88
RESPONSE TRACKING: Z26210

[PRD] DATABASE RECORD: 19428 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/19/89
INITIAL DATE: 09/19/89
ITEM NUMBER: K60X DATE LAST CHANGED: 03/22/07
SECTION: 5351 TIME LAST CHANGED: 08:52:39

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DFRC EAFB S0026.100 S0026.200
S0026.300 S0026.500 STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 L3412 R109-33 SCRUB06
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING OPERATIONS AT EAFB.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5351 - SERVICES - GROUND HANDLING EQUIPMENT

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 19428
ITEM NUMBER: K60X

1. DESCRIPTION: FUELING VEHICLE AT EAFB

PROVIDE FUELING VEHICLE TO REFUEL CONVOY EQUIPMENT AND GENERATORS.

TECH CONTACT: KSC/DEAN SCHAAF/PH-L/321 861-9311
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/25/89
RESPONSE TRACKING: Z3454

[PRD] DATABASE RECORD: 526289 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/16/94
INITIAL DATE: 05/16/94
ITEM NUMBER: K61X DATE LAST CHANGED: 03/22/07
SECTION: 5351 TIME LAST CHANGED: 08:53:11

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 R109-33 R6548 SCRUB06
SHAW94
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR FERRY FLIGHT OPERATIONS AT DFRC.

1. DESCRIPTION: MANLIFTS AT DFRC

PROVIDE 2 EA, 60 FT REACH 1000LB CAPACITY MANLIFTS, FOR USE DURING TAILCONE BUILDUP, MATE OPERATIONS AND OTHER TIMES AS NEEDED.

TECHNICAL CONTACT: KSC/DEAN SCHAAF/PH-L/321 861-9311
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5351 - SERVICES - GROUND HANDLING EQUIPMENT

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 526289
ITEM NUMBER: K61X

SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/20/94
RESPONSE TRACKING: Z6539

[PRD] DATABASE RECORD: 526290 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/16/94
INITIAL DATE: 05/16/94
ITEM NUMBER: K62X DATE LAST CHANGED: 03/22/07
SECTION: 5351 TIME LAST CHANGED: 08:53:41

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 R109-33 R6548 SCRUB06
SHAW94
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR NIGHT LANDING OPERATIONS AT EAFB.

1. DESCRIPTION: SCISSOR LIFT TRUCKS

PROVIDE 4 EA SCISSOR LIFT TRUCKS FOR USE WITH XENON LIGHTS.

CONTACT: KSC/DEAN SCHAAF/PH-L/321 861-9311
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/20/94
RESPONSE TRACKING: Z6539

[PRD] DATABASE RECORD: 526552 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/10/97
INITIAL DATE: 06/24/94
ITEM NUMBER: T63KZ DATE LAST CHANGED: 05/31/07

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5351 - SERVICES - GROUND HANDLING EQUIPMENT

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 526552
ITEM NUMBER: T63KZ

SECTION: 5351 TIME LAST CHANGED: 09:37:27

REQUESTER: JSC
SUBREQUESTER: JSC/CC2 JSC/MG
TEST CODE: FERRY SLF STSALL

ASSOCIATED DOC: 25001S 25041S
TRACKING NO. KING2001 L6826 L8711 R109-33 R109-39
SCRUB06
PRIORITY: MANDATORY
RATIONALE: MISSION SUCCESS

1. DESCRIPTION: AIRCRAFT STAIR TRUCK FOR SCA

AN AIRCRAFT STAIR TRUCK IS REQUIRED FOR AIRCREW AND MAINTENANCE PERSONNEL TO ENTER AND EGRESS THE SHUTTLE CARRIER AIRCRAFT (SCA) FOR STOPOVERS AND FINAL DESTINATION DURING MATED FERRY FLIGHTS.

WSTF TO PROVIDE FOR STOPOVERS AT BIGGS ARMY AIRFIELD IN EL PASO, TEXAS. TIME REQUIRED RANGES FROM A MINIMUM OF 2 HOURS TO SEVERAL DAYS. THE LENGTH OF TIME FOR THE STOPOVER IS WEATHER DEPENDANT.

KSC TO PROVIDE AT THE SHUTTLE LANDING FACILITY (SLF) FOR 3 TO 4 DAYS AS REQUIRED.

NOTE: SCHEDULE WILL BE PRE-PLANNED AND CHANGED IN REAL TIME AS REQUIRED.

TECHNICAL CONTACT: HSFS-H/281-483-1351
DENNY GAGEN/PH-L/321-861-9301

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-IT-D2 I-PH-I I-USK-426
SGS-062 SGS-347

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/10/97
RESPONSE:

RESPONSE TRACKING: Z6827 Z7012 Z8723

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5351 - SERVICES - GROUND HANDLING EQUIPMENT

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 526552
ITEM NUMBER: T63KZ

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 11/10/97
RESPONSE:
A STAIRCASE TRUCK IS LOCATED AT EL PASO
INTERNATIONAL AIRPORT, NASA FACILITIES, ON A FULL TIME BASIS.

RESPONSE TRACKING: Z7305 Z7910 Z8723

[PRD] DATABASE RECORD: 532541 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/24/96
INITIAL DATE: 05/09/96
ITEM NUMBER: K65E DATE LAST CHANGED: 03/22/07
SECTION: 5351 TIME LAST CHANGED: 09:17:48

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-246
TEST CODE: DFRC EOM S0026.100 S0026.200
S0026.300

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 L7609 L7705 R109-33
R7803
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING OPERATIONS AT DFRC.

1. DESCRIPTION: FORKLIFT SUPPORT FOR DESTOW PLATFORM

PROVIDE A 16 K MINIMUM FORKLIFT CAPABLE OF HANDLING 5500LB AT 86 IN. LOAD CENTER WITH A STANDARD FORK SPREAD. FORKS ARE TO BE 8 FT LONG. FORKLIFT TO SUPPORT CREW EQUIPMENT DESTOW PLATFORM ON THE RUNWAY. FORKLIFT MUST BE AVAILABLE TO SUPPORT FROM THE BEGINNING OF THE MISSION UNIQUE PAYLOAD EARLY DESTOW (NORMALLY L+48 HR) THROUGH ORBITER TOW FROM THE RUNWAY.

TECHNICAL CONTACTS: KSC/PH-L/DEAN SCHAAF/321 861-9311
KSC/USK-426/MIKE KUTA/321 861-3890
KSC/PH-L/LOUIE GARCIA/321-867-6196

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5351 - SERVICES - GROUND HANDLING EQUIPMENT

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 532541
ITEM NUMBER: K65E

OS/GEORGE GRIMSHAW/661-276-3425

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/03/97
RESPONSE TRACKING: Z8217

[PRD] DATABASE RECORD: 591160 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/23/07
INITIAL DATE: 03/23/07
ITEM NUMBER: K66Z DATE LAST CHANGED: 04/03/07
SECTION: 5351 TIME LAST CHANGED: 11:59:31

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L
TEST CODE:

ASSOCIATED DOC: 20027S
TRACKING NO. R0703-5 R0704-1

1. DESCRIPTION: WSSH AERIAL LIFT

PROVIDE A 150 FOOT CONDOR TO THE TURNAROUND PAD AT
WSSH 24 HOURS PRIOR TO LANDING AT WSSH.

TECH CONTACT: WSTF/ROBERT MITCHELL/505 524-5774
KSC/LOU GARCIA/321 867-6196

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/26/07

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5360 - SERVICES - AIRCRAFT

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 11470 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K2E DATE LAST CHANGED: 12/06/06
SECTION: 5360 TIME LAST CHANGED: 07:51:02

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 R109-56 R2829 SCRUB06

1. DESCRIPTION: GENERATOR POL AT WHITE SANDS SPACE HARBOR

PROVIDE PETROLEUM, OIL AND LUBRICANTS FOR KSC-PROVIDED
GENERATORS AT WHITE SANDS SPACE HARBOR.

TECH CONTACT: KSC/LOUIE GARCIA/PH-L/321 867-6196
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/05/89
RESPONSE TRACKING: Z2720 Z2822

[PRD] DATABASE RECORD: 11471 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K3E DATE LAST CHANGED: 12/06/06
SECTION: 5360 TIME LAST CHANGED: 07:53:01

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 R109-56 R2829 SCRUB06
PRIORITY: REQUIRED
RATIONALE: REQUIRED FOR WSSH LANDING SUPPORT.

1. DESCRIPTION: FUEL AND OIL SERVICES AT WHITE SANDS SPACE HARBOR

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5360 - SERVICES - AIRCRAFT

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 11471
ITEM NUMBER: K3E

PROVIDE FUEL, OIL AND SERVICES FOR GOVERNMENT-OWNED VEHICLES
AND EQUIPMENT USED AT WSSH.

TECH CONTACT: KSC/LOUIE GARCIA/PH-L/321 867-6196
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/05/89
RESPONSE TRACKING: Z2720 Z2822

[PRD] DATABASE RECORD: 11472 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K4D DATE LAST CHANGED: 05/30/07
SECTION: 5360 TIME LAST CHANGED: 10:33:02

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DODALS DODELS STSALL
TRACKING NO. DB98 KING2001 R109-56 R2848 SCRUB06
PRIORITY: REQUIRED
RATIONALE: REQUIRED FOR LANDING OPERATIONS AT ALS/ELS.

1. DESCRIPTION: GENERATOR POL AT DOD ALS/ELS

PROVIDE PETROLEUM, OIL AND LUBRICANTS FOR GENERATORS PROVIDED
BY NASA AT THE DOD ALS/ELS. TYPES AND AMOUNTS ARE TBD.

TECH CONTACT: KSC/TIM O'BRIEN/PH-L/321 861-9303
DDMS-0/321-494-5116

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/12/89
RESPONSE TRACKING: Z2840

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5360 - SERVICES - AIRCRAFT

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 206282 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/03/94
INITIAL DATE: 08/22/88
ITEM NUMBER: T4D DATE LAST CHANGED: 05/30/07
SECTION: 5360 TIME LAST CHANGED: 10:33:12

REQUESTER: JSC
TEST CODE: FERRY STSALL
TRACKING NO. KING2001 L6813 R109-28 R109-39 R26264
SCRUB06
PRIORITY: MANDATORY
RATIONALE: FERRY FLIGHT OPERATIONS/MISSION SUCCESS.

1. DESCRIPTION: FERRY AIRCRAFT SUPPORT AT DOD BASES (ENROUTE)

PROVISIONS SHOULD BE MADE FOR A TRANSIENT SERVICE TO ACCOMMODATE A C-135 AIRCRAFT. APPROXIMATELY 45,000 LBS. OF JET FUEL (JP5 OR EQUIVALENT) AND A MD3 POWER UNIT WILL BE REQUIRED.

JSC POINT OF CONTACT: BOB WILLIAMS/NASA/JSC/CC43 - AIRCRAFT OPERATIONS/281 244-9809

TECH CONTACT: JSC/DON MCCORMICK/281 483-5900
DDMS-H/281 483-1351
KSC/DENNY GAGEN/PH-L/321 861-9301

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/03/94
RESPONSE TRACKING: Z26210 Z6812

[PRD] DATABASE RECORD: 11473 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K5X DATE LAST CHANGED: 03/22/07
SECTION: 5360 TIME LAST CHANGED: 08:54:23

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S

CONTINUED

[PRD] DATABASE RECORD: 11473
ITEM NUMBER: K5X

TRACKING NO. DB98 KING2001 R109-56 R2826 SCRUB06
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING OPERATIONS AT EAFB.

1. DESCRIPTION: GENERATOR POL AT EAFB

PROVIDE PETROLEUM, OIL AND LUBRICANTS FOR GENERATORS
PROVIDED BY KSC.

TECH CONTACT: KSC/DEAN SCHAAF/PH-L/321 861-9311
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/30/89
RESPONSE TRACKING: Z2814

[PRD] DATABASE RECORD: 11474 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/20/98
INITIAL DATE: 07/13/90
ITEM NUMBER: K6E DATE LAST CHANGED: 12/06/06
SECTION: 5360 TIME LAST CHANGED: 07:59:27

REQUESTER: KSC
SUBREQUESTER: DB98 I-PH-L KING2001 USK-705
TEST CODE: CCAFS STSALL

ASSOCIATED DOC: 25407B
TRACKING NO. L3826 R109-56 R2821 R9104
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING OPERATIONS AT EAFB.

1. DESCRIPTION: FUEL FOR 1 GANTRY CRANE AT SRB
DISASSEMBLY FACILITY, CCAS
PROVIDE 30 GALLONS OF NO. 2 DIESEL FUEL PER CRANE
AS REQUESTED IN REAL TIME.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5360 - SERVICES - AIRCRAFT

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 11474
ITEM NUMBER: K6E

TECH CONTACT: JOHN MULLEN/USK-705/321 853-5682

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/20/98
RESPONSE TRACKING: Z2821 Z3837 Z9104

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5370 - SERVICES - AIR OPERATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 216207 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/18/90
INITIAL DATE: 07/18/90
ITEM NUMBER: K1E DATE LAST CHANGED: 12/06/06
SECTION: 5370 TIME LAST CHANGED: 08:03:21

REQUESTER: KSC
SUBREQUESTER: NE-E
TEST CODE: 26002B 26002C 26002D EAFB
KSC MSBLS WSSH

ASSOCIATED DOC: 26002
TRACKING NO. DB98 KING2001 L3825 R109-35 R2831
SCRUB06
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR POWER FOR MSBLS TEST AIRCRAFT WHILE ON GROUND.

1. DESCRIPTION: MD-3 TYPE GENERATOR

AN MD-3 TYPE GENERATOR WILL BE REQUIRED UPON REQUEST TO PROVIDE GROUND POWER TO THE MSBLS TEST AIRCRAFT.
REF LLS2000, ITEM K8K, DBR 217892.

TECH CONTACT: KSC/JOHN KIRIAZES/EN-E1/321 861-3700
KSC/DEAN SCHAAF/PH-L/321 861-9311

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB ER WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/18/90
RESPONSE TRACKING: Z2720 Z2824 Z3835

[PRD] DATABASE RECORD: 216429 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/18/90
INITIAL DATE: 07/18/90
ITEM NUMBER: K2E DATE LAST CHANGED: 12/06/06
SECTION: 5370 TIME LAST CHANGED: 08:05:34

REQUESTER: KSC
SUBREQUESTER: NE-E
TEST CODE: 26002B 26002C 26002D EAFB
KSC MSBLS WSSH

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5370 - SERVICES - AIR OPERATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 216429
ITEM NUMBER: K2E

ASSOCIATED DOC: 26002
TRACKING NO. DB98 KING2001 L3825 R109-35 R2831
SCRUB06
PRIORITY: REQUIRED
RATIONALE: REQUIRED FOR AIR CONDITIONING FOR MSBLS TEST AIRCRAFT WHILE ON THE GROUND.

1. DESCRIPTION: AIRCRAFT AIR CONDITIONER

AN AIRCRAFT AIR CONDITIONER WILL BE REQUIRED UPON REQUEST FOR THE MSBLS TESTING AIRCRAFT DURING DESIGNATED PERIODS WHILE PARKED FOR ANNUAL FLIGHT TESTS. REF LLS2000, ITEM K8K, DBR 217892.

TECH CONTACT: JOHN KIRIAZES/NE-E1/321 861-3700
DEAN SCHAAF/PH-L/321 861-9311

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB ER WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/18/90
RESPONSE TRACKING: Z2720 Z2824 Z3835

[PRD] DATABASE RECORD: 204013 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/20/93
INITIAL DATE: 05/09/91
ITEM NUMBER: K3DK DATE LAST CHANGED: 06/04/07
SECTION: 5370 TIME LAST CHANGED: 10:00:26

REQUESTER: KSC
SUBREQUESTER: KSC/NE-E1 KSC/PH-L
TEST CODE: 26002B 26002C 26002D EAFB
ISTRES KSC MORON MSBLS
WSSH ZARAGOZA

ASSOCIATED DOC: 26002
TRACKING NO. DB98 KING2001 L3825 L4025 L5207
R109-35 R2697 R3936 R7002 SCRUB06
PRIORITY: MANDATORY
RATIONALE: MANDATORY FOR FLIGHT SAFETY.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5370 - SERVICES - AIR OPERATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 204013
ITEM NUMBER: K3DK

1. DESCRIPTION: RESTRICTED AIRSPACE

RESTRICTED AIRSPACE AREAS (TO A MAXIUM ALTITUDE OF 15000 FT.)
ARE TO BE ACTIVATED DURING MSBLS FLIGHT TEST PERIODS.

NOTE: NE-E1 WILL ARRANGE FOR AIRCRAFT FOR MSBLS FLIGHT
TEST PERIODS.
PH-L WILL COORDINATE DATES AND TIMES WITH ALL SITES.

AREAS OF RESPONSIBILITY ARE AS FOLLOWS:
A. ER - EAFB, ER AND WSMR.
B. DDMS - ZARAGOZA AND MORON.
C. JBOSC SLF OPERATIONS - WILL COORDINATE FLIGHT CHECKOUT
TEST PERIODS WITH ER FOR KSC/SLF.

TECH CONTACT: JOHN KIRIAZES/NE-E1/321 867-3700
DEAN SCHAAF/PH-L/321 861-9311
HSFS-0/321-494-5116
ED TAFF/TA-F-F/321-867-2100

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/22/95
RESPONSE TRACKING: Z4305 Z5207 Z6905

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-TA IT-D2 PH-L
SGS-346 SGS-347

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/25/96
RESPONSE TRACKING: Z4030 Z5207 Z8111

[PRD] DATABASE RECORD: 296744 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/02/90
INITIAL DATE: 02/02/90
ITEM NUMBER: T4Z DATE LAST CHANGED: 12/06/06
SECTION: 5370 TIME LAST CHANGED: 08:09:51

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5370 - SERVICES - AIR OPERATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 296744
ITEM NUMBER: T4Z

REQUESTER: JSC
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. KING2001 L001-11 L3625 R109-35 SCRUB06
PRIORITY: REQUIRED
RATIONALE: TERTIARY LANDING SITE BECOMES MANDATORY IF LANDING AT WSSH.

1. TYPE/ITEM SERVICE: RUNWAY INSPECTION AT WHITE SANDS SPACE HARBOR
2. RA OR SA: SA
3. DATES, AMTS. OR CHECK FOR REQ'D ITEM/ SERVICE:
4. PURPOSE/REMARKS/ SPEC. INSTRUCT: UPON THE DESIGNATION OF WSSH FOR LANDING, INSPECT RUNWAY/TOWWAY TO BE USED BY THE ORBITER. REMOVE ANY POTENTIALLY DAMAGING MATERIAL FROM THE LANDING AREA AS TIME PERMITS.

TECH CONTACT: KSC/LOUIE GARCIA/PH-L/321 867-6196
KSC/MIKE KUTA/USK-426/321 861-3890
ROBERT MITCHELL/RC1/505 524-5774

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/15/90
RESPONSE TRACKING: Z26146 Z3623

[PRD] DATABASE RECORD: 296937 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K5D DATE LAST CHANGED: 05/31/07
SECTION: 5370 TIME LAST CHANGED: 07:21:46

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5370 - SERVICES - AIR OPERATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 296937
ITEM NUMBER: K5D

TEST CODE: DODALS DODELS STSALL
TRACKING NO. DB98 KING2001 R109-35 R2848 SCRUB06
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING OPERATIONS AT DOD ALS/ELS.

1. TYPE/ITEM
   SERVICE: DOD ALS/ELS RUNWAY INSPECTION
2. RA OR SA: SA
3. DATES, AMTS.
   OR CHECK FOR
   REQ'D ITEM/
   SERVICE:
4. PURPOSE/REMARKS/
   SPEC. INSTRUCT: UPON THE DESIGNATION OF A DOD ALS/ELS FOR LANDING, INSPECT RUNWAY TO BE USED BY THE ORBITER. REMOVE ANY POTENTIALLY DAMAGING MATERIAL FOD FROM THE LAN AREA AS TIME PERMITS.

   TECH CONTACT: KSC/TIM O'BRIEN/PH-L/321 861-9303
   KSC/MIKE KUTA/USK-426/321 861-3890
   HSFS-0/321-494-5116

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/12/89
RESPONSE TRACKING: Z2840

[PRD] DATABASE RECORD: 320077 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/21/88
INITIAL DATE: 11/21/88
ITEM NUMBER: K7D DATE LAST CHANGED: 05/31/07
SECTION: 5370 TIME LAST CHANGED: 07:52:15

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DODALS DODELS STSALL
TRACKING NO. DB98 KING2001 L2741 R109-35 SCRUB06
PRIORITY: REQUIRED
RATIONALE: ALTERNATE SOURCES AVALIABLE

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5370 - SERVICES - AIR OPERATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 320077
ITEM NUMBER: K7D

1. DESCRIPTION: B-5A(500 LBS) ADJUSTABLE STAND (A79-0012)-DOD ALS/ELS.

WITHIN CAPABILITIES PROVIDE STAND AS REQUIRED TO THE GROUND TURNAROUND TEAM AFTER LANDING AT THE DOD ALS/ELS FOR ORBITER ACCESS (TOP).

