| **Page** | **Section** | **Line** | **Type** | **Comment/ Rationale** | **Source of Comment (Name/Agency)** | **Suggested Disposition** | **Disposition**  **(Completed by Principal Editor)** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1-3 | 1.5 | Ref [2] | te | Spacewarn Bulletin obsolete. | David S. Berry / NASA | Replace reference [2] with pointer to UNOOSA Registry of space objects. (See ODM for example) |  |
| 1-3 | 1.5 | Ref [4] | te | Obsolete reference | David S. Berry / NASA | The document is now at issue 4. (301.0-B-4) |  |
| 1-3 | 1.5 | Ref [7] | te | Obsolete reference | David S. Berry / NASA | The document is now at issue 2. (502.0-B-2) |  |
| 3-2 | Table 3-1 |  | te | It is not clear why the DOY example of the CREATION\_DATE was removed. | David S. Berry / NASA | Consider not deleting this. |  |
| 3-2 | Table 3-1 |  | te | CCSDS/CESG suggests that value for "ORIGINATOR" come from SANA | David S. Berry / NASA | Indicate that the value for "ORIGINATOR" keyword "should" (not "shall") come from the SANA Registry |  |
| 3-3 | Table 3-2 |  | te | Use of Spacewarn Bulletin for OBJECT\_NAME and OBJECT\_ID is obsolete. | David S. Berry / NASA | Replace reference to Spacewarn with reference to UNOOSA Registry of space objects. (See ODM for example) |  |
| 3-3 | Table 3-2 |  | te | Use of "CONTENTS" keyword is not clear. | David S. Berry / NASA | Specify if the keywords can be in any order, or if there are any prohibited combinations, etc. |  |
| 3-4 | 3.2.4.3 | 1 | te | States that as many logical blocks "as necessary" may be used... as necessary for what? | David S. Berry / NASA | Specify |  |
| 3-4 | 3.2.4.4 | 1 | te | This statement constitutes a major divergence from the APM design of a single state with single epoch. | David S. Berry / NASA | We should discuss at San Antonio. |  |
| 3-4 | Table 3-3 |  | te | The APM version 1 required at least the quaternion. What is the logic for making it optional? In theory, you could create a completely empty, but "valid" APM by having zero required logical blocks. | David S. Berry / NASA | We should discuss at San Antonio. |  |
| 3-5 | Table 3-3 |  | te | On description of several keywords, the statement about an excerpt appearing in the Units/Values column was removed, but should not be because the "Normative" qualification indicates it is the full set of values. | David S. Berry / NASA | Consider restoring the note about there being an excerpt in that column. |  |
| 3-7 | Table 3-3 |  | te/ed | For "SPIN\_ANGLE\_VEL", the full "ANGLE\_VEL" is spelled out. However, for most of the document you have used "ANGVEL". | David S. Berry / NASA | Consider if "SPIN\_ANGVEL" would be more consistent. |  |
| 3-8 | Table 3-3 |  | te/ed | MAN\_TOR\_1, \*\_2, \*\_3 seem inconsistent with changes elsewhere in the document to go to \*\_X, \*\_Y, \*\_Z. | David S. Berry / NASA | I don't know if this was intentional on your part to leave 1,2,3, or if it was just missed. NOTE: \*\_1,2,3 is consistent with what was done in the ODM, even from version 1. I don't know why this was chosen when the analogy to X,Y,Z seems so obvious. |  |
| 3-9 | 3.2.5.2.1 |  | te/ed | Retains old notation I21, I12, I31, I13, I32, I23 | David S. Berry / NASA | Change to new IXY, IYX, etc. notation. |  |
| 3-15 | Fig 3-6 |  | te/ed | The caption indicates "Euler Angle Rates", but all the "\*\_RATE" keywords are stricken. | David S. Berry / NASA | Consider if the example is still relevant. |  |
| 4-4 | Table 4-3 |  | te | Use of Spacewarn Bulletin for OBJECT\_NAME and OBJECT\_ID is obsolete. | David S. Berry / NASA | Replace reference to Spacewarn with reference to UNOOSA Registry of space objects. (See ODM for example) |  |
| 4-5 | Table 3-3 |  | te | On description of several keywords, the statement about an excerpt appearing in the Units/Values column was removed, but should not be because the "Normative" qualification indicates it is the full set of values. | David S. Berry / NASA | Consider restoring the note about there being an excerpt in that column. |  |
| 4-8 | Table 4-4 |  | te | The table contains several ephemeris data lines that contain X\_RATE, Y\_RATE, Z\_RATE, but those keywords have been removed. | David S. Berry / NASA | Modify ephemeris lines to be consistent. |  |
| C-4 | Annex C | Title | te | The annex is listed as "NORMATIVE" but should be "INFORMATIVE". | David S. Berry / NASA | Change "NORMATIVE" to "INFORMATIVE" in subtitle. |  |
| H-1 | Annex H | [H3] | ed | The document has been replaced. | David S. Berry / NASA | Change to *Organization and Processes for the Consultative Committee for Space Data Systems*, CCSDS A02.1-Y-4. Yellow Book. Issue 4. Washington, D.C.: CCSDS, April 2014. |  |
| H-1 | Annex H | [H4] | ed | The document has been updated. | David S. Berry / NASA | Change to 500.0-G-3, Issue 3, May 2010. |  |
| I-4 | Annex I, A2 |  | ed/te | Text on the material that will be in SANA needs to be updated. | David S. Berry / NASA | On the first bullet, change "PRM" to "APM and AEM", "schema" to "schemas". |  |
| I-4 | Annex I, A2 |  | ed/te | Text on the material that will be in SANA needs to be updated. | David S. Berry / NASA | On the second bullet, change "PRM XML" to "PRM KVN". |  |
| I-4 | Annex I, A2 |  | ed/te | Text on the material that will be in SANA needs to be updated. | David S. Berry / NASA | On the third bullet, remove "and CATALOG\_NAME and" |  |
| I-4 | Annex I, A2 |  | ed/te | Text on the material that will be in SANA needs to be updated. | David S. Berry / NASA | Delete the fourth bullet (applicable to CDM, not ADM) |  |