TECH CONTACT: KSC/TIM O'BRIEN/PH-L/321 861-9303
KSC/MIKE KUTA/USK-426/321 861-3890
HSFS-0/321-494-5116

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/21/88
RESPONSE TRACKING: Z2756

[PRD] DATABASE RECORD: 349614 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/25/96
INITIAL DATE: 08/17/90
ITEM NUMBER: T9KT DATE LAST CHANGED: 12/06/06
SECTION: 5370 TIME LAST CHANGED: 08:14:20

REQUESTER: JSC
SUBREQUESTER: JSC/CA4 JSC/CC5
TEST CODE: PAFB STSALL
TRACKING NO. KING2001 L005-15 L008-6 L02-5-2 L3044
L3549 L3556 L3564 L507-5 R109-35
R2932 R8107 SHAW95

1. DESCRIPTION: SHUTTLE TRAINING AIRCRAFT GROUND SUPPORT EQUIPMENT FOR KSC/SHUTTLE LANDING FACILITIES

1. GROUND SUPPORT EQUIPMENT TO SUPPLY ELECTRICAL POWER TO AIRCRAFT, CAPABILITY OF 28V DC AND 400 CYCLE AC. (PROVIDED BY JBOSC)
2. AIR START UNIT MA1A. (PROVIDED BY JBOSC)
3. TUG G-2 NORTHWESTERN EQUIPMENT TYPE NO. 120-G, MFGS NO. 87-C-659. (PROVIDED BY KSC/JBOSC)

4. JACK TRIPOD-AIRCRAFT, HYDRAULIC, ADJUSTABLE

CONTINUED

[PRD] DATABASE RECORD: 349614
ITEM NUMBER: T9KT

TWO - 25 TON (APPROX 48" HEIGHT RETRACTED). (PROVIDED BY JSC/NWASI)

ONE - 20 TON (APPROX 48" HEIGHT RETRACTED). (PROVIDED BY JSC/NWASI)

5. G-2 ENGINE MAINTENANCE STAND PART NO. 18513, McDERMOTT ASSOC., OR EQUIVALENT. (PROVIDED BY JSC/NWASI)

6. HYDRAULIC MULE (SKYDROL ONLY), SPRAGUE ENGINEERING CORE MODEL S152-ZOES MOD HYDRA-TEC CORP MODEL DYD 81575 (PROVIDED BY JSC/NWASI)

7. TWO NITROGEN BOTTLES AND HAND CART(3500PSI). (PROVIDED BY KSC/JBOSC)

8. TWO OXYGEN BOTTLES AND HAND CART (GASEOUS-1800 PSI). (PROVIDED BY KSC/JBOSC)

9. B4 OR C5, OR EQUIVALENT, WORKSTAND FOR ROUTINE/DAILY MAINTENANCE. (PROVIDED BY KSC/USA)

NOTES:

1. POINT OF CONTACT FOR JSC FLIGHT CREW OPERATIONS DIVISION (FCOD) FACILITIES IS THE SHUTTLE TRAINING SUPPORT BRANCH/AIRCRAFT OPS DIVISION/281 244-7272, ELLINGTON FIELD, HOUSTON, TEXAS.

2. ITEMS 4 (JACKS), 5 (G-2 ENGINE STAND), AND 6 (MULE) ARE PROVIDED BY DYNCORP INC., OPERATORS OF THE GULFSTREAM SHUTTLE TRAINING AIRCRAFT. THESE ARE CONTINGENCY ITEMS AND ARE ONLY REQUIRED FOR MAJOR REPAIRS. IF THEY ARE EVER REQUIRED AT KSC, DYNCORP WILL FLY THEM IN FROM OTHER SITES/AIRFIELDS.

TECHNICAL CONTACT: JSC/CA4/ROBERT HANLEY/281 244-8654

COORDINATION: JSC/CC521/KENNETH BAKER/281 244-9766

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: PH-L SGS-346 SGS-347
USK-266

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/25/96

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5370 - SERVICES - AIR OPERATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 349614
ITEM NUMBER: T9KT

RESPONSE TRACKING: Z26113 Z2855 Z2927 Z3055 Z3581
Z3849 Z3857 Z3965 Z8111

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/09/96
RESPONSE TRACKING: Z3562 Z3566 Z3581 Z6916 Z8116

[PRD] DATABASE RECORD: 320787 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/02/90
INITIAL DATE: 02/02/90
ITEM NUMBER: T12EK DATE LAST CHANGED: 06/04/07
SECTION: 5370 TIME LAST CHANGED: 09:59:37

REQUESTER: JSC
SUBREQUESTER: JSC/CA4 JSC/CC5
TEST CODE: FERRY STSALL
TRACKING NO. KING2001 L001-11 L02-2-1 L3625 L507-5
R109-35 SHAW95

1. DESCRIPTION: AIRCRAFT SUPPORT AT KSC-SCA/ORBITER FERRY ARRIVAL

A. APPROXIMATELY 30K GALLONS OF JP-5 FUEL (TURBINE A) (KSC/SGS).
B. TWO AIR START UNITS - ON STANDBY STATUS (UNITS SHOULD BE MA-1 OR EQUIVALENT) (45 SW).
C. TWO ELECTRICAL POWER GENERATORS, 115V - 400 HZ (MD-3 OR EQUIVALENT) - ON STANDBY STATUS (45 SW).
D. ONE TOW TRACTOR (KSC/HESA).
E. GN2 SERVICE CART FOR SERVICING THE SCA LANDING GEAR STRUTS (DURING MATING/DEMATING ACTIVITIES) (KSC/SGS).
F. HIGH-RANGER FOR 747 TAIL ASSEMBLY INSPECTION (KSC/HESA).

TECHNICAL CONTACT: JSC/CA4/ROBERT HANLEY/281 244-8654
DENNY GAGEN/PH-L/321 861-9301

COORDINATION: JSC/CC5/DAVID MUMME/281 244-9646
JSC/DON MCCORMICK/281 483-5900

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5370 - SERVICES - AIR OPERATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 320787
ITEM NUMBER: T12EK

SUBSUPPLIER: ER
RESPONDER: ALEX CARAZO/321 853-8650

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/08/90
RESPONSE TRACKING: Z2623

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: HEE I-NE-M8 SGS-027
SGS-347

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/12/90
RESPONSE TRACKING: Z109-10 Z3623

[PRD] DATABASE RECORD: 321088 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/26/92
INITIAL DATE: 02/02/90
ITEM NUMBER: T13D DATE LAST CHANGED: 05/31/07
SECTION: 5370 TIME LAST CHANGED: 07:53:25

REQUESTER: JSC
TEST CODE: FERRY STSALL
TRACKING NO. KING2001 L001-11 L02-2-1 L203-18 L3625
L4911 R109-35 R109-39 SCRUB06
PRIORITY: MANDATORY
RATIONALE: FERRY FLIGHT OPERATIONS/MISSION SUCCESS.

1. DESCRIPTION: SCA/ORBITER FERRY FLIGHTS

1. AT DOD ENROUTE SITES, PROVIDE 20,000 GALLONS OF JP-5 FUEL FOR THE PRIMARY SITE. 20,000 GALLONS OF JET A FUEL IS REQUIRED FOR ALTERNATE SITES.
2. THE FOLLOWING GSE IS REQUIRED:
   A. ELECT. POWER: 40 KVA MINIMUM, 115 VOLT 400 HZ., LMD-3 OR EQUIVALENT.
   B. PNEUMATIC: TWO LOW PRESSURE MA-1 OR EQUIVALENT.
   C. SUPPORT STAND: B-4 OR EQUIVALENT.
   D. FORKLIFT: 5000 LB.CAPACITY, 8'-12' HEIGHT CAPACITY.

TECH CONTACT: JSC/DON MCCORMICK/281 483-5900
KSC/DENNY GAGEN/PH-L/321 861-9301

CONTINUED

[PRD] DATABASE RECORD: 321088
ITEM NUMBER: T13D

HSFS-H/281 483-1351

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/26/92
RESPONSE TRACKING: Z3623 Z4905

[PRD] DATABASE RECORD: 328827 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K15E DATE LAST CHANGED: 12/06/06
SECTION: 5370 TIME LAST CHANGED: 08:33:49

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 R109-35 R2814
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING OPERATIONS AT DFRC.

1. DESCRIPTION: DFRC/EAFB SUPPORT

PROVIDE FOD SWEEP OF RUNWAYS, TAXIWAYS AND TOWWAYS.

TECH CONTACT: KSC/MIKE KUTA/USK-426/321 861-3890
DENNY GAGEN/PH-L/321 861-9301

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/19/89
RESPONSE TRACKING: Z2805

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5370 - SERVICES - AIR OPERATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 296476 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/28/90
INITIAL DATE: 03/28/90
ITEM NUMBER: X16E DATE LAST CHANGED: 03/22/07
SECTION: 5370 TIME LAST CHANGED: 08:54:57

REQUESTER: DFRC
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. KING2001 L3125 R109-35
PRIORITY: MANDATORY
RATIONALE: LAKEBED LANDING SUPPORT OPERATIONS

1. TYPE/ITEM
   SERVICE: SPECIAL RUNWAY MARKINGS ON LAKEBED RUNWAYS FOR
   ORBITER LANDINGS AT EAFB.
2. RA OR SA:
3. DATES, AMTS.
   OR CHECK FOR
   REQ'D ITEM/
   SERVICE:
4. PURPOSE/REMARKS/
   SPEC. INSTRUCT: TECH CONTACT: GEORGE GRIMSHAW
   661-276-3425

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/28/90
RESPONSE TRACKING: Z3155

[PRD] DATABASE RECORD: 17021 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/19/05
INITIAL DATE: 01/29/89
ITEM NUMBER: K19D DATE LAST CHANGED: 05/30/07
SECTION: 5370 TIME LAST CHANGED: 10:33:07

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L KSC/USK-426
TEST CODE: FERRY STSALL
TRACKING NO. DB98 KING2001 L2759 L2906 L5214
L5217 L8802 R0511-2 R109-35

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5370 - SERVICES - AIR OPERATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 17021
ITEM NUMBER: K19D

PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR FERRY FLIGHT OPERATIONS.

1. DESCRIPTION: FERRY FLIGHT SUPPORT PAYLOAD/RCS THRUSTER PURGE

PROVIDE THE FOLLOWING EQUIPMENT, WHEN REQUESTED, TO SUPPORT PAYLOAD/ RCS THRUSTER PURGER REQUIREMENTS AT THE DESIGNATED DOD PLANNED OVERNIGHT STOP LOCATION DURING SCA/OV FERRY OPERATIONS:

A. ONE 60-70 FOOT AERIAL OPEN WORK PLATFORM WITH OPERATOR. PLATFORM MUST HAVE 750 LB./3 PERSON CAPACITY (BUCKET TRUCK IS NOT ACCEPTABLE).
B. ONE TRUCK WITH PINTLE HOOK CAPABLE OF TOWING 8520 LB. LOAD.
C. ONE 30 FOOT WORKSTAND TO SUPPORT PURGE DUCTING.
D. ONE GOVERNMENT VEHICLE FOR PASSENGER TRANSPORTATION.
E. APPROXIMATELY 300 GALLONS OF DIESEL FUEL PER DAY.

NOTE: IN THE EVENT THAT A PAYLOAD PURGE IS REQUIRED AND NO BACKUP UNIT IS AVAILABLE, THE PAYLOAD OMRSD REQUIREMENTS SUPERSEDE ANY RCS REQUIREMENTS OUTLINED IN THIS REQUIREMENT.

TECH CONTACT: KSC/PH-L/DENNY GAGEN/321 861-9301
KSC/USK-426/MIKE KUTA/321 861-3890
DON MCCORMICK/281 483-5900
DDMS-H/281 483-1351

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/19/05
RESPONSE TRACKING: Z2939 Z2954 Z5214 Z5309 Z9309

[PRD] DATABASE RECORD: 520235 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/10/94
INITIAL DATE: 06/10/92
ITEM NUMBER: D20K DATE LAST CHANGED: 06/04/07
SECTION: 5370 TIME LAST CHANGED: 10:01:29

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5370 - SERVICES - AIR OPERATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 520235
ITEM NUMBER: D20K

REQUESTER: HSFS
SUBREQUESTER: HSFS/X KSC/PH-L
TEST CODE: SPECIAL

ASSOCIATED DOC: MODE8
TRACKING NO. KING2001 L4601 R109-35 R6530 SCRUB06
PRIORITY: REQUIRED
RATIONALE: REQUIRED TO PREPARE DoD FORCES FOR ASTRONAUT RESCUE AND RECOVERY.

1. DESCRIPTION: SHUTTLE LANDING FACILITY (SLF) SUPPORT FOR MODE VIII EXERCISE

PROVIDE THE FOLLOWING SUPPORT FOR DOD/DDMS MODE VIII EXERCISE:

A. PARKING FOR DOD SAR HELICOPTERS.

B. ACCESS TO AIRCREW LOUNGE FACILITIES.

C. DEDICATED AIRFIELD TOWER PERSONNEL.

D. NORMAL TOWER COMMUNICATIONS TO INCLUDE VHF RADIO.

E. PARKING AREA FOR DOD SUPPORT VEHICLES, FUEL TRUCKS, AMBULANCES AND GROUND SERVICING EQUIPMENT (GSE) AS APPLICABLE.

TECH CONTACT: ROBERT V. BRYAN/SGS-346/321 867-2100
LRD/PH-L/321 861-9300
ED TAFF/TA-E-C/321 867-2100
(D)HSFS-X/321-494-5116

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-TA-E SGS-346 SGS-347

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/10/94
RESPONSE TRACKING: Z4615 Z6522

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5371 - SERVICES - MARINE OPERATIONS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD:	520237	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	LLS	APPROVAL DATE:	06/11/98
		INITIAL DATE:	06/10/92
ITEM NUMBER:	D1K	DATE LAST CHANGED:	05/31/07
SECTION:	5371	TIME LAST CHANGED:	08:23:16

REQUESTER: HSFS
SUBREQUESTER: HSFS/X
TEST CODE: SPECIAL

ASSOCIATED DOC: MODE8
TRACKING NO. KING2001 L4601 L4618 R109-34 R9501
SCRUB06
PRIORITY: REQUIRED
RATIONALE: REQUIRED TO PREPARE DoD FORCES FOR ASTRONAUT RESCUE AND RECOVERY.

1. DESCRIPTION: SRB RECOVERY SHIPS FOR MODE VII EXERCISE SUPPORT - USA

PROVIDE THE FOLLOWING SUPPORT FOR DOD/DOT SEARCH AND RESCUE EXERCISE:

A. DEDICATED USE OF TWO SRB SHIPS, FREEDOM STAR AND LIBERTY STAR, FOR LOGISTICS SUPPORT OF EXERCISE.

B. TRANSPORTATION, BILLETING AND MESSING FOR EXERCISE PARTICIPANTS AS REQUIRED DURING THE EXERCISE.

C. ONBOARD, FRESH WATER RINSE CAPABILITY FOR SAR EQUIPMENT.

D. ASSISTANCE IN RECOVERING EXERCISE PERSONNEL AND EQUIPMENT IN THE EXERCISE AREA. USE OF SRB INFLATABLE CRAFT REQUIRED (1 PER SHIP).

E. SRB SHIPS MUST BE CAPABLE OF COMMUNICATION ON EXERCISE COMMAND RADIO NET. HIGH FREQUENCY (HF) RADIO CAPABILITY IS MINIMUM STANDARD.

NOTE: HSFS AND NASA(PH-L)/USA WILL COORDINATE THE LEVEL OF SUPPORT EACH TIME THIS EXERCISE IS CONDUCTED.

TECH CONTACTS: LRD/PH-L/321 861-9300
JOE CHAPUT/USK-705/321 853-3410
(D)HSFS-X/321-494-2143

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)

CONTINUED

[PRD] DATABASE RECORD: 520237
ITEM NUMBER: D1K

SUBSUPPLIER: PH-L USK-705

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/11/98
RESPONSE TRACKING: Z4623 Z9501

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5410 - LABORATORY - CHEMICAL AND PHYSICAL ANALYSIS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 224023 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K1Z DATE LAST CHANGED: 12/06/06
SECTION: 5410 TIME LAST CHANGED: 08:52:42

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 L2647 R109-15 R2832
SCRUB06
PRIORITY: MANDATORY
RATIONALE: SAFETY - REQUIRED FOR WSSH LANDING SUPPORT.

1. DESCRIPTION: PROVIDE SAMPLE ANALYSIS OF GN2, GHe (INCLUDING HYPERGOLIC PURGE GASES), REFRIGERANT 114 AND HYDRAULIC OIL PER SE-S-0073 AND UNKNOWN SUBSTANCES FOR WSSH.

TECH CONTACT: KSC/LOUIE GARCIA/321 867-6196
KSC/MIKE KUTA/321 861-3890
ROBERT MITCHELL/RC1/505-524-5774

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/02/89
RESPONSE TRACKING: Z26146 Z2825

[PRD] DATABASE RECORD: 225784 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/30/89
INITIAL DATE: 06/30/89
ITEM NUMBER: T2K DATE LAST CHANGED: 12/06/06
SECTION: 5410 TIME LAST CHANGED: 08:56:48

REQUESTER: JSC
TEST CODE: ALS EAFB ELS STSALL
WSSH

ASSOCIATED DOC: 20026S 20027S 20028S
TRACKING NO. KING2001 L906-8 R109-15 R2637 R2809
R2886

1. DESCRIPTION: ORBITER AFT FUSELAGE GAS SAMPLING

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5410 - LABORATORY - CHEMICAL AND PHYSICAL ANALYSIS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 225784
ITEM NUMBER: T2K

JSC REQUIRES KSC TO PERFORM GAS SAMPLING ANALYSIS, POST-LANDING, OF THE AFT FUSELAGE GAS SAMPLER SYSTEM, TWO SAMPLING UNITS, ONE EACH MOUNTED ON THE INTERIOR OF EACH AFT FUSELAGE ACCESS DOOR, WILL COLLECT A TOTAL OF SIX GAS SAMPLES DURING THE FIRST 125 SECONDS OF EACH FLIGHT.

POST-LANDING REMOVAL AND DISPOSITION OF THE GAS SAMPLE BOTTLES FROM THE ORBITER IS PRIOR ARRANGED (VIA THE OMSRD). EACH BOTTLE HAS A 1/4 INCH DIAMETER SOFT ALUMINUM TUBE FOR ACCESSING AND EXTRACTING SAMPLES OF LAB ANALYSIS. BASICALLY, THE ANALYSIS REPORT MUST SHOW ALL GAS SPECIES EXCEEDING 100 PARTS PER MILLION AND TOTAL PRESSURE IN EACH BOTTLE. KSC PROVIDER FOR SAMPLING AND ANALYSIS IS TOM SCHEHL/LO-G3-C/321 861-3910/3080 (KSC MICRO CHEMICAL ANALYSIS LAB).

JSC TECH CONTACT: NANCY MUNOZ/EP4/281 483-9015
KSC TECH CONTACT: STEVE TOWNSEND/NE-M7/321 861-3584

NOTE 1: FOR LANDING AT AN ALS OR ELS, KSC IS TO REMOVE BOTTLES PER OMI V5032 AND RETURN THEM TO KSC LAB FOR PROCESSING ASAP.

NOTE 2: THE SHUTTLE PROCESSING CONTRACTOR WILL INSTALL TWO SAMPLING UNITS AT THE PAD PER OMI V5029, AND REMOVE UNITS AT THE OPF PER OMI V5032 AFTER FERRY FROM DFRC.

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	REPORT	9	14 WD	DIST. BY TOM SCHEHL

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-NE-M7 I-USK-385 USK-380

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/07/89
RESPONSE:

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5410 - LABORATORY - CHEMICAL AND PHYSICAL ANALYSIS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 225784
ITEM NUMBER: T2K

RESPONSE TRACKING: Z2869

[PRD] DATABASE RECORD: 238813 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/07/88
INITIAL DATE: 03/07/88
ITEM NUMBER: K3Z DATE LAST CHANGED: 12/06/06
SECTION: 5410 TIME LAST CHANGED: 08:57:52

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 R109-15 R2686 SCRUB06
PRIORITY: MANDATORY
RATIONALE: SAFETY - REQUIRED FOR WSSH LANDING SUPPORT.

1. DESCRIPTION: SAMPLE ANALYSIS, HYPERGOLIC VAPOR/FLUID SCRUBBER LIQUORS AT WHITE SANDS SPACE HARBOR

ANALYZE SCRUBBER LIQUORS AS FOLLOWS:
A. OXIDIZER - SULFITE ION 2.1% OR GREATER
B. FUEL - PH 1.0 - 2.5

SAMPLING TIMES - 2 TO 3 DAYS PRIOR TO LANDING. 2 TO 3 DAYS AFTER ORBITER DEPARTS. ALSO, DURING ORBITER DESERVICE, IF REQUIRED. TURNAROUND ONLY.

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	REPORT	1	NRT	KSC/SE REP ON SITE

TECH CONTACT: KSC/LOUIE GARCIA/PH-L/321 867-6196
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/25/88

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5410 - LABORATORY - CHEMICAL AND PHYSICAL ANALYSIS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 238813
ITEM NUMBER: K3Z

RESPONSE TRACKING: Z26173 Z2726

[PRD] DATABASE RECORD: 289573 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/25/91
INITIAL DATE: 05/18/89
ITEM NUMBER: K5E DATE LAST CHANGED: 12/06/06
SECTION: 5410 TIME LAST CHANGED: 08:59:04

REQUESTER: KSC
SUBREQUESTER: NE-M USK-221
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 R109-15 R2809 R2829
R4210
PRIORITY: MANDATORY
RATIONALE: SAFETY - REQUIRED FOR DFRC LANDING SUPPORT.

1. DESCRIPTION: SAMPLE ANALYSIS AT DFRC

IN THE EVENT OF CONTINGENCY REQUIRING HYPERGOL OFFLOADING AND BY REQUEST FOR SAMPLING. DECONTAMINATED SAMPLE CONTAINERS TO BE RETURNED TO USA AT DFRC. SAMPLE TO SPEC SE-S-0073.

A. PROPELLANT, MONOMETHYLHYDRAZINE

CHARACTERISTIC	REQUIREMENT AS DELIVERED TO INTERFACE	NOTE
MONOMETHYL-	98.0 PERCENT BY WEIGHT	THERE WILL BE TWO BACKUP SAMPLES FOR A TOTAL OF FOUR SAMPLES. SAMPLE ANALYSIS CAN BE DONE AT CONVENIENCE OF ANALYSIS LAB
DENSITY AT 77 DEGREE F (25 DEGREE C)	DETERMINE FOR ENGIN- EERING INFORMATION ONLY.	REQUIRED FOR OMI V1070, APPROX- IMATELY 2-3 DAYS

CONTINUED

[PRD] DATABASE RECORD: 289573
ITEM NUMBER: K5E

		AFTER LANDING. TECHNICAL CONTACT: GREG GRZEMPA/USK-221/ 321 861-4946. USA DFRC CONTACT/984-8128
WATER PLUS SOLUBLE IMPURITIES	2.0 PERCENT BY WEIGHT (MAX.)	
FREON	CONTENT IN PPM	
TIN (SN)	CONTENT IN PPM	
CHLORIDES NVR	BY WEIGHT PPM	

B. PROPELLANT, NITROGEN TETROXIDE

CHARACTERISTIC	REQUIREMENT AS DELIVERED TO INTERFACE	NOTE
NITROGEN TETROXIDE ASSAY (N204)	97.0 PERCENT BY WEIGHT (MIN.)	THERE WILL BE TWO PRIMARY AND TWO BACKUP SAMPLES. IRON NITRATE ANALYSIS TO BE PERFORMED AS SOON AS
NITRIC OXIDE ASSAY (NO)*	1.5 (MIN.) TO 3.0 (MAX.) PERCENT BY WEIGHT.	PRACTICAL-FIRST WORK SHIFT. REMAINING ANALYSIS MAY BE DONE AT CONVENIENCE OF ANALYSIS LAB. REQUIRED FOR OMI V1070, APPROXIMATELY 2-3 DAYS AFTER LANDING. TECH CONTACT: GREG GRZEMPA/USK-221/ 321 861-4946. USA DFRC CONTACT/ 984-8128
WATER EQUIVALENT	0.20 PERCENT BY WEIGHT (MAX.)	
CHLORIDE CONTENT	0.040 PERCENT BY WEIGHT (MAX.)	
DENSITY	DETERMINE FOR ENGIN-	

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5410 - LABORATORY - CHEMICAL AND PHYSICAL ANALYSIS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 289573
ITEM NUMBER: K5E

EERING INFO ONLY.
NVR PPM
IRON* PPM

*IF IRON SAMPLE IS TAKEN IN A HOKE CYLINDER, IT SHOULD BE REMOVED FROM THE CYLINDER AT PLUS OR MINUS 5 DEGREE F OF THE TEMPERATURE AT WHICH IT WAS TAKEN.

TECH CONTACT: DAVID RUEGG/USK-221/321 861-4949
USA DFRC CONTACT/805 984-8128

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/21/92
RESPONSE TRACKING: Z2822 Z4509

[PRD] DATABASE RECORD: 342215 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K6E DATE LAST CHANGED: 12/06/06
SECTION: 5410 TIME LAST CHANGED: 09:00:01

REQUESTER: KSC
SUBREQUESTER: NE-M USK-221
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 R109-15 R2809 R2829
PRIORITY: MANDATORY
RATIONALE: REQUIRED TO SUPPORT ORBITER SAFING AFTER LANDING AT EAFB.

1. DESCRIPTION: SCRUBBER SOLUTION AT DFRC (CONTINGENCY REQ'MT)

COMMODITY	ANALYSTS	NOTE
OXIDIZER	25 PERCENT NAOH/75 PERCENT WATER PPM OF OXIDIZER IN	ESTIMATE 2-4 ANALYSES OF EACH REQUIRED PER TURN-AROUND. 8 HRS PER DAY/40

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5410 - LABORATORY - CHEMICAL AND PHYSICAL ANALYSIS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 342215
ITEM NUMBER: K6E

SOLUTION PH OF LIQUOR HOURS PER WEEK.

FUEL PPM OF MMH IN SOLUTION
PH OF LIQUOR

TECH CONTACT: DAVID RUEGG/USK-221/321 861-4949
USA DFRC/805 984-8128

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/05/89
RESPONSE TRACKING: Z2822

[PRD] DATABASE RECORD: 345357 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/25/91
INITIAL DATE: 05/18/89
ITEM NUMBER: K7E DATE LAST CHANGED: 12/06/06
SECTION: 5410 TIME LAST CHANGED: 09:01:09

REQUESTER: KSC
SUBREQUESTER: NE-M USK-221
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 R109-15 R2829 R4210
PRIORITY: MANDATORY
RATIONALE: REQUIRED TO SUPPORT ORBITER SAFING AFTER LANDING AT EAFB.

1. DESCRIPTION: WASTE LIQUIDS AT DFRC (FUEL FARM BARREL STORAGE)
- EAFB

COMMODITY	ANALYSTS	NOTE
FREON SOLUTION	PPM N204	ESTIMATE 2 ANALYSIS OF EACH REQUIRED PER TURN-AROUND. 8 HRS PER DAY/40 HRS PER WEEK.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5410 - LABORATORY - CHEMICAL AND PHYSICAL ANALYSIS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 345357
ITEM NUMBER: K7E

ALCOHOL SOLUTION	PPM OF MMH OR HYDRAZINE	ESTIMATE 2 ANALYSIS OF EACH REQUIRED PER TURN-AROUND. 8 HRS PER DAY/40 HRS PER WEEK.
WATER	PPM OF HYDRAZINE	CONTINGENCY ONLY

TECH CONTACT: DAVID RUEGG/USK-221/321 861-4949
USA DFRC CONTACT/805 984-8128

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/05/91
RESPONSE TRACKING: Z2822 Z4215

[PRD] DATABASE RECORD: 6699 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/07/88
INITIAL DATE: 03/07/88
ITEM NUMBER: K9Z DATE LAST CHANGED: 12/06/06
SECTION: 5410 TIME LAST CHANGED: 09:02:59

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 R109-15 R2686 SCRUB06
PRIORITY: REQUIRED
RATIONALE: TERTIARY LANDING SITE BECOMES MANDATORY FOR LANDING AT WSSH.

1. DESCRIPTION: FLUID SAMPLING ANALYSIS AT WSTF

PERFORM ANALYSIS OF KSC PROVIDED SAMPLES UPON REQUEST AND PROVIDE COPIES OF ANALYSIS TO KSC REP ON SITE. TURNAROUND ONLY.

DATA DISPOSITION:

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5410 - LABORATORY - CHEMICAL AND PHYSICAL ANALYSIS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 6699
ITEM NUMBER: K9Z

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	REPORT	1	NRT	KSC/TSM ON SITE

TECH CONTACT: KSC/LOUIE GARCAI/PH-L/321 867-6196
KSC/MIKE KUTA/USK-426/321 861-3890
ROBERT MITCHELL/RC1/505-524-5774

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/01/88
RESPONSE TRACKING: Z26173

[PRD] DATABASE RECORD: 313886 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K10Z DATE LAST CHANGED: 12/06/06
SECTION: 5410 TIME LAST CHANGED: 09:04:14

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 R109-15 R2832 SCURB06
PRIORITY: REQUIRED
RATIONALE: TERTIARY LANDING SITE BECOMES MANDATORY FOR LANDING AT WSSH.

1. DESCRIPTION: NON-DESTRUCTIVE INSPECTION-WSSH

BE PREPARED TO PROVIDE NON-DESTRUCTIVE INSPECTION SUPPORT
FROM EXISTING RESOURCES IF REQUIRED.

TECH CONTACT: KSC/LOUIE GARCIA/PH-L/321 867-6196
KSC/MIKE KUTA/USK-426/321 861-3890
ROBERT MITCHELL/RC1/505 524-5774

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5410 - LABORATORY - CHEMICAL AND PHYSICAL ANALYSIS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 313886
ITEM NUMBER: K10Z

RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/02/89
RESPONSE TRACKING: Z2825

[PRD] DATABASE RECORD: 314238 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K11E DATE LAST CHANGED: 12/06/06
SECTION: 5410 TIME LAST CHANGED: 09:06:12

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 R109-15 R2814 SCRUB06
PRIORITY: REQUIRED
RATIONALE: REQUIRED FOR DFRC LANDING SUPPORT.

1. DESCRIPTION: X-RAY LAB SUPPORT-EAFB

PROVIDE X-RAY LABORATORY SUPPORT AT EAFB AS REQUIRED.

TECH CONTACT: KSC/DEAN SCHAAF/PH-L/321 861-9311
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/19/89
RESPONSE TRACKING: Z2805

[PRD] DATABASE RECORD: 314492 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/21/88
INITIAL DATE: 11/21/88
ITEM NUMBER: K12D DATE LAST CHANGED: 05/31/07
SECTION: 5410 TIME LAST CHANGED: 07:30:22

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5410 - LABORATORY - CHEMICAL AND PHYSICAL ANALYSIS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 314492
ITEM NUMBER: K12D

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DODALS DODELS STSALL
TRACKING NO. DB98 KING2001 L2741 R109-15 SCRUB06
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING SUPPORT OPERATIONS AT DOD ALS/ELS.

1. DESCRIPTION: NON-DESTRUCTIVE INSPECTION AT DOD ALS/ELS

BE PREPARED TO PROVIDE NON-DESTRUCTIVE INSPECTION
SUPPORT WITHIN CAPABILITIES, IF REQUIRED.

TECH CONTACT: KSC/TIM O'BRIEN/321 861-9303
KSC/MIKE KUTA/USK-426/321 861-3890
(D)HSFS-0/321-494-5116

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/21/88
RESPONSE TRACKING: Z2756

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5430 - LABORATORY - CALIBRATION

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 362282 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/29/93
INITIAL DATE: 05/18/89
ITEM NUMBER: K1X DATE LAST CHANGED: 03/22/07
SECTION: 5430 TIME LAST CHANGED: 09:02:13

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 R109-17 R2826 SCRUB06
PRIORITY: REQUIRED
RATIONALE: LANDING SUPPORT AT EAFB.

1. DESCRIPTION: CALIBRATION SERVICES AT DFRC

PROVIDE PERIODIC CALIBRATION FOR O-200 PSIA
HEISE GAUGE.

TECH CONTACT: KSC/DEAN SCHAAF/PH-L/321 861-9311
KSC/MIKE KUTA/USK-426/321-861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/30/89
RESPONSE TRACKING: Z2814

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5440 - LABORATORY - TECHNICAL SHOPS AND LABS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 289286 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K1X DATE LAST CHANGED: 03/22/07
SECTION: 5440 TIME LAST CHANGED: 09:02:45

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 R109-26 R2826 SCRUB06
PRIORITY: REQUIRED
RATIONALE: LANDING SUPPORT AT DFRC.

1. DESCRIPTION: SHOP SUPPORT-DFRC

MACHINE, SHEET METAL, WELDING, FLUID SYSTEMS, PAINT, ELECTRICAL AND ELECTRONIC SHOP AT DFRC. TOTAL WORKLOAD FOR ALL SHOPS IS ESTIMATED TO BE NO MORE THAN EIGHT HOURS PER WEEK.

TECH CONTACT: KSC/DEAN SCHAAF/PH-L/321 861-9311
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/30/89
RESPONSE TRACKING: Z2814

[PRD] DATABASE RECORD: 289530 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K2Z DATE LAST CHANGED: 12/06/06
SECTION: 5440 TIME LAST CHANGED: 09:17:15

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 R109-26 R2832 SCRUB06
PRIORITY: REQUIRED
RATIONALE: LANDING SUPPORT AT WSSH.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5440 - LABORATORY - TECHNICAL SHOPS AND LABS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 289530
ITEM NUMBER: K2Z

1. DESCRIPTION: SHOP SUPPORT-WSSH

REQUIRED FOR SHUTTLE GROUND OPERATIONS INCLUDING MACHINE, SHEET METAL, WELDING, FLUID SYSTEMS, PAINT, ELECTRICAL, AND ELECTRONIC SHOP.

TECH CONTACT: KSC/LOUIE GARCIA/PH-L/321 867-6196
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/02/89
RESPONSE TRACKING: Z26146 Z2825

[PRD] DATABASE RECORD: 289817 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/21/88
INITIAL DATE: 11/21/88
ITEM NUMBER: K3D DATE LAST CHANGED: 05/30/07
SECTION: 5440 TIME LAST CHANGED: 10:33:17

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DODALS DODELS STSALL
TRACKING NO. DB98 KING2001 L2741 R109-26 SCRUB06
PRIORITY: REQUIRED
RATIONALE: LANDING SUPPORT AT ALS/ELS

1. DESCRIPTION: SHOP SUPPORT AT DOD ALS/ELS

PROVIDE AVAILABLE RESOURCES FROM MACHINE, SHEET METAL, WELDING, FLUID SYSTEMS, PAINT, ELECTRICAL AND ELECTRONIC SHOPS ON A NONINTERFERANCE BASIS WITH PRIMARY MISSION.

TECH CONTACT: KSC/TIM O'BRIEN/PH-L/321 861-9303
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/21/88

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5440 - LABORATORY - TECHNICAL SHOPS AND LABS

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 289817
ITEM NUMBER: K3D

RESPONSE TRACKING: Z2756

[PRD] DATABASE RECORD: 591157 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/23/07
INITIAL DATE: 03/23/07
ITEM NUMBER: K4Z DATE LAST CHANGED: 04/02/07
SECTION: 5440 TIME LAST CHANGED: 09:04:18

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L KSC/UB-C4
TEST CODE:

ASSOCIATED DOC: 20027S
TRACKING NO. R0703-5 R0704-1

1. DESCRIPTION: LABORATORY SPACE AND EQUIPMENT

PROVIDE LABORATORY SPACE AND EQUIPMENT FOR USE BY SHUTTLE PAYLOAD EXPERIMENTERS. MISSION SPECIFIC LABORATORY REQUIREMENTS WILL BE REQUESTED BY THE EXPERIMENTER TO NASA KSC PAYLOADS THROUGH THE PAYLOAD PRD SYSTEM. NASA KSC PAYLOADS WILL COORDINATE WITH NASA WSSH AIRFIELD SUPPORT COORDINATOR THE AVAILABILITY OF THE REQUESTED ITEMS AND NASA KSC PAYLOADS WILL RESPOND TO THE PAYLOAD PRD ITEM ACCORDINGLY.

TECH CONTACT: WSTF/ROBERT MITCHELL/505 524-5774
KSC/LOU GARCIA/321 867-6196
KSC/JIM HALL/321 867-6218

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/26/07

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5500 - MAINTENANCE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 247765 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/26/88
INITIAL DATE: 08/26/88
ITEM NUMBER: K1X DATE LAST CHANGED: 03/22/07
SECTION: 5500 TIME LAST CHANGED: 09:03:12

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 L2646 R109-16 SCRUB06
PRIORITY: REQUIRED
RATIONALE: REQUIRED FOR LANIDNG SUPPORT OPERATIONS AT DFRC.

1. DESCRIPTION: DFRC/EAFB SUPPORT

PROVIDE AUTOMOTIVE AND VEHICULAR MAINTENANCE INCLUDING
FUEL AND OIL SERVICES FOR GOVERNMENT-OWNED VEHICLES ASSIGNED
TO THE SHUTTLE PROGRAM.

TECH CONTACT: KSC/DEAN SCHAAF/PH-L/321 861-9311
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/26/88
RESPONSE TRACKING: Z26156

[PRD] DATABASE RECORD: 249028 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K2X DATE LAST CHANGED: 03/22/07
SECTION: 5500 TIME LAST CHANGED: 09:03:40

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 R109-16 R2826 SCRUB06
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING SUPPORT OPERATIONS AT DFRC.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5500 - MAINTENANCE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 249028
ITEM NUMBER: K2X

1. DESCRIPTION: DFRC/EAFB SUPPORT

PROVIDE MAINTENANCE OF ORBITER CHECKOUT FACILITIES, OFFICE SPACE
AND FACILITY AND EQUIPMENT MODIFICATIONS.

TECH CONTACT: KSC/DEAN SCHAAF/PH-L/321 861-9311
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/30/89
RESPONSE TRACKING: Z2814

[PRD] DATABASE RECORD: 251480 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/10/94
INITIAL DATE: 06/15/89
ITEM NUMBER: K5X DATE LAST CHANGED: 03/22/07
SECTION: 5500 TIME LAST CHANGED: 09:04:11

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L NE-E1
TEST CODE: DFRC EAFB S0026.200 S0026.300
STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 R109-16 R2831 R6533
SCRUB06 SHAW94
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING SUPPORT OPERATIONS AT DFRC.

1. DESCRIPTION: DFRC/EAFB SUPPORT

PROVIDE, OPERATE AND MAINTAIN PORTABLE GENERATORS
IN SUPPORT OF MSBLS OPERATIONS AT EAFB.

TECH CONTACT: KSC/JOHN KIRIAZES/NE-E1/321 861-3700
KSC/DEAN SCHAAF/PH-L/321-861-9302

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)

CONTINUED

[PRD] DATABASE RECORD: 251480
ITEM NUMBER: K5X

SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/11/94
RESPONSE TRACKING: Z2824 Z6525

[PRD] DATABASE RECORD: 188441 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K6D DATE LAST CHANGED: 05/30/07
SECTION: 5500 TIME LAST CHANGED: 10:33:10

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DODALS DODELS STSALL
TRACKING NO. DB98 KING2001 R109-16 R2848 SCRUB06
PRIORITY: REQUIRED
RATIONALE: REQUIRED FOR LANDING SUPPORT OPERATIONS AT DOD ALS/ELS.

1. DESCRIPTION: PROVIDE AUTOMOTIVE AND VEHICULAR MAINTENANCE INCLUDING FUEL AND OIL SERVICES FOR GOVERNMENT OWNED-VEHICLES PROVIDED LOCALLY TO SUPPORT ORBITER TURNAROUND OPERATIONS AT A DOD ALS/ELS.

TECH CONTACT: KSC/TIM O'BRIEN/PH-L/321 861-9303
KSC/MIKE KUTA/USK-426/321 861-3890
(D)DDMS-0/321-494-5116

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/12/89
RESPONSE TRACKING: Z2840

[PRD] DATABASE RECORD: 191934 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K7D DATE LAST CHANGED: 05/30/07
SECTION: 5500 TIME LAST CHANGED: 10:33:10

REQUESTER: KSC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5500 - MAINTENANCE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 191934
ITEM NUMBER: K7D

SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DODALS DODELS STSALL
TRACKING NO. DB98 KING2001 R109-16 R2848 SCRUB06
PRIORITY: REQUIRED
RATIONALE: REQUIRED FOR LANDING SUPPORT OPERATIONS AT DOD ALS/ELS.

1. DESCRIPTION: PROVIDE MAINTENANCE OF FACILITIES ASSIGNED
TO NASA AT A DOD ALS/ELS.

TECH CONTACT: KSC/TIM O'BRIEN/PH-L/321 861-9303
KSC/MIKE KUTA/USK-426/321 861-3890
(D)DDMS-0/321-494-5116

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/12/89
RESPONSE TRACKING: Z2840

[PRD] DATABASE RECORD: 192445 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/28/90
INITIAL DATE: 03/28/90
ITEM NUMBER: K8X DATE LAST CHANGED: 03/22/07
SECTION: 5500 TIME LAST CHANGED: 09:04:39

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL
TRACKING NO. DB98 KING2001 L3125 R109-16 SCRUB06
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING SUPPORT OPERATIONS AT EAFB.

1. DESCRIPTION: PROVIDE MAINTENANCE OF SELECTED ITEMS OF GSE AT
DFRC AS DEFINED BY THE ("GSE O+M PLAN FOR THE SLS AT DFRC").
THIS PLAN PARTIALLY IMPLEMENTS THE KSC/DFRC INTERCENTER
AGREEMENT AND CONTAINS INFORMATION NECESSARY FOR DFRC TO BUDGET
RESOURCES REQUIRED.

TECH CONTACT: KSC/DEAN SCHAAF/PH-L/321 861-9311
KSC/MIKE KUTA/USK-425/321 861-3890

CONTINUED

[PRD] DATABASE RECORD: 192445
ITEM NUMBER: K8X

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/28/90
RESPONSE TRACKING: Z3155

[PRD] DATABASE RECORD: 193454 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/19/89
INITIAL DATE: 05/19/89
ITEM NUMBER: K9E DATE LAST CHANGED: 12/06/06
SECTION: 5500 TIME LAST CHANGED: 09:31:44

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 R109-16 R2824 SCRUB06
PRIORITY: REQUIRED
RATIONALE: CONTINGENCY SUPPORT

1. DESCRIPTION: PROVIDE CONTINGENCY SUPPORT FROM THE AFFTC TIRE, WHEEL AND BRAKE SHOP IF REQUIRED TO SUPPORT ORBITER POST-LANDING OPERATIONS. NO PREPLANNED USE OF THIS SHOP IS REQUIRED.

TECH CONTACT: KSC/DEAN SCHAAF/PH-L/321 861-9311
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/18/89
RESPONSE TRACKING: Z2805

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5500 - MAINTENANCE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 195090 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K10Z DATE LAST CHANGED: 12/06/06
SECTION: 5500 TIME LAST CHANGED: 09:32:43

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 R109-16 R2832 SCRUB06
PRIORITY: REQUIRED
RATIONALE: TERTIARY LANDING SITE BECOMES MANDATORY FOR LANDING AT WSSH.

1. DESCRIPTION: PROVIDE AUTOMOTIVE AND VEHICULAR MAINTENANCE FOR GOVERNMENT-OWNED VEHICLES USED AT WHITE SANDS SPACE HARBOR BY THE GROUND OPERATIONS TEAM AFTER A DECISION IS MADE TO LAND AT WSSH.

TECH CONTACT: KSC/LOUIE GARCIA/PH-L/321 867-6196
KSC/MIKE KUTA/USK-426/321 861-3890
ROBERT MITCHELL/RC1/505-524-5774

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/02/89
RESPONSE TRACKING: Z2825

[PRD] DATABASE RECORD: 196533 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K11Z DATE LAST CHANGED: 12/06/06
SECTION: 5500 TIME LAST CHANGED: 09:33:59

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 R109-16 R2832 SCRUB06
PRIORITY: REQUIRED
RATIONALE: TERTIARY LANDING SITE BECOMES MANDATORY FOR LANDING AT

CONTINUED

[PRD] DATABASE RECORD: 196533
ITEM NUMBER: K11Z

WSSH.

1. DESCRIPTION: PROVIDE MAINTENANCE OF SHUTTLE FACILITIES AT WHITE SANDS SPACE HARBOR AS REQUESTED. MAINTENANCE SUPPORT OF EQUIPMENT LEFT ON SITE SHOULD BE IN ACCORDANCE WITH THE KSC MAINTENANCE PLAN.

TECH CONTACT: KSC/LOUIE GARCIA/PH-L/321 867-6196
KSC/MIKE KUTA/USK-426/321 861-3890
ROBERT MITCHELL/RC1/505-524-5774

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/02/89
RESPONSE TRACKING: Z2825

[PRD] DATABASE RECORD: 345949 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K12X DATE LAST CHANGED: 03/22/07
SECTION: 5500 TIME LAST CHANGED: 09:05:10

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 R109-16 R2826 SCRUB06
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING SUPPORT OPERATIONS AT EAFB.

1. DESCRIPTION: OPERATIONS AND MAINTENANCE FOR KSC GSE

PROVIDE O & M SUPPORT AT DFRC FOR KSC GOVERNMENT ITEMS OF GSE REMAINING AT DFRC.

TECH CONTACT: KSC/DEAN SCHAAF/PH-L/321 861-9311
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5500 - MAINTENANCE

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 345949
ITEM NUMBER: K12X

SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/18/89
RESPONSE TRACKING: Z2814

[PRD] DATABASE RECORD: 18662 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/07/05
INITIAL DATE: 05/31/89
ITEM NUMBER: D14K DATE LAST CHANGED: 11/30/06
SECTION: 5500 TIME LAST CHANGED: 12:52:45

REQUESTER: HSFS
SUBREQUESTER: DDMS
TEST CODE: ISTRES MORON STSALL TAL
ZARAGOZA

ASSOCIATED DOC: 20007S 20029S 20057S 20070S
TRACKING NO. KING2001 L114-3 L3849 R109-16 R2825
R6565 SCRUB06
PRIORITY: MANDATORY
RATIONALE: BALLOON SUPPORT, REQUIRED FOR DoD TO PROVIDE UPPER AIR DATA FOR SPACE SHUTTLE APPROACH AND LANDING.

1. DESCRIPTION: UPPER AIR OBSERVATIONS - TAL - MAINTENANCE SUPPORT

REQUEST KSC PROVIDE ELECTRONIC/ COMMUNICATIONS TECHNICIAN SUPPORT BY ON SITE "NAVIGATIONAL AIDS" SECTION PERSONNEL FOR MINOR MAINTENANCE (WITHIN CAPABILITY). REQUIRED ON TASS EQUIPMENT AT TAL SITES. DDMS WEATHER PERSONNEL WILL REQUEST ASSISTANCE THROUGH THE DDMS LNO.

LOCATION: MORON, ZARAGOZA, ISTRES

NOTE: REFERENCE LLS SECT. 3230, ITEM T24DK, DBR 013036.

TECH CONTACT: DDMS-O/321 494-5116
GLEN LOCKWOOD/PH-L/321-861-9310

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2 PH-L USK-116

CONTINUED

[PRD] DATABASE RECORD: 18662
ITEM NUMBER: D14K

USK-426

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/07/05
RESPONSE TRACKING: Z2819 Z6556

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5600 - FACILITIES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD:	198383	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	LLS	APPROVAL DATE:	01/31/02
		INITIAL DATE:	07/20/89
ITEM NUMBER:	T1K	DATE LAST CHANGED:	12/21/06
SECTION:	5600	TIME LAST CHANGED:	14:29:05

REQUESTER: JSC
SUBREQUESTER: JSC/CA
TEST CODE: DFRC KSC S0026.100 S0026.200
S0026.300 S51I01 STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. KING2001 L02-1-2 L03-1-1 R110-1 R2895
PRIORITY: MANDATORY
RATIONALE: CREW SUPPORT

1. DESCRIPTION: BASE SUPPORT AT KSC

JSC WILL PROVIDE KSC WITH REQUIREMENTS FOR THE BASE SUPPORT OF FLIGHT CREWS DURING PERIODS PRIOR TO LAUNCH AND AFTER LANDING ROLLOUT. JSC WILL ALSO PROVIDE PERSONNEL TO MANAGE THE FLIGHT CREW OPERATIONS AND COORDINATE WITH KSC PERSONNEL REGARDING BASE SUPPORT. KSC IS REQUIRED TO PROVIDE AND MAINTAIN NECESSARY BASE SUPPORT FACILITIES AND ASSOCIATED EQUIPMENT AND SERVICES FOR FLIGHT CREWS AND SUPPORT PERSONNEL, INCLUDING THE FOLLOWING SPECIFICALLY IDENTIFIED BASE SUPPORT REQUIREMENTS:

1. OFFICE SPACE AND CONFERENCE FACILITIES - O&C BUILDING.
   A. OFFICE SPACE ADEQUATE TO ACCOMMODATE SEVEN DESKS IS REQUIRED FOR FLIGHT CREWS.
   B. A VIEDO TELECONFERENCE FACILITY CAPABLE OF HANDLING EIGHTEEN PEOPLE.
   C. A PRIVATE OFFICE FOR THE FOD MANAGER IS REQUIRED.
   D. AN OFFICE AREA ADJOINING THE CREW QUARTERS FOR THE 3 FOD MANAGER'S REPRESENTATIVE IS REQUIRED.
   E. AN OFFICE AREA ADJOINING THE CREW QUARTERS FOR THE RESIDENT PERSONNEL SUPPORTING FLIGHT CREW OPERATIONS IS REQUIRED (ASSUME 2 ADMINISTRATORS, AND 1 PART-TIME VOLUNTEER/SECRETARY)
   F. AN OFFICE/STORAGE AREA OF APPROXIMATELY 1,000 SQ. FT. ADJOINING THE FLIGHTCREW QUARTERS IN THE O&C BLDG.,ROOM 3281, 3285/3287 THE AREA IS REQUIRED FOR VEHICLE INTEGRATION TEST TEAM PERSONNEL, SUIT TECHNICIANS, TDY FCOD AND MOD PERSONNEL SUPPORTING KSC TURNAROUND, PRELAUNCH AND POST-LANDING OPERATIONS. THE AREA MUST HAVE LOCKABLE STORAGE CAPABILITY FOR FLIGHTCREW EQUIPMENT.

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THE AREA MUST BE SUBDIVIDED TO SUPPORT THE FOLLOWING FUNCTIONS IN RELATION TO FLIGHT CREW OPERATIONS:

(1) UTILITY TYPE ROOM
W/CLOTHES WASHER
W/CLOTHES DRYER

(2) COMMUNICATIONS TYPE ROOM
W/DATAFAX MACHINE
W/REPRODUCTION

(3) ADMINISTRATIVE OFFICES
W/DESKS
W/CHAIRS
W/TABLES
W/BOOKCASES
W/FILE CABINETS

(4) STORAGE CAPABILITY FOR FLIGHTCREW EQUIPMENT(LOCKABLE).
W/ADMINISTRATIVE TELEPHONES W/ CAPABILITY

2. SLEEPING PROVISIONS (KSC IS REQUESTED TO IDENTIFY A POINT-OF-CONTACT IN CHARGE OF FLIGHT CREW QUARTERS AT KSC)
   A. 23 BEDROOMS FOR (11) CREW PERSONS (3) JSC MANAGEMENT AND (2) FLIGHT SURGEONS.
   B. MAID/MEAL SERVICE FOR MAINTENANCE AND MEALS IN QUARTERS AREA DURING NORMAL OPERATIONS.
   C. A PRIVATE MEDICAL EXAM ROOM EQUIPPED WITH TELEPHONE AND THE CAPABILITY FOR CONDUCTING MEDICAL EXAMINATIONS ON CREW MEMBERS (IN ACCORDANCE WITH JSC-11853 AND JSC-13956 DOCUMENTS).
3. FOOD SERVICING
   A. KITCHEN AND DINING FACILITIES LARGE ENOUGH TO ACCOMMODATE TWENTY-FIVE PEOPLE MAX. W/ THE AVERAGE BEING SEVEN PEOPLE.
   B. ALL MEALS, DURING MAJOR OPERATIONS (I.E., TCDT, LAUNCH & LANDING),

   WILL BE FURNISHED AND PREPARED IN THE CREW QUARTERS KITCHEN BY JSC PERSONNEL.
4. COMMUNICATIONS
   ADEQUATE TELEPHONE AND VIDEO TELECONFERENCE SERVICE IS REQUIRED TO SUPPORT CREW OPERATIONS.
   A. PROVIDE TWO (2) CLOSED CIRCUIT COLOR TV UNITS IN THE CONFERENCE ROOM AND ONE (1) IN THE DINING ROOM.
5. SUIT ROOM (THE FOLLOWING ARE CONSIDERED MINIMUM REQUIREMENTS

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[PRD] DATABASE RECORD: 198383
ITEM NUMBER: T1K

FOR FACILITY AND TEST EQUIPMENT FOR LAUNCH SUPPORT SITE HANDLING OF EJECTION ESCAPE SUITS.)

A. A ROOM OR TEMPORARY TRAILER, 12' x 20' (WITH CONTROLLED ACCESS), FOR EJECTION ESCAPE SUIT (EES) PREFLIGHT CHECKOUT/PRE-INSERTION PRESSURE CHECKS.
B. SEVEN LAY-OUT TABLES FOR SUIT TESTING.
C. AN O2 SOURCE FOR SUIT TESTING.
D. COMPRESSED CLEAN AIR FOR SUIT VENTILATION.
E. BONDED STORAGE FOR CONTROLLED HARDWARE STORAGE.

6. FLIGHT CREW PERSONAL ITEM STORAGE AREA - A SECURE AREA SUITABLE FOR STORING THE PERSONAL ITEMS OF VARIOUS FLIGHT CREWS.
7. OFFICE SPACE - LOCATED IN THE LCC AND SSPF.
   A. LEAD VEHICLE INTEGRATION ENGINEER - 120 SQUARE FEET
   B. FLIGHT CREW MEMBERS (3) - 200 SQUARE FEET
   C. VEHICLE SYSTEMS INTEGRATION ENGINEERS (9) - 250 SQUARE FEET
      (1) TWO CREDENZAS
      (2) TWO TABLES
      (3) FOUR - THREE-SECTION BOOK CASES WITH TOP AND BOTTOM FOR EACH BOOKCASE
      (4) ONE ODIN TELEPHONE AND COMPUTER SEAT PER EACH VITO PERSONNEL.
      (5) TWO - FOUR DRAWER FILING CABINETS
      (6) TWO METAL CABINETS - 18 INCH x 36 INCH x 72 INCH
      (7) ELEVEN DESK CHAIRS
      (8) EIGHT TABLE CHAIRS
      (9) NINE TELEPHONES WITH ONE LINE EACH
         A. ALL TELEPHONES WITH SPEAKER PHONE CAPABILITY IN LEAD VEHICLE INTEGRATION ENGINEER'S OFFICE.
         B. THREE PHONES IN FLIGHT CREW OFFICE.
         C. ONE PHONE IN INTEGRATION ENGINEER OFFICE. IN ADDITION, AN OIS COMMUNICATION BOX WITH SPEAKER BOX IS REQUIRED IN ENGINEER'S OFFICE.
8. FLIGHT DATA FILE FACILITIES - PROVIDE THE FOLLOWING OFFICE CAPABILITY IN NEAR PROXIMITY TO THE O&C BLDG. (M7-355 BONDED STORES):
   A. ONE ROOM OR PARTITIONED AREA, APPROXIMATELY 150 SQUARE FEET IN SIZE, ISOLATED FROM SURROUNDING OFFICE ACTIVITIES FOR DOD MISSIONS. THIS ROOM MUST BE WITHIN AN AREA CLEARED FOR SECURE OPERATIONS AT THE SECRET LEVEL.

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[PRD] DATABASE RECORD: 198383
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B. ONE DESK, THREE CHAIRS, TWO DESK-SIZE TABLES AND A STORAGE CABINET; THE CABINET MUST BE LOCKABLE.
C. ACCESS TO AT LEAST ONE, 120 VAC ELECTRICAL OUTLET.
D. ACCESS TO A HIGH QUALITY COPIER USING FLIGHT QUALIFIED TONER (XEROX 3600/7000 OR EQUIVALENT).
E. PROVIDE A RAPIFAX, OR COMPARIBLE DATA TRANSMISSION SYSTEM IN O&C Rm. 3281. FOR DOD MISSIONS, THE SECURE RAPIFAX, LOCATED IN THE HEADQUARTERS BUILDING IS SATISFACTORY. THIS UNIT MUST BE AVAILABLE 24 HRS/DAY, 7 DAYS/WEEK, STARTING TWO DAYS PRIOR TO THE TCDT AND FIVE DAYS PRIOR TO LAUNCH COUNTDOWN. FLIGHT DATA FILE PERSONNEL MUST HAVE OPERATIONAL ACCESS TO THE RAPIFAX; NO DEDICATED OPERATORS ARE NECESSARY OR DESIRABLE. REQUIRES SECURE PHONE REF. LLS SECT. 2780, ITEM T90K, DBR 245760.
F. A TWO-DRAWER FILE CABINET QUALIFIED FOR STORING SECRET-LEVEL MATERIAL.
G. A SECURE TELEPHONE SYSTEM ABLE TO ACCESS THE JSC CLASSIFIED DATA PREPARATION AREA IN BUILDING 4, THE SPACE DIVISION IN LOS ANGELES, THE SATELLITE CONTROL FACILITY IN SUNNYVALE, CA., THE VANDENBERG FDF ROOM AND THE JSC CREW ACTIVITY PLANNING ROOM IN THE JSC MCC. DIAL UP CAPABILITY IS SATISFACTORY.
H. A NON-SECURE TELEPHONE SYSTEM WITH TWO INDEPENDENT ROTATING STYLE LINES AND 2 SEPERATE INSTRUMENTS WITH CAPABILITY.

KSC TECH CONTACT: LAUREN LUNDE/TA-E-A/321 483-0572

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: TA-E-A

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/06/02
RESPONSE TRACKING: Z2895

[PRD] DATABASE RECORD: 16283 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/21/95
INITIAL DATE: 10/17/88
ITEM NUMBER: T3X DATE LAST CHANGED: 03/22/07
SECTION: 5600 TIME LAST CHANGED: 09:06:01

REQUESTER: JSC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5600 - FACILITIES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 16283
ITEM NUMBER: T3X

SUBREQUESTER: JSC/CA4 JSC/CC5 JSC/MG
TEST CODE: EAFB LANDNG STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. KING2001 L02-5-2 L2661 L507-5 R109-48
R2718 SCRUB06 SHAW95

1. DESCRIPTION: BASE SUPPORT AT DFRC
   1. ASTRONAUT SUPPORT (ASTRO TRAILER)
      A. FOUR (4) BEDROOMS COMPLETE WITH BEDS, NIGHT STANDS, DRESSERS, 1 CHAIR PER BEDROOM, ALARM CLOCKS.
      B. MISCELLANEOUS REQUIRED EQUIPMENT: DRINKING FOUNTAIN, REFRIGERATOR LAVATORIES, SHOWERS, TOWEL AND SUPPLIES LOCKER AND MICROWAVE OVEN.
      C. CONFERENCE ROOM WITH A 3X3 FOOT TABLE, 1 DESK, 1 COUCH, AND 6 CHAIRS.
      D. TELECOMMUNICATIONS EQUIPMENT PLACED AS FOLLOWS:
         1) FOUR (4) TELEPHONES - 1 LINE PER ANY 2 BEDROOMS.
         2) ONE (1) SPEAKER PHONE IN CONFERENCE ROOM WITH PICKUP, TRANSFER, AND INTERCOM CAPABILITIES TO THE VITT AND PILOT'S TRAILERS.
         3) ONE (1) TELEPHONE IN CONFERENCE ROOM.
         4) ONE (1) COLOR TV WITH NASA SELECT, MISSION AUDIO, AND A COMMERCIAL ANTENNA.
         5) SPEAKER BOX WITH A/G, FD, AND PAO LOOPS HARDWIRED.
         6) PROGRAMMABLE SCANNER TO RECEIVE CONVOY COMMUNICATIONS.
   2. ASTRONAUT FAMILY SUPPORT
      A. TRANSPORTATION TO AND FROM DFRC AND THEIR MOTEL.
      B. TRANSPORTATION TO AND FROM THE FLIGHT LINE AREA TO THE VIEWING AREA.
      C. A DESIGNATED AREA FOR FAMILIES TO WAIT DURING FLIGHT CREW POSTLANDING ACTIVITIES NEAR THE ASTRO TRAILER.
   3. FLIGHT CREW SUPPORT PERSONNEL (VITT TRAILER)
      A. FACILITIES NEXT TO ASTRO TRAILER NEAR FLIGHT LINE (TRAILER ACCEPTABLE).
      B. OFFICE SPACE WITH 2 DESKS, 1 TABLE, 5 CHAIRS.
      C. 24 HOUR ACCESS TO FACSIMILE EQUIPMENT DURING MISSION CRITICAL PHASES.
      D. CONFERENCE ROOM EQUIPPED WITH A 3X3 FOOT TABLE, 6 CHAIRS, AND

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[PRD] DATABASE RECORD: 16283
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A COUCH.

E. 2 BEDROOMS COMPLETE WITH BEDS, NIGHT STANDS, DRESSERS, ONE CHAIR AND PHONE PER BEDROOM.

F. TELECOMMUNICATIONS EQUIPMENT TO INCLUDE THE FOLLOWING:
   1) ONE (1) COLOR TV WITH NASA SELECT, MISSION AUDIO, AND A COMMERCIAL ANTENNA.
   2) SPEAKER BOX WITH A/G, FD, AND PAO LOOPS HARDWIRED.
   3) TWO (2) TELEPHONES (WITH SEPARATE LINES, ONE WITH SPEAKER CAPABILITY); ALL TELEPHONES SHOULD HAVE PICKUP, TRANSFER, AND INTERCOM CAPABILITIES WITH ASTRO TRAILER AND PILOT'S TRAILER.
   4) ONE (1) SPEAKER PHONE IN CONFERENCE ROOM WITH PICKUP, TRANSFER, AND INTERCOM CAPABILITIES TO THE ASTRO AND PILOT TRAILERS.
   5) VHF RADIO WITH TRANSMIT AND RECEIVE CAPABILITIES.

G. MISCELLANEOUS REQUIRED EQUIPMENT: DRINKING FOUNTAIN, REFRIGERATOR LAVATORY, SHOWER, 10 PLACE HELMET AND PARACHUTE STORAGE RACK, AND MICROWAVE OVEN.

4. AIRCRAFT AND PILOT SUPPORT - T-38, STA, AND SCA

A. STA PARKING AREA: 100 FT X 100 FT AREA IN HANGAR AS REQUIRED FOR MAINTENANCE, RAMP SPACE FOR NOMINAL DEPLOYMENT OF TWO STA'S (THREE MAXIMUM DURING LANDING OPERATIONS).

B. PARKING AREAS WILL BE ALSO REQUIRED FOR TWO T-38'S, THE SCA, ONE ADMINSTRATIVE AIRCRAFT (G159), TWO TUGS, ONE MD-3 (OR EQUIVALENT), AND ONE AIRSTART VEHICLE.

C. AIRCRAFT MECHANICS WORK AREA WITH 2 STANDARD SIZE WORK BENCHES WITH ELECTRICAL POWER (115V, 60 HZ IN A 300 SQ FT AREA).

D. 1000 SQ FT STORAGE SPACE FOR AIRCRAFT SPARES AND EQUIPMENT SHOULD BE IN LOCAL AREA OF HANGAR).

E. FACILITIES SHOULD BE NEXT TO FLIGHT LINE AS CLOSE AS POSSIBLE TO ASTRO TRAILER.

F. IF 3 STA'S ARE PRESENT, ADEQUATE SECURITY MUST BE PROVIDED TO SATISFY THE REQUIREMENTS OF THE NSTS NATIONAL RESOURCE PROTECTION PLAN.

5. FLIGHT FREQUENCY - SUPPORT AIRCRAFT

A. SCA - FLIGHT APPROXIMATELY ONCE EVERY 30 DAYS, START AND RUN ENGINES EVERY 14 DAYS, AND ORBITER FERRY SUPPORT.

B. STA - APPROXIMATELY 2 TRAINING DAYS PER QUARTER AND LANDING SUPPORT.

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[PRD] DATABASE RECORD: 16283
ITEM NUMBER: T3X

C. T-38 - AS REQUIRED TO SUPPORT LANDING AND TRAINING OPERATIONS.

6. JANITORIAL AND MAID SERVICE
   A. REQUIRED DAILY WHEN OPERATIONAL; I.E., TO SUPPORT STA AND SHUTTLE ACTIVITIES.
   B. MISCELLANEOUS SUPPLIES FOR ALL ASTRONAUT SUPPORT FACILITIES SHALL INCLUDE, BUT ARE NOT LIMITED TO: SHEETS, BEDDING, PILLOWS, PILLOWCASES, TOWELS, WASHCLOTHS, AND SOAP.
   C. HYGIENE SUPPLIES FOR THE FLIGHT CREW SLEEPING FACILITIES SHALL INCLUDE, BUT ARE NOT LIMITED TO: COMBS, TOOTHBRUSHES, TOOTHPASTE, RAZORS, SOAP, SHAMPOO, SHAVING CREAM.

NOTE 1: ALL FACILITIES DESCRIBED SHOULD BE LOCATED IN THE DRYDEN FLIGHT LINE AREA AS CLOSE AS POSSIBLE TO THE STA AND T-38 STAGING AREA AND THE DISPENSARY. ALL EXTERNAL EXTRANCES SHOULD BE SECURED WITH A LOCKING SYSTEM.

NOTE 2: THE NASA, JSC FLIGHT CREW OPERATIONS DIRECTORATE REPRESENTATIVE (VITT) SHALL ESTABLISH ACCESS TO THESE FACILITIES FOR JSC PERSONNEL.

TECHNICAL CONTACT: ROBERT HANLEY/CA4/281 244-8654
DFRC/GEORGE GRIMSHAW/661-276-3425
KSC/DEAN SCHAAF/PH-L/321 861-9311

COORDINATION: JSC/CC521/KENNETH BAKER/281 244-9766

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/10/96
RESPONSE TRACKING: Z2712 Z7503

[PRD] DATABASE RECORD: 217102 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K6X DATE LAST CHANGED: 03/22/07
SECTION: 5600 TIME LAST CHANGED: 09:09:01

REQUESTER: KSC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5600 - FACILITIES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 217102
ITEM NUMBER: K6X

SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 R109-48 R2826 SCRUB06
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING SUPPORT OPERATIONS AT EAFB.

1. DESCRIPTION: FACILITIES AT DFRC

PROVIDE THE USE OF THE EXISTING 140-FOOT ANTENNA
TOWER NEAR THE ORBITER HANGAR FOR VHF GROUND RADIO NET
REQUIREMENTS.

TECH CONTACT: KSC/DENNY GAGEN/PH-L/321 861-9301
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/30/89
RESPONSE TRACKING: Z2814

[PRD] DATABASE RECORD: 220277 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K7X DATE LAST CHANGED: 03/22/07
SECTION: 5600 TIME LAST CHANGED: 09:09:29

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 R109-48 R2826 SCRUB06
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING SUPPORT OPERATIONS AT DFRC.

1. DESCRIPTION: FACILITIES AT DFRC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5600 - FACILITIES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 220277
ITEM NUMBER: K7X

PROVIDE THE FOLLOWING FACILITIES INSIDE THE
SHUTTLE PROCESSING AREA AT DFRC:
A. OVER 275 FT FROM THE MDD CENTER:
1. HOOKUPS FOR MOBILE GROUND STATION
(S70-0703 VAN)
2. UNMANNED COMMUNICATION SUPPORT FACILITIES (COMM VAN)
B. OVER 355 FT FROM THE MDD CENTER:
1. SCAPE OFFICE.
2. HOOKUPS FOR KSC-PROVIDED SCAPE OPERATIONS TRAILER
3. OPERATIONAL COMMUNICATION SUPPORT AREA
4. KSC/DFRC SITE MANAGEMENT/ENGINEERING/QUALITY -
1000 SQ.FT. AND 1000 SQ.FT. FOR CARGO OPS PERSONNEL
5. DATA/ENGINEERING/QUALITY/SHOP
MANAGEMENT - 1500 SQ. FT.
6. LATRINES

TECH CONTACT: KSC/DEAN SCHAAF/PH-L/321 861-9311
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/30/89
RESPONSE TRACKING: Z2814

[PRD] DATABASE RECORD: 223502 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/26/88
INITIAL DATE: 08/26/88
ITEM NUMBER: K8X DATE LAST CHANGED: 03/22/07
SECTION: 5600 TIME LAST CHANGED: 09:09:58

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 L2646 R109-48 SCRUB06
PRIORITY: MANDATORY

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5600 - FACILITIES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 223502
ITEM NUMBER: K8X

RATIONALE: REQUIRED FOR LANDING SUPPORT OPERATIONS AT DFRC.

1. DESCRIPTION: FACILITIES AT DFRC

PROVIDE THE FOLLOWING ENVIRONMENTALLY CONTROLLED FACILITIES
AS CLOSE AS PRACTICABLE TO THE SHUTTLE PROCESSING AREA AT DFRC:

A. MEDICAL FIRST AID STATION.
B. OFFICE SPACE AND OPERATIONAL FALLBACK AREA FOR USE
DURING ORBITER TURNAROUND PERIODS IF REQUIRED.
C. 15,000 SQ. FT. ENCLOSED STORAGE SPACE FOR GSE AND
SUPPLIES. (INSIDE AND OUTSIDE STORAGE).

TECH CONTACT: KSC/DEAN SCHAAF/PH-L/321 861-9311
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/26/88
RESPONSE TRACKING: Z26156

[PRD] DATABASE RECORD: 230688 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K9X DATE LAST CHANGED: 03/22/07
SECTION: 5600 TIME LAST CHANGED: 09:10:30

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 R109-48 R2826 SCRUB06
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING SUPPORT OPERATIONS AT EAFB.

1. DESCRIPTION: FACILITIES AT DFRC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5600 - FACILITIES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 230688
ITEM NUMBER: K9X

PROVIDE FACILITIES IN DFRC AREA (A):
INCLUDING THE ORBITER HANGAR, WAREHOUSE, MDD, PROPELLANT
STORAGE AREA AND MODULAR COMPLEX.

TECH CONTACT: KSC/DEAN SCHAAF/PH-L/321 861-9311
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/30/89
RESPONSE TRACKING: Z2814

[PRD] DATABASE RECORD: 231753 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K10X DATE LAST CHANGED: 03/22/07
SECTION: 5600 TIME LAST CHANGED: 09:10:59

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 R109-48 R2826 SCRUB06
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING SUPPORT OPERATIONS AT EAFB.

1. DESCRIPTION: FACILITIES AT DFRC

PROVIDE 400 SQ. FT. OF HEATED AND AIR-CONDITIONED
WORKING SPACE FROM EXISTING RESOURCES AT DFRC FOR USE BY KSC
FLIGHT CREW EQUIPMENT PERSONNEL. AREA WILL BE USED TO PROCESS
EQUIPMENT REMOVED FROM THE ORBITER DURING GROUND OPERATIONS.
THIS AREA SHOULD PROVIDE:

A. ACCESS FOR WHEELED LOCKERS WHICH ARE 42 IN. WIDE x 48 IN. HIGH.
B. SECURITY DURING CLASSIFIED MISSIONS.
C. NEARBY ACCESS TO COPY MACHINE AND PHOTO DARKROOM FACILITY.

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[PRD] DATABASE RECORD: 231753
ITEM NUMBER: K10X

D. NEARBY ACCESS TO 200 SQ. FT. OF ADDITIONAL SECURE STORAGE AREA.
E. LOCAL AND TELEPHONE SERVICE.
F. 2 DESKS, 1 TYPEWRITER, 4 TABLES AND 4 CHAIRS.

TECH CONTACT: KSC/DEAN SCHAAF/PH-L/321 861-9311
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: AOD OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/30/89
RESPONSE TRACKING: Z2654 Z2814

[PRD] DATABASE RECORD: 212173 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K13X DATE LAST CHANGED: 03/22/07
SECTION: 5600 TIME LAST CHANGED: 09:11:26

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 R109-48 R2826 SCRUB06
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING SUPPORT OPERATIONS AT EAFB.

1. DESCRIPTION: FACILITIES AT DFRC

PROVIDE AREA FOR LAIR MIXING (LO2, LN2) WITH ADEQUATE SAFETY/ELECTRICAL GROUNDING FACILITIES. REQUIRED FOR EACH LAUNCH.

TECH CONTACT: KSC/DEAN SCHAAF/PH-L/321 861-9311
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

CONTINUED

[PRD] DATABASE RECORD: 212173
ITEM NUMBER: K13X

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/30/89
RESPONSE TRACKING: Z2814

[PRD] DATABASE RECORD: 311142 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/21/88
INITIAL DATE: 11/21/88
ITEM NUMBER: K17D DATE LAST CHANGED: 05/30/07
SECTION: 5600 TIME LAST CHANGED: 10:33:19

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DODALS DODELS STSALL
TRACKING NO. DB98 KING2001 L2741 SCRUB06
PRIORITY: REQUIRED
RATIONALE: ALTERNATE SOURCES AVAILABLE, TEMPORARY BUILDING.

1. DESCRIPTION: PROVIDE 10,000 SQ. FT. OF PROTECTED EQUIPMENT STORAGE AND PROCESSING FACILITIES, IF AVAILABLE, AT DOD ALS/ELS. MOST OF THIS AREA WILL BE USED FOR VALUABLE NON-HAZARDOUS EQUIPMENT, WHICH DOES NOT REQUIRE CONTROLLED TEMPERATURE ENVIRONMENT. TWO SEPARATE AREAS OF APPROXIMATELY 1,000 SQ. FT. EACH ARE REQUIRED, AT LEAST 1,250 FEET FROM ANY OTHER FACILITY, FOR THE PROCESSING OF TOXIC HYPERGOLIC FLUIDS REMOVED FROM THE ORBITER. IF UNAVAILABLE HELP OBTAIN TEMPORARY BUILDING FROM LOCAL SOURCE.

TECH CONTACT: KSC/TIM O'BRIEN/PH-L/321 861-9303
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/21/88
RESPONSE TRACKING: Z2756

[PRD] DATABASE RECORD: 300302 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/21/88
INITIAL DATE: 11/21/88
ITEM NUMBER: K18D DATE LAST CHANGED: 05/30/07

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5600 - FACILITIES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 300302
ITEM NUMBER: K18D

SECTION: 5600 TIME LAST CHANGED: 10:33:18

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DODALS DODELS STSALL
TRACKING NO. DB98 KING2001 L2741 SCRUB06
PRIORITY: REQUIRED
RATIONALE: ALTERNATE WORK AREAS AVAILABLE.

1. DESCRIPTION: FACILITIES AT DOD ALS/ELS

PROVIDE SHARED ACCESS TO AN AIRCRAFT HANGAR
OR OTHER SUITABLE STRUCTURE, IF AVAILABLE, AT AN ALS/ELS TO
ASSEMBLE AND STORE THE ORBITER TAILCONE AND, OTHER GSE WHICH IS
VULNERABLE TO WEATHER. THE ASSEMBLED EQUIPMENT IS
APPROXIMATELY 32 FEET HIGH, 30 FEET WIDE AND 35 FEET
LONG. CLEAR HEIGHT ABOVE 32 FEET AND SUFFICIENT SPACE
IS REQUIRED TO ASSEMBLE THE EQUIPMENT WITH A CRANE.

TECH CONTACT: KSC/TIM O'BRIEN/PH-L/321 861-9303
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/21/88
RESPONSE TRACKING: Z2756

[PRD] DATABASE RECORD: 313823 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 09/01/89
INITIAL DATE: 09/01/89
ITEM NUMBER: K19D DATE LAST CHANGED: 05/30/07
SECTION: 5600 TIME LAST CHANGED: 10:33:19

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DODALS DODELS STSALL
TRACKING NO. DB98 KING2001 R2815 R3451 SCRUB06
PRIORITY: MANDATORY
RATIONALE: SAFETY REQUIREMENT

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5600 - FACILITIES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 313823
ITEM NUMBER: K19D

1. DESCRIPTION: FACILITIES AT DOD ALS/ELS

PROVIDE AN ORBITER SAFING/DESERVICING AREA AT A DOD ALS/ELS AT LEAST 200 FT. x 200 FT. WITH ACCESS TO THE RUNWAY AND THE MATING AREA. AN EXPLOSIVE DANGER AREA MUST SURROUND THIS AREA, AND IT MUST BE BARRICADED WITH ROPES OR SIMILAR DEVICES, AND HAZARD SIGNS PLACED AROUND IT. A VALIDATED GROUND SYSTEM IS REQUIRED.

TECH CONTACT: KSC/TIM O'BRIEN/PH-L/321 861-9303
KSC/MIKE KUTA/USK-426/321 861-3890

NOTE: A SAFING/DESERVICING AREA WILL BE PROVIDED AT EACH DOD ALS. SOME CONSTRUCTION MAY BE NECESSARY TO MEET NASA SPECIFICATIONS. A 1250' EXPLOSIVE DANGER AREA WILL ESTABLISH WHEN REQUIRED. AT DOD ELS NO SITE SURVEY HAS BEEN CONDUCTED FOR THIS AREA. SPECIFIC METHODS OF DEFINING/SECURING THIS AREA WILL BE DETERMINED BY EACH ALS/ELS COMMANDER.

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/01/89
RESPONSE TRACKING: Z2806 Z3434

[PRD] DATABASE RECORD: 314970 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K20D DATE LAST CHANGED: 05/30/07
SECTION: 5600 TIME LAST CHANGED: 10:33:19

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DODALS DODELS STSALL
TRACKING NO. KING2001 R2848 SCRUB06

1. DESCRIPTION: FACILITIES AT DOD ALS/ELS

CONTINUED

[PRD] DATABASE RECORD: 314970
ITEM NUMBER: K20D

PROVIDE AN ORBITER MATING AREA AT THE DOD ALS/ELS AT
LEAST 200 FT. X 200 FT. WITH ACCESS TO THE RUNWAY,
AND THE SAFING DESERVICING AREA.

TECH CONTACT: KSC/TIM O'BRIEN/PH-L/321 861-9303
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/12/89
RESPONSE TRACKING: Z2756 Z2840

[PRD] DATABASE RECORD: 315893 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/21/88
INITIAL DATE: 11/21/88
ITEM NUMBER: K21D DATE LAST CHANGED: 05/30/07
SECTION: 5600 TIME LAST CHANGED: 10:33:19

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DODALS DODELS STSALL
TRACKING NO. DB98 KING2001 L2741 SCRUB06
PRIORITY: MANDATORY
RATIONALE: SAFETY REQUIREMENT

1. DESCRIPTION: FACILITIES AT DOD ALS/ELS

PROVIDE A HARD-SURFACE STAGING ASSEMBLY AREA, IF AVAILABLE, AT THE
DOD ALS/ELS CAPABLE OF SUPPORTING HEAVY TRUCKS & HANDLING EQUIPMENT.
THIS AREA SHOULD BE AT LEAST 700 FEET FROM THE SAFING/DESERVICING
AREA, CLOSE TO THE MATING AREA, SECURED AND LIGHTED FOR NIGHT
OPERATIONS.

TECH CONTACT: KSC/TIM O'BRIEN/PH-L/321 861-9303
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5600 - FACILITIES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 315893
ITEM NUMBER: K21D

RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/21/88
RESPONSE TRACKING: Z2756

[PRD] DATABASE RECORD: 220858 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K23D DATE LAST CHANGED: 05/30/07
SECTION: 5600 TIME LAST CHANGED: 10:33:13

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DODALS DODELS STSALL
TRACKING NO. KING2001 R2815 SCRUB06

1. DESCRIPTION: FACILITIES AT DOD ALS/ELS

PROVIDE A TRANSPORTABLE TECHNICAL SUPERVISION AND CONTROL FACILITY FROM EXISTING RESOURCES, AT ALS/ELS TO SHELTER UP TO 6 PERSONS, AND KSC PROVIDED GROUND COMMUNICATIONS EQUIPMENT (PORTABLE RADIOS, ETC.) TO CONTROL OPERATIONS UPWIND OF THE ORBITER DESERVICE AREA, AND NEAR THE MATE AREA. A HOUSE TRAILER, IF AVAILABLE, WILL SATISFY THE REQUIREMENT.

TECH CONTACT: KSC/TIM O'BRIEN/PH-L/321 861-9303
KSC/MIKE KUTA/USK-426/321 861-3890

NOTE: DOD WILL PROVIDE SUPPORT AS AVAILABLE.

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/18/89
RESPONSE TRACKING: Z2806

[PRD] DATABASE RECORD: 307122 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K24D DATE LAST CHANGED: 05/30/07

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5600 - FACILITIES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 307122
ITEM NUMBER: K24D

SECTION: 5600 TIME LAST CHANGED: 10:33:18

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DODALS DODELS S61A03 STSALL

TRACKING NO. DB98 KING2001 R2815 SCRUB06
PRIORITY: REQUIRED
RATIONALE: ADMINISTRATIVE SUPPORT

1. DESCRIPTION: FACILITIES AT DOD ALS/ELS

PROVIDE THE FOLLOWING FURNITURE AT A DOD ALS/ELS:
50 DESKS OR TABLES
100 CHAIRS
150 LINEAR FEET OF SHELVING, APPROXIMATELY 5 FT. HIGH AND
2 FT. WIDE. (PLYWOOD AND CONCRETE BLOCKS ARE SUITABLE)

TECH CONTACT: KSC/TIM O'BRIEN/PH-L/321 861-9303
KSC/MIKE KUTA/USK-426/321 861-3890

NOTE: DOD WILL PROVIDE FURNITURE AND EQUIPMENT SUPPORT AS AVAILABLE ON A REAL TIME BASIS. DOD PERSONNEL WILL ASSIST NASA IN OBTAINING REQUIRED FURNITURE AND EQUIPMENT FROM LOCAL COMMERCIAL SOURCES WHEN NOT AVAILABLE FROM DOD RESOURCES.

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/18/89
RESPONSE TRACKING: Z2806

[PRD] DATABASE RECORD: 343640 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K25D DATE LAST CHANGED: 05/30/07
SECTION: 5600 TIME LAST CHANGED: 10:33:20

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5600 - FACILITIES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 343640
ITEM NUMBER: K25D

TEST CODE: DODALS DODELS STSALL
TRACKING NO. DB98 KING2001 R2815 SCRUB06
PRIORITY: REQUIRED
RATIONALE: ALTERNATE RESOURCES AVAILABLE

1. DESCRIPTION: FACILITIES AT DOD ALS/ELS

PROVIDE UTILITIES INCLUDING ELECTRICAL POWER AND LIGHT, HEATING, AIR CONDITIONING, POTABLE AND INDUSTRIAL WATER AND SANITARY SYSTEMS TO AREAS ASSIGNED TO NASA AT DOD ALS/ELS.

TECH CONTACT: KSC/TIM O'BRIEN/PH-L/321 861-9303
KSC/MIKE KUTA/USK-426/321 861-3890

NOTE: DOD WILL SUPPORT TO THE EXTENT POSSIBLE. NO SURVEY HAS BEEN CONDUCTED AT THE DOD ELS SITES.

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/18/89
RESPONSE TRACKING: Z2806

[PRD] DATABASE RECORD: 206373 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/11/92
INITIAL DATE: 01/24/90
ITEM NUMBER: K31Z DATE LAST CHANGED: 12/06/06
SECTION: 5600 TIME LAST CHANGED: 10:16:09

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 L3607 L5404 R109-48
SCRUB06
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING SUPPORT OPERATIONS AT WSSH.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5600 - FACILITIES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 206373
ITEM NUMBER: K31Z

1. DESCRIPTION: FACILITIES AT WSSH

PROVIDE THE FOLLOWING FACILITIES AT WHITE SANDS SPACE HARBOR:

A. WHITE SANDS SPACE HARBOR OPERATIONS CONTROL CENTER (WSSH OCC):
APPROXIMATELY 400 SQ. FT. AT LEAST 10 FT. WIDE PLUS
APPROXIMATELY 120 SQ. FT. SECURED FROM OTHER AREAS
FOR COMMUNICATIONS EQUIPMENT.

B. SUPPORT COORDINATION/SCAPE SUITING SHELTER:
APPROXIMATELY 200 SQ. FT. AT LEAST 10 FT. WIDE
FOR PLANNED END OF MISSION ONLY.

TECH CONTACT: KSC/LOUIE GARCIA/PH-L/321 867-6196
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/14/92
RESPONSE TRACKING: Z3607 Z5405

[PRD] DATABASE RECORD: 346641 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K32Z DATE LAST CHANGED: 12/06/06
SECTION: 5600 TIME LAST CHANGED: 10:17:33

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 R109-48 R2832 SCRUB06
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING SUPPORT OPERATIONS AT WSSH.

1. DESCRIPTION: FACILITIES AT WSTF

PROVIDE 750 SQ. FT. OF HEATED AND AIR-CONDITIONED

CONTINUED

[PRD] DATABASE RECORD: 346641
ITEM NUMBER: K32Z

WORKING SPACE FROM EXISTING RESOURCES AT WSTF FOR USE BY KSC FLIGHT CREW EQUIPMENT PERSONNEL. AREA WILL BE USED TO PROCESS EQUIPMENT REMOVED FROM THE ORBITER DURING GROUND OPERATIONS. THIS AREA SHOULD PROVIDE:

A. ACCESS FOR WHEELED LOCKERS WHICH ARE 42 IN. WIDE X 48 IN. LONG X 48 IN. HIGH.
B. OVERNIGHT SECURITY BETWEEN WORK DAYS.
C. NEARBY ACCESS TO COPY MACHINE AND PHOTO DARKROOM FACILITY.
D. NEARBY ACCESS TO 200 SQ.FT. OF ADDITIONAL SECURE STORAGE AREA.
E. LOCAL AND TELEPHONE SERVICE.
F. TWO DESKS OR TABLES AND FOUR CHAIRS.

TECH CONTACT: KSC/LOUIE GARCIA/PH-L/321 867-6196
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/02/89
RESPONSE TRACKING: Z2825

[PRD] DATABASE RECORD: 224203 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K33.1Z DATE LAST CHANGED: 06/06/07
SECTION: 5600 TIME LAST CHANGED: 09:24:47

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 R2832
PRIORITY: REQUIRED
RATIONALE: TERTIARY LANDING SITE BECOMES MANDATORY FOR LANDING AT WSSH.

1. LOCATION:
2. TYPE FACILITY: WATER AND WASTE SYSTEM ACTIVATION IN OPERATIONS AREA, WSSH

CONTINUED

[PRD] DATABASE RECORD: 224203
ITEM NUMBER: K33.1Z

3. SITE DESIRED:
4. STATION:
5. SCHEDULE:
6. REMARKS: PROVIDE WATER AND WASTE SYSTEMS NECESSARY TO INTERFACE WITH TEMPORARY FACILITIES AT WSSH AFTER A DECISION IS MADE TO LAND AT WSSH.

TECH CONTACT: CASEY WOOD/USK-426/321 861-3920
DEAN SCHAAF/PH-M1/321 861-9311

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/02/89
RESPONSE TRACKING: Z2825

[PRD] DATABASE RECORD: 346398 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K34E DATE LAST CHANGED: 12/06/06
SECTION: 5600 TIME LAST CHANGED: 10:21:32

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 R2814 SCRUB06
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING SUPPORT OPERATIONS AT WSSH.

1. DESCRIPTION: FACILITIES AT WSSH

PROVIDE UTILITIES INCLUDING ELECT. POWER & POTABLE WATER AT WSSH.

TECH CONTACT: KSC/LOUIE GARCIA/PH-L/321 867-6196
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: WSMR

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5600 - FACILITIES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 346398
ITEM NUMBER: K34E

RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/19/89
RESPONSE TRACKING: Z2720 Z2805

[PRD] DATABASE RECORD: 354417 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K36E DATE LAST CHANGED: 12/06/06
SECTION: 5600 TIME LAST CHANGED: 10:23:45

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 R2829 SCRUB06
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING SUPPORT OPERATIONS AT WSSH.

1. LOCATION: CONVOY STAGING AREA AT WSSH
2. TYPE FACILITY:
3. SITE DESIRED:
4. STATION:
5. SCHEDULE:
6. REMARKS: PROVIDE ROADWAY (APPROX. 1 MILE LONG x 20' WIDE)
AND STAGING AREA (10,000 SQ. FT.).

TECH CONTACT: KSC/LOUIE GARCIA/PH-L/321 867-6196
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/05/89
RESPONSE TRACKING: Z2720 Z2822

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5600 - FACILITIES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 352897 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 12/11/92
INITIAL DATE: 09/06/89
ITEM NUMBER: K37Z DATE LAST CHANGED: 12/06/06
SECTION: 5600 TIME LAST CHANGED: 10:24:42

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 L5405 R2719 R3448
SCRUB06
PRIORITY: REQUIRED
RATIONALE: ADMINISTRATIVE SUPPORT

1. DESCRIPTION: FACILITIES AT WSSH

PROVIDE THE FOLLOWING FURNITURE FOR ACTIVATION OF THE GROUND OPERATIONS AREA: 60 TABLES OR DESKS, 120 CHAIRS, AND 250 LINEAR FEET OF SHELVING, AT LEAST FIVE FEET HIGH AND ONE-TO-THREE FEET WIDE.

FURNITURE WILL BE DISTRIBUTED PER WSSH PSP-001 PLAN.

TIMELINE: 72 HOURS AFTER LANDING.

TECH CONTACT: KSC/LOUIE GARCIA/PH-L/321 867-6196
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 12/14/92
RESPONSE:
300 RUNNING FEET OF TEMPORARY SHELVING CAN BE FABRICATED WITH A FIVE WORKING DAY NOTICE (FROM THE REQUESTER) IF REQUIRED.

RESPONSE TRACKING: Z26127 Z2713 Z3433 Z5405

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5600 - FACILITIES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 354385 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/26/89
INITIAL DATE: 06/26/89
ITEM NUMBER: Y39E DATE LAST CHANGED: 12/06/06
SECTION: 5600 TIME LAST CHANGED: 10:28:30

REQUESTER: NASA HQ
SUBREQUESTER: KSC/XA-E1 PAWSSH
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. KING2001 L2814 SCRUB06
PRIORITY: REQUIRED
RATIONALE: ADMINISTRATIVE SUPPORT

1. DESCRIPTION: FACILITIES AT WSMR

PUBLIC AFFAIRS REQUIREMENTS AT WSMR

TABLES AND CHAIRS ADEQUATE FOR 50 TO 100 WORKING NEWS PERSONNEL, AS SPACE PERMITS, ARE REQUIRED FOR PAO OPERATIONS AT THE WSMR MAIN BASE BUILDING 122, PRESS CENTER.

TECH CONTACT: KSC/LOUIE GARCIA/PH-L/321 867-6196
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/26/89
RESPONSE TRACKING: Z2720 Z2886

[PRD] DATABASE RECORD: 331490 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/21/88
INITIAL DATE: 11/21/88
ITEM NUMBER: K40D DATE LAST CHANGED: 05/30/07
SECTION: 5600 TIME LAST CHANGED: 10:33:20

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: HAFB STSALL WSSH

ASSOCIATED DOC: 20027S

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5600 - FACILITIES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 331490
ITEM NUMBER: K40D

TRACKING NO. DB98 KING2001 L2741 SCRUB06
PRIORITY: REQUIRED
RATIONALE: TERTIARY LANDING SITE BECOMES MANDATORY FOR LANDING AT WSSH.

1. DESCRIPTION: FACILITIES AT HAFB

TO SUPPORT SHUTTLE GROUND TURNAROUND OPERATIONS FOR A LANDING AT WSSH, COORDINATE IN REALTIME FOR ACCESS TO AVAILABLE EXISTING AIRCRAFT HANGARS OR OTHER LARGE BUILDINGS (AT HOLLOMAN AFB) FOR ASSEMBLY/ DISASSEMBLY, OR REPAIR OF LARGE ITEMS OF GROUND SUPPORT EQUIPMENT WILL BE REQUIRED. NO PRE-PLANNED USE OF THESE FACILITIES HAS BEEN IDENTIFIED. SUCH USE MAY BE REQUIRED DUE TO INCLEMENT WEATHER, EQUIPMENT FAILURES, OR OTHER CIRCUMSTANCES.

TECH CONTACT: KSC/LOUIE GARCIA/PH-L/321 867-6196
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/21/88
RESPONSE TRACKING: Z2756

[PRD] DATABASE RECORD: 215474 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K41Z DATE LAST CHANGED: 12/06/06
SECTION: 5600 TIME LAST CHANGED: 10:31:22

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 R2832 SCRUB06
PRIORITY: REQUIRED
RATIONALE: TERTIARY LANDING SITEM BECOMES MANDATORY FOR LANDING AT WSSH.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5600 - FACILITIES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 215474
ITEM NUMBER: K41Z

1. DESCRIPTION: FACILITIES AT WSSH

PROVIDE FACILITY OR AREA FOR LAIR MIXING (LO2, LN2) WITH ADEQUATE SAFETY/ELECTRICAL GROUNDING FACILITIES AT WSSH. REQUIRED FOR EACH LANDING.

TECH CONTACT: KSC/LOUIE GARCIA/PH-L/321 867-6196
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/02/89
RESPONSE TRACKING: Z2825

[PRD] DATABASE RECORD: 349543 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K42D DATE LAST CHANGED: 05/30/07
SECTION: 5600 TIME LAST CHANGED: 10:33:21

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 R2848 SCRUB06
PRIORITY: REQUIRED
RATIONALE: TERTIARY LANDING SITE BECOMES MANDATORY FOR LANDING AT WSSH.

1. DESCRIPTION: PROVIDE UP TO 20,000 WATTS OF PORTABLE LIGHTING WITH POWER SOURCES FROM EXISTING RESOURCES TO ILLUMINATE WORK AREAS AT WHITE SANDS SPACE HARBOR.

TECH CONTACT: KSC/LOUIE GARCIA/PH-L/321 867-6196
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5600 - FACILITIES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 349543
ITEM NUMBER: K42D

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/12/89
RESPONSE TRACKING: Z2840

[PRD] DATABASE RECORD: 216732 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/29/92
INITIAL DATE: 05/18/89
ITEM NUMBER: K48E DATE LAST CHANGED: 12/06/06
SECTION: 5600 TIME LAST CHANGED: 10:35:17

REQUESTER: KSC
SUBREQUESTER: KSC/TA
TEST CODE: CCAFS STSALL

ASSOCIATED DOC: 20007S
TRACKING NO. KING2001 L4213 MK98 R109-48 R2814
SCRUB06
PRIORITY: REQUIRED
RATIONALE: NOT MANDATORY TO USE THIS AREA

1. DESCRIPTION: ENVIRONMENTAL EVALUATION CENTER (EEC) - CCAFS
(L-5 HOURS)

AN AREA CALLED THE ENVIRONMENTAL EVALUATION CENTER (EEC) IS REQUIRED DURING LAUNCH OPERATIONS ONLY, IN THE RANGE CONTROL CENTER, FOR THE ACCOMMODATION OF NASA INVESTIGATORS (KSC,JSC) COORDINATING ENVIRONMENTAL MONITORING ACTIVITIES. THE PURPOSE OF THE EEC IS TO PROVIDE AN AREA WHERE PARTICIPANTS IN THE ENVIRONMENTAL PROGRAM CAN ASSEMBLE, BE PROVIDED WITH REALTIME MISSION STATUS, COORDINATE FIELD ACTIVITIES, AND BE READILY AVAILABLE FOR CONSULTATION. SPECIFIC REQUIREMENTS ARE AS FOLLOWS: TWO CONSOLES FOR KSC ENVIRONMENTAL MONITORING W/SEATING FOR THREE PEOPLE.

REFERENCE: LLS SECT. 3030, ITEM K69.1E, DBR 019393.

TECHNICAL CONTACT: BURT SUMMERFIELD/TA/321 867-4598

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5600 - FACILITIES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 216732
ITEM NUMBER: K48E

RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/21/92
RESPONSE TRACKING: Z2805 Z4509

[PRD] DATABASE RECORD: 338691 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/21/95
INITIAL DATE: 06/08/90
ITEM NUMBER: T51EK DATE LAST CHANGED: 12/06/06
SECTION: 5600 TIME LAST CHANGED: 10:39:33

REQUESTER: JSC
SUBREQUESTER: JSC/CC5 JSC/MG
TEST CODE: PAFB STSALL
TRACKING NO. KING2001 L001-11 L002-5 L005-15 L3549
L3556 L3625 L507-5 R109-48 SHAW95

1. DESCRIPTION: BASE SUPPORT AT PATRICK AFB

REQUEST 45 SW PROVIDE FACILITIES AND AIRFIELD SERVICES WHEN REQUIRED AS DOCUMENTED IN THE PRD AND COORDINATED WITH THE NASA - AIR FORCE MANAGEMENT OFFICE (NAMO) AND KSC AIRCRAFT OPERATIONS (IM-AIR). EXISTING FACILITIES ASSIGNED TO NASA WITHIN 751 HANGAR WILL PROVIDE A NASA OPS/ FLIGHT PLANNING AREA T-38 USE.
COMMUNICATIONS SHOULD INCLUDE DSN AND ACCESS LINES (AS REQUIRED), A HOTLINE TO BASE OPS, AND A SPEAKER BOX FOR MONITORING UNCLASSIFIED ORBITER/CAPCOM AIR-TO-GROUND AND PAO COMMUNICATIONS.

POINT-OF-CONTACT: FOR FCOD FACILITIES IS JSC/CC5/DAVID MUMME/
281 244-9646

REF: LLS SECT. 5100A, ITEM T3E, DBR 346284

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/16/96
RESPONSE TRACKING: Z26113 Z2689 Z3047 Z3112 Z3562
Z3566 Z3623 Z7704

CONTINUED

[PRD] DATABASE RECORD: 338691
ITEM NUMBER: T51EK

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: TA-E-A

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/21/95
RESPONSE TRACKING: Z3566

[PRD] DATABASE RECORD: 277998 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/03/94
INITIAL DATE: 08/17/89
ITEM NUMBER: K54Z DATE LAST CHANGED: 12/06/06
SECTION: 5600 TIME LAST CHANGED: 10:40:37

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 L407-5 L6815 R2832
R3412 SCRUB06 SHAW94
PRIORITY: REQUIRED
RATIONALE: TERTIARY LANDING SITE BECOMES MANDATORY FOR LANDING AT WSSH.

1. DESCRIPTION: ELECTRICAL SYSTEM ACTIVATION
IN OPERATIONS AREA-WSSH

WSTF TO PROVIDE ELECTRICAL SYSTEM HOOKUP FOR TEMPORARY FACILITIES INSTALLED AT WSSH AFTER A DECISION IS MADE TO LAND AT WSSH (INCLUDING AOA/ELS).

TECH CONTACT: KSC/LOUIE GARCIA/PH-L/321 867-6196
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/03/94
RESPONSE TRACKING: Z2825 Z3406 Z6407

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5600 - FACILITIES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 278544 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K55D DATE LAST CHANGED: 05/30/07
SECTION: 5600 TIME LAST CHANGED: 10:33:16

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DODALS DODELS STSALL
TRACKING NO. DB98 KING2001 R2815 SCRUB06
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING SUPPORT OPERATIONS AT DOD ALS/ELS.

1. DESCRIPTION: ELECTRICAL POWER

PROVIDE ELECTRICAL POWER 115/230 VOLT, SINGLE PHASE, 60 HERTZ
AT A DOD ALS/ELS.

REQUIRED FOR OPERATION SUPPORT FACILITIES PROVIDED TO NASA
FOR ORBITER TURNAROUND AT DOD ALS/ELS.

TECH CONTACAT: KSC/TIM O'BRIEN/PH-L/321 861-9303
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 05/18/89
RESPONSE:
AT SOME LOCATIONS 60 HERTZ POWER NOT AVAIL.

RESPONSE TRACKING: Z2806

[PRD] DATABASE RECORD: 296394 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K56D DATE LAST CHANGED: 05/30/07
SECTION: 5600 TIME LAST CHANGED: 10:33:17

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DODALS DODELS STSALL
TRACKING NO. DB98 KING2001 R2815 SCRUB06
PRIORITY: MANDATORY

CONTINUED

[PRD] DATABASE RECORD: 296394
ITEM NUMBER: K56D

RATIONALE: REQUIRED FOR LANDING SUPPORT OPERATIONS AT DOD ALS/ELS.

1. DESCRIPTION: ELECTRICAL POWER, 480 VOLT, 3 PHASE, 60 HERTZ
DOD ALS/ELS.

225 KVA REQUIRED AT ORBITER SAFING/DESERVICING AREA
PLUS 225 KVA AT THE MATING AREA AT DOD ALS/ELS.

TECH CONTACT: KSC/LOUIE GARCIA/PH-L/321 867-6196
KSC/MIKE KUTA/USK-426/321 861-3890

NOTE: FACILITY POWER CAN BE INSTALLED CONTINGENT ON NASA OBTAINING
APPROVAL FROM THE APPLICABLE FOREIGN COUNTRY. AT SOME LOCATIONS
60 HERTZ POWER NOT AVAILABLE.

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/18/89
RESPONSE TRACKING: Z2806

[PRD] DATABASE RECORD: 284324 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/16/94
INITIAL DATE: 09/01/89
ITEM NUMBER: K57D DATE LAST CHANGED: 05/30/07
SECTION: 5600 TIME LAST CHANGED: 10:33:16

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: ELS STSALL TAL USAALS
USAELS WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 L2681 L2712 L3849
R2647 R2667 R2703 R3451 R4401
R4408 R6565 SCRUB06
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING SUPPORT OPERATIONS AT DOD ALS/ELS.

1. DESCRIPTION: DOD SUPPORT AT WSSH OR AT NON-DOD ALS'S/ELS'S

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5600 - FACILITIES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 284324
ITEM NUMBER: K57D

IN THE EVENT OF A CONTINGENCY LANDING AT WSSH, A NON-DOD ALS (E.G., MOROCCO) OR A NON-DOD ELS, THE FOLLOWING SUPPORT IS REQUIRED UNTIL ORBITER TURNAROUND IS COMPLETED:

A. GENERAL PURPOSE SHELTERS (GP): (EIGHT EACH APPROXIMATELY 31' X 50') ANY SUITABLE STRUCTURE CAN BE SUBSTITUTED AS LONG AS THE SQUARE FOOTAGE IS MET.
B. AIRCRAFT HANGARS: TWO EACH (APPROXIMATELY 130'X 75'X 25' WITH AM2 MATTING).
C. BILLETING/MESS/LATRINES/LAUNDRY/SHOWER FACILITIES TO SUPPORT 550 PERSONNEL. PERSONNEL FLOW WILL DEPEND ON REAL-TIME SITE READINESS AND ABILITY TO ACCEPT PERSONNEL.
D. A WATER PURIFICATION AND DISTRIBUTION SYSTEM (NOT REQ'D AT WSSH).
E. A TEMPORARY SEWAGE STORAGE FACILITY. (LATRINE NEEDS WATER DISTRIBUTION SYSTEM AT WSSH).
F. EQUIPMENT AND PERSONNEL TO SUPPORT ABOVE FACILITIES.
G. THE PRIORITY FOR ACTIVATION IS BILLETING/MESSING/STORAGE/ ADMINISTRATION.
H. REQUEST DOD SUPPLY RATIONS SUFFICIENT FOR THREE MEALS PER DAY FOR 550 PERSONNEL FOR A PERIOD OF NINETY DAYS. THE B RATION MENU (TWO HOT MEALS, ONE MRE) WILL BE ACCEPTABLE.

CONTACTS: NASA OPERATIONS MANAGER ON SITE
KSC/TIM O'BRIEN/PH-L/321 861-9303
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/16/94
RESPONSE TRACKING: Z2764 Z3434 Z4406 Z4424 Z6556

[PRD] DATABASE RECORD: 10321 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 08/21/95
INITIAL DATE: 03/25/87
ITEM NUMBER: T58K DATE LAST CHANGED: 06/04/07
SECTION: 5600 TIME LAST CHANGED: 09:57:08

REQUESTER: JSC

CONTINUED

[PRD] DATABASE RECORD: 10321
ITEM NUMBER: T58K

SUBREQUESTER: JSC/CC5
TEST CODE: STSALL
TRACKING NO. KING2001 L001-11 L009-3 L02-2-3 L3625
L3850 L4102 L507-5 L908-7 R109-33
R2624 R3417 SHAW95
PRIORITY: MANDATORY
RATIONALE: MISSION SUCCESS

1. DESCRIPTION:
STORAGE OF PARACHUTES, ETC. - LACB

PROVIDE AT THE KSC SHUTTLE LANDING FACILITY, LANDING AREA CONTROL BUILDING (LACB), ACCOMMODATIONS FOR THE STORAGE OF SIXTEEN PARACHUTES, HELMETS, AND PERSONAL EQUIPMENT BELONGING TO JSC FLIGHT CREWS. THE ACCOMMODATIONS SHOULD INCLUDE PROVISIONS FOR HANGING THE PARACHUTES, AND SHELVES FOR THE HELMETS, AND PERSONAL EQUIPMENT.

THE JSC AIRCRAFT OPERATIONS POINT OF CONTACT IS BRUCE ARNOLD/CC52/ 281 244-9630

KSC CONTACT: ROBERT V. BRYAN/SGS-346/321 867-2100

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-UB SGS-346 SGS-347

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/21/95
RESPONSE TRACKING: Z2915 Z3623 Z3868

[PRD] DATABASE RECORD: 13627 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/11/90
INITIAL DATE: 04/11/90
ITEM NUMBER: T59K DATE LAST CHANGED: 12/06/06
SECTION: 5600 TIME LAST CHANGED: 10:50:19

REQUESTER: JSC
SUBREQUESTER: JSC/CA4
TEST CODE: PREFLT STSALL
TRACKING NO. KING2001 L001-11 L004-2 L03-1-1 L04-7-2

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5600 - FACILITIES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 13627
ITEM NUMBER: T59K

L3625 R109-48 R2654 R3510

1. DESCRIPTION: FACILITIES AT KSC

PROVIDE 1150 SQ. FT. IN THE O&C BLDG. (RM 3287/3287A) FOR USE AS A CREW ALTITUDE PROTECTION SYS., ASTRONAUT SUITING ROOM & PROCESSING FACILITY.

PROVIDE/INSTALL THE FOLLOWING IN ROOM 3287/3287A:

A. OIS COMMUNICATIONS
B. MISSION OPS TV
C. EIGHT EACH 3'X5' FOAM BACKED NO-SLIP SHORT PILE AREA RUGS
D. EIGHT EACH 8'X3' FORMICA TOPPED TABLES
E. EIGHT EACH RECLINING CHAIRS
F. TWO EACH WALL LOCKERS
G. ONE SPEAKERPHONE
H. SIX EACH 3000 PSI OXYGEN CYLINDERS TO WALL
I. RACK FOR SECURING SIX OXYGEN CYLINDERS TO WALL
J. ONE DOUBLE PEDESTAL DESK
K. ONE DESK CHAIR
L. ONE FOUR TIER SET OF BOOK SHELVES WITH BASE AND TOP UNIT
M. PRIVACY CURTAINS AROUND THREE SUITING AREAS NEXT TO WALL ADJACENT TO ROOM 3281/3281A
N. RECERTIFY BREATHING AIR SYSTEM
O. INSTALL BREATHING AIR BOTTLES IN THE RACK ON THE NORTHERN SIDE ON THE O&C BUILDING
P. EXTEND AIR DISTRIBUTION SYSTEM FROM WALL MOUNTED OUTLETS TO EIGHT ADDITIONAL OUTLETS TO SERVICE CREW SUIT STATIONS
Q. INSTALL A 48" DOOR BETWEEN ROOM 3281A AND ROOM 3287A

ACCESS TO THE ROOM WILL BE CONTROLLED UNDER THE HEALTH STABILIZATION PROGRAM.

NOTE:
FACILITY IS REQUIRED BASED ON LEVEL II PRCB APPROVAL OF PCIN S60041B.

COORDINATION: JSC/CA4/ROBERT HANLEY/281 244-8654
JSC/JOE AQUINO/281 483-4033

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)

CONTINUED

[PRD] DATABASE RECORD: 13627
ITEM NUMBER: T59K

SUBSUPPLIER: IM-S-A

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/11/90
RESPONSE TRACKING: Z26131 Z3505 Z3623

[PRD] DATABASE RECORD: 590058 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 11/27/06
INITIAL DATE: 11/27/06
ITEM NUMBER: KT61K DATE LAST CHANGED: 01/30/07
SECTION: 5600 TIME LAST CHANGED: 10:21:09

REQUESTER: KSC JSC
SUBREQUESTER: KSC/OC
TEST CODE:
TRACKING NO. R0611-7

1. LOCATION: SSPF
2. TYPE FACILITY: OFFLINE LAB
3. SITE DESIRED:
4. STATION:
5. SCHEDULE: L-5 TO L-2 DAYS
6. REMARKS: PROVIDE ONE (1) OFFLINE LAB IN THE SSPF FOR T-RAD PROCESSING WITH ACCESSIBLE EMERGENCY EYE WASH STATION.

POC: BOEING/721S-S240/JOHN CARVER/321 861-2204

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: 721S-S240 UB-I

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/28/06

[PRD] DATABASE RECORD: 591158 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/23/07
INITIAL DATE: 03/23/07
ITEM NUMBER: K62Z DATE LAST CHANGED: 05/29/07
SECTION: 5600 TIME LAST CHANGED: 08:57:53

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L
TEST CODE:

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 5600 - FACILITIES

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 591158
ITEM NUMBER: K62Z

ASSOCIATED DOC: 20027S
TRACKING NO. R0703-5 R0704-1

1. DESCRIPTION: FACILITIES - WSSH

PROVIDE OFFICE SPACE FACILITIES FOR APPROXIMATELY 50 PEOPLE 72 HOURS PRIOR TO A WSSH LANDING. OFFICE SPACE SHOULD HAVE A/C AND HEATING, PHONE AND COMPUTER HOOKUPS, CHAIRS AND TABLES. ALSO PROVIDE RESTROOM FACILITIES TO ACCOMODATE THESE 50 INDIVIDUALS.

TECH CONTACT: WSTF/ROBERT MITCHELL/505 524-5774
KSC/LOU GARCIA/321 867-6196

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/29/07

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 6000 - OTHER SUPPORT

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

[PRD] DATABASE RECORD: 267918 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/02/90
INITIAL DATE: 02/02/90
ITEM NUMBER: T1K DATE LAST CHANGED: 12/01/06
SECTION: 6000 TIME LAST CHANGED: 10:12:15

REQUESTER: JSC
SUBREQUESTER: JSC/CA4
TEST CODE: KSC STSALL
TRACKING NO. KING2001 L001-11 L03-1-1 L3625 R109-36

1. DESCRIPTION: FLIGHT CREW TRAINING - KSC

KSC IS REQUIRED TO PROVIDE FAMILIARIZATION DEMONSTRATIONS AND TRAINING FOR THE LAUNCH CREWS AND RESCUE CREWS FOR AIDED INGRESS, AIDED EGRESS, ESCAPE AND RESCUE ASSOCIATED WITH PREFLIGHT AND POST LANDING OPERATIONS. JSC HAS RESPONSIBILITY FOR ALL ASTRONAUT TRAINING ACTIVITY MANAGEMENT AND SCHEDULING FOR THESE DEMONSTRATIONS AND TRAINING.

COORDINATION: ROBERT HANLEY/JSC/CA4/281 244-8654

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: MK

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/15/90
RESPONSE TRACKING: Z3623

[PRD] DATABASE RECORD: 290171 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K2X DATE LAST CHANGED: 03/22/07
SECTION: 6000 TIME LAST CHANGED: 09:11:56

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 R109-36 R2826
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING SUPPORT OPERATIONS AT EAFB.

1. DESCRIPTION: PROOFLOAD WEIGHTS FOR GSE - DFRC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 6000 - OTHER SUPPORT

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 290171
ITEM NUMBER: K2X

PROVIDE UP TO 10,000 POUNDS OF WEIGHTS FOR
PROOFLOADING OF GSE AT DFRC, 1000 POUNDS OF WHICH IS TO BE
PROVIDED IN SMALL UNITS WITHIN SITE CAPABILITY.

TECH CONTACT: DEAN SCHAAF/PH-L/321 861-9311
MIKE KUTA/USK-426/321 861-3980

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/30/89
RESPONSE TRACKING: Z2814

[PRD] DATABASE RECORD: 175820 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/09/97
INITIAL DATE: 05/18/89
ITEM NUMBER: K3KX DATE LAST CHANGED: 03/22/07
SECTION: 6000 TIME LAST CHANGED: 09:12:42

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: EAFB INFO STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. DB98 KING2001 L8108 R109-36 R3415
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING SUPPORT OPERATIONS AT EAFB.

1. DESCRIPTION: THE GROUND OPERATIONS TEAM INSTITUTIONAL
SUPPORT REQUIREMENTS FOR ACTIVITIES AT DFRC ARE BASED UPON
AN ESTIMATE OF APPROXIMATELY 380 NASA/KSC AND KSC CONTRACTOR
PARTICIPANTS WHICH MUST BE SUPPORTED. THIS NUMBER IS NOT
INTENDED TO INCLUDE ASSIGNED DFRC SHUTTLE PERSONNEL WHO OBTAIN
THIS SUPPORT WITHIN THEIR OWN ORGANIZATION. IF THIS ESTIMATE
CHANGES, THE SUPPORT REQUIREMENTS WILL CHANGE ACCORDINGLY.

A. ORBITER TURNAROUND REQUIREMENTS WILL BE SCHEDULED DURING
THE DAILY DFRC SUPPORT MEETING.

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 6000 - OTHER SUPPORT

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 175820
ITEM NUMBER: K3KX

TECH CONTACT: DEAN SCHAAF/PH-l/321 861-9311
CASEY WOOD/USK-426/321 861-3920

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: PH-L USK-426

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z8134

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z3409 Z8134

[PRD] DATABASE RECORD: 307489 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 06/15/89
INITIAL DATE: 06/15/89
ITEM NUMBER: K8X DATE LAST CHANGED: 03/22/07
SECTION: 6000 TIME LAST CHANGED: 09:13:09

REQUESTER: KSC
SUBREQUESTER: KSC/NE-E1
TEST CODE: 26002C EAFB MSBLS STSALL

ASSOCIATED DOC: 20026S 26002
TRACKING NO. DB98 KING2001 R109-36 R2831
PRIORITY: MANDATORY
RATIONALE: RQUIRED TO MAINTAIN MSBLS AT DFRC.

1. DESCRIPTION: MSBLS FLIGHT OPERATIONS - DFRC

MSBLS FLIGHT INSPECTION OPERATIONS, AT DFRC
WILL REQUIRE INSTITUTIONAL SUPPORT, FOR APPROXIMATELY
TEN NASA AND CONTRACTOR PERSONNEL DURING MSBLS TEST PERIODS.

TECH CONTACT: JOHN KIRIAZES/NE-E1/321 861-3700

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)

CONTINUED

[PRD] DATABASE RECORD: 307489
ITEM NUMBER: K8X

SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/15/89
RESPONSE TRACKING: Z2824

[PRD] DATABASE RECORD: 203612 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K9D DATE LAST CHANGED: 05/30/07
SECTION: 6000 TIME LAST CHANGED: 10:33:12

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: DODALS DODELS STSALL
TRACKING NO. DB98 KING2001 R2848
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING SUPPORT OPERATIONS AT DOD ALS/ELS.

1. DESCRIPTION: PROOFLOAD WEIGHTS - DOD ALS/ELS

PROVIDE UP TO 10,000 POUNDS OF WEIGHTS FOR PROOF-
LOADING GSE AT DOD ALS/ELS. AT LEAST 1,000 POUNDS MUST BE IN
INCREMENTS OF 100 POUNDS OR LESS.

TECH CONTACT: KSC/TIM O'BRIEN/PH-L/321 861-9303
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/12/89
RESPONSE TRACKING: Z2840

[PRD] DATABASE RECORD: 236539 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 01/09/97
INITIAL DATE: 11/15/91
ITEM NUMBER: K11DEGKT DATE LAST CHANGED: 05/30/07
SECTION: 6000 TIME LAST CHANGED: 10:33:14

REQUESTER: KSC

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 6000 - OTHER SUPPORT

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 236539
ITEM NUMBER: K11DEGKT

SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: ALS ELS INFO S61A03
STSALL TAL
TRACKING NO. DB98 KING2001 L4428 L8108 R2802
R3451
PRIORITY: REQUIRED
RATIONALE: INFORMATION

1. DESCRIPTION: THE GROUND OPERATIONS SUPPORT REQUIREMENTS DEFINED IN THIS DOCUMENT FOR ORBITER/CARGO TURNAROUND AT A TRANS-OCEANIC ABORT LANDING SITE OR ALS/ELS ARE BASED UPON AN APPROXIMATE NUMBER OF 500 TURNAROUND PERSONNEL. APPROXIMATELY 50% OF THESE PEOPLE WILL WORK ON FIRST SHIFT (0700-1600 LOCAL TIME); APPROXIMATELY 30% ON SECOND SHIFT (1600-2400); AND 20% ON THIRD SHIFT (2400-0800). ALL PERSONNEL WILL WORK SEVEN DAYS PER WEEK UNTIL THE ORBITER AND CARGO DEPART FROM THE ALS/ELS. ORBITER PROCESSING AND DEPARTURE FROM A PACIFIC ALS/ELS WILL TAKE CONSIDERABLY LONGER THAN 30 DAYS.

TECH CONTACT: KSC/TIM O'BRIEN/PH-L/321 861-9303
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z8134

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB ER WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z8134

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: TONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 6000 - OTHER SUPPORT

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 236539
ITEM NUMBER: K11DEGKT

RESPONSE TRACKING: Z8134

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: PH-L USK-426

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z8134

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 01/09/97
RESPONSE TRACKING: Z8134

[PRD] DATABASE RECORD: 224866 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/10/98
INITIAL DATE: 04/24/89
ITEM NUMBER: K12DEGKTZ DATE LAST CHANGED: 05/30/07
SECTION: 6000 TIME LAST CHANGED: 10:33:13

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: INFO STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. DB98 KING2001 L512-1 L603-3 L7504
L7613 L8108 R2802 R9007

1. DESCRIPTION: LANDING SUPPORT AT WSSH

THE SUPPORT REQUIREMENTS IN THIS DOCUMENT FOR A LANDING AT WHITE SANDS SPACE HARBOR (WSSH) ARE BASED ON THE FOLLOWING GUIDELINES:

A. WSSH WILL REMAIN AS AN AOA ABORT SITE. THESE AOA ABORT LANDINGS WILL BE DONE WITHOUT TRACKING, METEOROLOGICAL, AND HELICOPTER MEDIVAC SUPPORT.

B. WSSH WILL REMAIN AS A DAILY PLS. TRACKING, METEOROLOGICAL, AND HELICOPTER MEDIVAC SUPPORT WILL NOT BE SCHEDULED WHEN WSSH IS DESIGNATED AS A DAILY PLS.

CONTINUED

[PRD] DATABASE RECORD: 224866
ITEM NUMBER: K12DEGKTZ

C. WITH LESS THAN 24 HOURS NOTICE OF AN EOM OR EEOM LANDING AT WSSH, TRACKING, METEOROLOGICAL AND HELICOPTER SUPPORT WILL BE PROVIDED ON A BEST EFFORT BASIS. WITH 24 HOURS OR MORE NOTICE OF A LANDING, TRACKING AND METEOROLOGICAL REMAINS BEST EFFORT, HOWEVER, HELICOPTER MEDEVAC WILL BE PROVIDED.

D. WSSH WILL RETAIN ALL LANDING AIDS SUPPORT FOR STA TRAINING FLIGHTS. THIS SUPPORT WILL ALSO BE AVAILABLE FOR SHUTTLE LANDING SUPPORT.

E. AFTER ORBITER ROLL OUT, THE CREW WILL POWER DOWN AND EGRESS USING KSC TRAINED PERSONNEL, EQUIPMENT, AND PROCEDURES.

F. THE ORBITER WILL BE TOWED TO THE TURNAROUND PAD AND MONITORED UNTIL THE KSC TURNAROUND TEAM ARRIVES.

G. THE TURNAROUND EQUIPMENT WILL BE SHIPPED IN FROM BOTH DFRC AND KSC AS NECESSARY.

H. EXISTING AREA MEDICAL FACILITIES WILL BE USED, I.E. HAFB, BEAUMONT ARMY, LAS CRUCES, CHAMPION MEMORIAL, ETC.

I. STA TRAINING, FIRE/CRASH AND RESCUE, AND EXISTING SHUTTLE CONVOY SUPPORT WILL BE PROVIDED.

TECHNICAL CONTACT: KSC/LOUIE GARCIA/PH--L/321 867-6196
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 02/10/98
RESPONSE TRACKING: Z2801 Z8134 Z9008

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: WSMR
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 02/18/98

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 6000 - OTHER SUPPORT

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 224866
ITEM NUMBER: K12DEGKTZ

RESPONSE TRACKING: Z8134 Z9008

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: Z2801 Z8134 Z9008
RESPONDER: TONY WILLIAMS/301 805-3459

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 02/17/98
RESPONSE TRACKING: Z2801 Z8134 Z9008

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: PH-L

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 02/11/98
RESPONSE TRACKING: Z2801 Z8134 Z9008

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
SUBSUPPLIER: Z2801 Z8134 Z9008
RESPONDER: KITTY CUNNINGHAM/281 483-0572

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 02/10/98
RESPONSE TRACKING: Z2801 Z8134 Z9008

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
SUBSUPPLIER: Z2801 Z8134 Z9008
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: INFO WILL COMMIT RESPONSE DATE: 02/17/98
RESPONSE TRACKING: Z2801 Z8134 Z9008

[PRD] DATABASE RECORD: 232453 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 05/18/89
INITIAL DATE: 05/18/89
ITEM NUMBER: K13Z DATE LAST CHANGED: 12/01/06
SECTION: 6000 TIME LAST CHANGED: 10:23:56

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L USK-426
TEST CODE: 20027S STSALL WSSH

ASSOCIATED DOC: 20027S

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 6000 - OTHER SUPPORT

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 232453
ITEM NUMBER: K13Z

TRACKING NO. DB98 KING2001 R109-36 R2832 SCRUB06
PRIORITY: REQUIRED
RATIONALE: REQUIRED FOR LANDING SUPPORT AT WSSH.

1. DESCRIPTION: PROOFLOADING WEIGHTS - WSSH

PROVIDE UP TO 10,000 POUNDS OF WEIGHTS FOR PROOFLOADING GSE AT WSSH.
AT LEAST 1,000 POUNDS MUST BE IN INCREMENTS OF 100 POUNDS OR LESS.

TECH CONTACT: KSC/LOUIE GARCIA/PH-L/321 867-6196
KSC/MIKE KUTA/USK-426/321 861-3890

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/02/89
RESPONSE TRACKING: Z2825

[PRD] DATABASE RECORD: 261013 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 04/08/97
INITIAL DATE: 01/29/91
ITEM NUMBER: K16D DATE LAST CHANGED: 05/30/07
SECTION: 6000 TIME LAST CHANGED: 10:46:58

REQUESTER: KSC
SUBREQUESTER: I-PH-L KSC/NE-E1
TEST CODE: MORON MSBLS STSALL TAL

ASSOCIATED DOC: 20029S
TRACKING NO. DB98 KING2001 L3730 L3849 L5207
L8308 R109-36 R2809 R2831 R3936
R8401 SCRUB06
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING SUPPORT OPERATIONS AT MORON.

1. DESCRIPTION: SUPPORT REQUIRED AT MORON, SPAIN

1. PROVIDE COMMUNICATIONS CAPABILITY BETWEEN MORON, SPAIN
AND KSC. REQUIRED COMMUNICATIONS: A. TELEPHONE

CONTINUED

[PRD] DATABASE RECORD: 261013
ITEM NUMBER: K16D

B. TELETYPE
C. FACSIMILE TRANSMISSION

NOTE: HSFS WILL SUPPORT ITEM 1C WITHIN EXISTING CAPABILITIES.

2. PROVIDE OFFICE SPACE FOR 4 PERSONS. PROVIDE 300 SQ. FT. OF LOCKABLE STORAGE SPACE FOR MSBLS SPARES AND TEST EQUIPMENT.
3. PROVIDE ELECTRICAL POWER FOR MSBLS OBSTRUCTION LIGHTS.
4. PROVIDE LOGISTICS SUPPORT FOR INSTALLATION, REMOVAL AND PACKING OF MSBLS AND SUPPORT EQUIPMENT.
5. PROVIDE ACCESS TO BASE SUPPLY SYSTEM FOR ELECTRICAL PIECE PARTS, MECHANICAL HARDWARE AND MISCELLANEOUS SUPPLIES.
6. OBTAIN RADIO FREQUENCY CLEARANCE FOR:
   15.568 GHZ CH6 MSBLS (REF: SECT 1405/K127/DBR 014153)
   165.8000 MHZ, NAV AID OPS (REF: SECT 1405/K35/DBR 336358)
   15.460 GHZ MSBLS DME DOWN LINK (REF: SECT 1405/K116/DBR 278237)
   321.325 MHZ, NASA OPS (REF: SECT 1405/K77/DBR 014159)

TECH CONTACTS: JOHN KIRIAZES/NE-E1/321 861-3700
TIM O'BRIEN/PH-L/321 861-9303
HSFS-O/321 494-5116/8581

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/08/97
RESPONSE TRACKING: Z2824 Z3732 Z5210 Z5313 Z8401

[PRD] DATABASE RECORD: 268077 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/19/02
INITIAL DATE: 05/18/89
ITEM NUMBER: K17D DATE LAST CHANGED: 05/30/07
SECTION: 6000 TIME LAST CHANGED: 10:50:55

REQUESTER: KSC
SUBREQUESTER: KSC/PH-L PWR
TEST CODE: MORON S51I01 S61A03 S61E04
STSALL TAL

CONTINUED

[PRD] DATABASE RECORD: 268077
ITEM NUMBER: K17D

ASSOCIATED DOC: 20029S
TRACKING NO. DB98 KING2001 L3849 L8304 R109-36
R112-3 R2848 SCRUB06
PRIORITY: MANDATORY
RATIONALE: REQUIRED FOR LANDING SUPPORT OPERATIONS AT MORON.

1. DESCRIPTION: DOD SUPPORT AT MORON AB, SPAIN

REQUIREMENTS LISTED BELOW ARE REQUESTED BY KSC/GSS TO SUPPORT A
A LANDING AT MORON AB, SPAIN:

1. SUPPORT FROM BASE FACILITIES - CARPENTER SHOP, MACHINE SHOP, ETC.

2. ALL REQUIRED CLEARANCES FOR ACCESS TO RUNWAY FOR EITHER TWO
PICKUP TRUCKS OR FOUR PEOPLE.

3. ROAD CLEARING TO PAPI LIGHT SITES PRIOR TO LAUNCH IF REQ'D.

TECH CONTACTS: TIM O'BRIEN/PH-L/321 861-9303
CHRISTOPHER IANNELLO/NE-M8/321 867-3276
MIKE KUTA/USK-426/321 861-3890
HSFS-X/321 494-2143

SUPPLIER: HSFS AGENCY: 45 OG/HSFS (DEPARTMENT OF DEFENSE)
RESPONDER: ED LEVKA/321 494-2143

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/14/02
RESPONSE TRACKING: Z112-13 Z2840 Z8322

[PRD] DATABASE RECORD: 283080 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/01/99
INITIAL DATE: 12/12/88
ITEM NUMBER: T18EK DATE LAST CHANGED: 12/01/06
SECTION: 6000 TIME LAST CHANGED: 10:42:03

REQUESTER: JSC
SUBREQUESTER: I-PH-B JSC/MV
TEST CODE: KSC STSALL

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 6000 - OTHER SUPPORT

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

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[PRD] DATABASE RECORD: 283080
ITEM NUMBER: T18EK

ASSOCIATED DOC: 20028S
TRACKING NO. KING2001 L508-1 L901-2 R109-36 R2906
R9310 SCRUB06 SHAW95

1. DESCRIPTION: KSC POSTLANDING OPERATIONS

1. KSC IS REQUESTED TO:

A. MEASURE MAIN GEAR TOUCHDOWN, NOSE GEAR TOUCHDOWN AND STOP POINT FROM THE THRESHOLD. ATTEMPT TO OBTAIN LATERAL EXCURSION FROM CENTERLINE.(SEE LLS 2640, ITEM TK15KXZ, DBR 257742).
B. TAKE CLOSEUP COLOR PHOTOGRAPHS OF TIRE TREAD/WEAR/DAMAGE. (REFERENCE LLS 3120, ITEM TK77KX, DBR 021698).

2. ER IS REQUESTED TO:

A. RECORD WIND S/D ON RUNWAY.

SUPPORT WILL BE PROVIDED AS FOLLOWS:

REF	ORGANIZATION	POINTS OF CONTACT FOR SUPPORT
1A	USK-116	FRANK DEBERNARDO/321 861-0272
1B	USK-408	KLINT COMBS/321 861-3164

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	REPORT	1	2 CD	JSC/MV/KENNETH BROWN/281 483-3891

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/01/99
RESPONSE TRACKING: Z2915

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: I-NE-E1 I-NE-M PH-L

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 6000 - OTHER SUPPORT

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 283080
ITEM NUMBER: T18EK

USK-116 USK-408 USK-426

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/01/99
RESPONSE TRACKING: Z2915

[PRD] DATABASE RECORD: 16224 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/01/99
INITIAL DATE: 12/12/88
ITEM NUMBER: T18.1Z DATE LAST CHANGED: 12/01/06
SECTION: 6000 TIME LAST CHANGED: 10:43:38

REQUESTER: JSC
SUBREQUESTER: I-PH-B JSC/MV
TEST CODE: STSALL WSSH

ASSOCIATED DOC: 20027S
TRACKING NO. KING2001 L2639 L2652 L2721 L508-1
L901-2 R109-36 R2701 R2906 R9310
SHAW95

1. DESCRIPTION: POST-LANDING OPERATIONS (WSSH)

1. WHEN WSSH IS THE PRIME AOA, WSTF IS REQUESTED TO:

A. MEASURE MAIN GEAR TOUCHDOWN, NOSE GEAR TOUCHDOWN AND STOP POINT FROM THE TRESHOLD. ATTEMPT TO OBTAIN LATERAL EXCURSION FROM CENTERLINE. (REFERENCE LLS 2640, ITEM T15KXZ, DBR 257742).

B. RECORD WIND S/D ON RUNWAY.

PRIME REQUESTER: JSC/MV/KENNETH BROWN/281 483-3891

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ	RECIPIENT/REMARKS
1	REPORT	1	2 CD	JSC/MV/KENNETH BROWN/281 483-3891

SUPPLIER: WSTF AGENCY: WSTF/RC (WHITE SANDS TEST FACILITY)
RESPONDER: ROBERT MITCHELL/505 524-5774

LAUNCH AND LANDING PRD/PSP-VOLUME I-SHUTTLE
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 6000 - OTHER SUPPORT

PUBLICATION DATE: 01/02/07 REVISION: 0000 RUN DATE: 07/13/07

CONTINUED

[PRD] DATABASE RECORD: 16224
ITEM NUMBER: T18.1Z

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/01/99
RESPONSE TRACKING: Z26200 Z2705 Z2755 Z2915 Z7925

[PRD] DATABASE RECORD: 17057 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/01/99
INITIAL DATE: 12/12/88
ITEM NUMBER: T18.2EX DATE LAST CHANGED: 03/22/07
SECTION: 6000 TIME LAST CHANGED: 09:13:37

REQUESTER: JSC
SUBREQUESTER: I-PH-B JSC/MV
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. KING2001 L508-1 L901-2 R109-36 R2906
R9310 SHAW95

1. DESCRIPTION: POST-LANDING OPERATIONS (EAFB)

1. DFRC IS REQUESTED TO:

A. MEASURE MAIN GEAR TOUCHDOWN, NOSE GEAR TOUCHDOWN AND STOP POINT FROM THE THRESHOLD. ATTEMPT TO OBTAIN LATERAL EXCURSION FROM CENTERLINE. (REFERENCE LLS 2610, ITEM TK15KXZ, DBR 257742).

B. TAKE CLOSEUP COLOR PHOTOGRAPHS OF TIRE TREAD/WEAR/DAMAGE. (REFERENCE LLS 3120, ITEM TK77X, DBR 021698).

2. EAFB IS REQUESTED TO:

A. RECORD WIND S/D ON RUNWAY.

DATA DISPOSITION:

REF	DATA TYPE	QTY	TIME REQ'D	RECIPIENT/REMARKS
1	REPORT	1	2 CD	JSC/MV/KENNETH BROWN/281 483-3891

CONTINUED

[PRD] DATABASE RECORD: 17057
ITEM NUMBER: T18.2EX

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/01/99
RESPONSE TRACKING: Z2915 Z6924

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/01/99
RESPONSE TRACKING: Z2915 Z7503

[PRD] DATABASE RECORD: 20565 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 03/24/92
INITIAL DATE: 12/20/89
ITEM NUMBER: T18.4EX DATE LAST CHANGED: 03/22/07
SECTION: 6000 TIME LAST CHANGED: 09:14:05

REQUESTER: JSC
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. KING2001 L02-2-1 L202-2 L3222 L4904
L912-3 R109-36 R109-39
PRIORITY: MANDATORY
RATIONALE: MISSION SUCCESS

1. DESCRIPTION: CERTIFICATION OF EDWARDS AFB ROGER'S LAKEBED SHUTTLE RUNWAYS FOR ORBITER LANDING AFTER A PERIOD OF SIGNIFICANT WETTING

   AFTER THE LAKEBED RUNWAYS HAVE BEEN DECLARED "RED" (AS DEFINED BY AF AIRFIELD MANAGEMENT) FOR A PERIOD OF SEVEN OR MORE CONSECUTIVE DAYS, PERFORM THE FOLLOWING:

   CONDUCT AUTOMATED CONE PENETROMETER (ACP) EVALUATION OF EACH SHUTTLE

CONTINUED

[PRD] DATABASE RECORD: 20565
ITEM NUMBER: T18.4EX

LAKEBED RUNWAY INCLUDING 1000 FEET EACH OF OVERRUN & UNDERRUN AND ALL TOW ROUTES. CONDUCT ACP TESTING ON 200 FOOT CENTERS ADJACENT TO THE CENTERLINE OF EACH DESIGNATED SHUTTLE RUNWAY AND ALONG THE AXIS OF EACH TOW ROUTE. APPLY SOFTWARE ALGORITHM DEVELOPED BY MANAGING TECHNOLOGY INC. TO ASSESS BEARING STRENGTH. BEARING STRENGTH AT EACH TEST LOCATION MUST BE AT LEAST 1200 PSI CONE INDEX FOR EACH SOIL LAYER TO A DEPTH OF 24 INCHES, OR, ANY SUBSTANDARD LAYER MUST BE ADEQUATELY COMPENSATED BY A STRONGER ADJACENT LAYER. A FAILURE AT TWO OR MORE CONSECUTIVE TEST LOCATIONS WILL CAUSE THE RUNWAY NOT TO BE CERTIFIED FOR SHUTTLE LANDING.

FOR ANY LAKEBED RUNWAYS THAT ARE INUNDATED BY FLOODWATERS FOR A PERIOD EXCEEDING 14 DAYS AND GIVE EVIDENCE OF FISSURING IN THE PROXIMITY OF THAT RUNWAY, PERFORM THE FOLLOWING FOR THAT RUNWAY. IF FISSURING IS SUSPECTED, CONDUCT ACP TESTING ON 200 FOOT CENTERS ADJACENT TO THE CENTERLINE OF EACH RUNWAY AND ALONG THE AXIS OF EACH TOW ROUTE. APPLY SOFTWARE ALGORITHM DEVELOPED BY MANAGING TECHNOLOGY INC. TO ASSESS BEARING STRENGTH AS DONE FOR A PERIODIC EVALUATION. CONDUCT TEN PARALLEL RADAR TRAVERSES ALONG EACH RUNWAY (10, 20, 30, 50 AND 100 FEET RIGHT AND LEFT OF CENTERLINE). USING THE ACP, EVALUATE ALL SIGNIFICANT RADAR ANOMALIES BY CONDUCTING A MINIMUM OF SEVEN TESTS SPACED AT 12 INCH INTERVALS AND CENTER OF THE RADAR ANOMALY. THE BEARING STRENGTH AT ALL TEST LOCATIONS MUST BE AT LEAST 1200 PSI CONE INDEX FOR EACH SOIL LAYER TO A DEPTH OF 24 INCHES, OR ANY SUBSTANDARD LAYER MUST BE ADEQUATELY COMPENSATED BY A STRONGER LAYER. A FAILURE AT TWO OR MORE CONSECUTIVE TEST LOCATIONS WILL CAUSE THE RUNWAY NOT TO BE CERTIFIED FOR SHUTTLE LANDING UNTIL ADEQUATE REPAIRS HAVE BEEN EFFECTED.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/03/92
RESPONSE TRACKING: Z3231 Z4915

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: OS
RESPONDER: GEORGE GRIMSHAW/661 276-3425

CONTINUED

[PRD] DATABASE RECORD: 20565
ITEM NUMBER: T18.4EX

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/27/92
RESPONSE TRACKING: Z3641 Z4915

[PRD] DATABASE RECORD: 204301 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 02/11/02
INITIAL DATE: 04/15/91
ITEM NUMBER: T28EX DATE LAST CHANGED: 03/22/07
SECTION: 6000 TIME LAST CHANGED: 09:14:40

REQUESTER: JSC
SUBREQUESTER: JSC/KX
TEST CODE: EAFB STSALL

ASSOCIATED DOC: 20026S
TRACKING NO. KING2001 L104-4 L3957 L806-1 R109-36

1. DESCRIPTION: LAKEBED CAMERA POINT INSTALLATION,
SURVEY, AND MAINTENANCE

INSTALL AND SURVEY CAMERA AND TARGET BOARD LOCATION POINTS ON ALL SHUTTLE RUNWAYS PER THE SHUTTLE PHOTOGRAPHIC PLAN.

PROVIDE ONGOING MAINTENANCE AND MARKING OF SURVEYED POINTS TO ENSURE THAT OPERATORS WILL BE READILY ABLE TO LOCATE THEM.

PRIME REQUESTER: JSC/SN5/GREGORY BYRNE/281 483-0500

POINTS OF CONTACT: JSC - GREGORY BYRNE/SN5/281 483-0500
PMTC - CHARLIE FORD/AV 351/805 989-8189
EAFB - LEE LEDFORD/AV 527/805 277-4319
DFRC - JIM ROSS/661 276-2325
ER - MIKE GAWEL/321 853-8118

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB
RESPONDER: MIKE GAWEL/321 853-8118

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/11/02

CONTINUED

[PRD] DATABASE RECORD: 204301
ITEM NUMBER: T28EX

RESPONSE TRACKING: Z3994 Z7312

SUPPLIER: DFRC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: FI
RESPONDER: GEORGE GRIMSHAW/661 276-3425

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/11/02
RESPONSE TRACKING: Z3994

[PRD] DATABASE RECORD: 520259 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: LLS APPROVAL DATE: 07/25/02
INITIAL DATE: 06/10/92
ITEM NUMBER: D30T DATE LAST CHANGED: 05/31/07
SECTION: 6000 TIME LAST CHANGED: 08:24:10

REQUESTER: HSFS
SUBREQUESTER: HSFS-O
TEST CODE: SPECIAL

ASSOCIATED DOC: MODE8
TRACKING NO. KING2001 L4601 L5215 R109-36 R112-4
R6530 SCRUB06 SHAW95

1. DESCRIPTION: ASTRONAUT OFFICE, NASA JSC OBSERVERS, EQUIPMENT

PROVIDE THE FOLLOWING SUPPORT FOR THE MODE8 EXERCISE:

A. ASTRONAUT, NASA/VITT AND NASA/EVA PARTICIPANTS AS REQUIRED BY EXERCISE SCENARIO.

1. EXERCISE OBSERVERS AND TECHNICAL EXPERTISE.

2. SIMULATED ASTRONAUT CREW.

3. PROVIDE TWO MANNEQUINS TO USE AS SIMULATED SURVIVORS AND FOUR SPRING WEIGHT WETSUITS FOR MODE VIII 2002.

B. TWO ASTRONAUT LAUNCH ENTRY SUITS (WITH LIFE RAFT AND SURVIVAL BUNDLES), HARNESSES, HELMETS AND OTHER ANCILLARY EQUIPMENT AS IDENTIFIED BY EXERCISE SCENARIO.

CONTINUED

[PRD] DATABASE RECORD: 520259
ITEM NUMBER: D30T

C. ASTRONAUT CONFIGURED LIFE RAFTS FOR USE IN EXERCISE.
NUMBER TO BE DEPENDENT ON EXERCISE SCENARIO.
RADIOS: TYPE, QUANTITY AND SUPPLIER WILL BE COORDINATED IN REAL-TIME.

D. PERSONNEL AND EQUIPMENT MAY BE NEEDED FOR PRE-EXERCISE TRAINING APPROXIMATELY ONE DAY PRIOR FOR EXERCISE PARTICIPANTS' AND AIRCREW PRE-BRIEF.

TECH CONTACTS: JSC/CA4/VITT/TONY HELMS/321 861-9225
CREW SYSTEMS/KARIN PORTER/281 483-5887
(D) HSFS-X/321 494-2143

REFERENCE: LLS SECT 1130, ITEM D3DEKT, DBR 520361

SUPPLIER: JSC AGENCY: JSC/DB (T - JOHNSON SPACE CENTER)
SUBSUPPLIER: DF433 JSC/CA4

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/25/02
RESPONSE TRACKING: Z112-8 Z4618 Z5220 Z6522

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