| **Page** | **Section** | **Line** | **Type** | **Comment/ Rationale** | **Source of Comment (Name/Agency)** | **Suggested Disposition** | **Disposition**  **(Completed by Principal Editor)** |
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| 3-3 | 3 | ~29 | Te | The “CATALOG\_NAME” entry of “SATCAT” is not clear. Typically, SATCAT refers to the Satellite Catalog, which is a specific file that may be obtained from Space-Track.org or CelesTrak. These two formats are fairly similar and relate to a specific set of columns that don’t contain the satellite’s (or object’s) orbital state vector, ephemeris, etc. Is this what was intended ? | Oltrogge/NASA | Suggest “TLE Catalog” in either two- or three-line elements, (again, if that was what was intended). |  |
| 3-3 | 3 | Bottom | Ge | ORBIT\_CENTER” … | Oltrogge/NASA | seems like something that we should standardize in the SANA registry |  |
| 3-4 | 3 | Top | Te | TIME\_SYSTEM… | Oltrogge/NASA | Not your headache, but we should look to the SANA registry for these. |  |
| 3-4 | 3 | Top | TE | REF\_FRAME … | Oltrogge/NASA | Is also not complete in NAV DEFINITIONS document |  |
| 3-4 | 3 | Bottom | TE | INTRACK\_THRUST… | Oltrogge/NASA | While I understand the desire to know this, what about cross-track? What about how much thrusting? Direction? |  |
| 3-6 | 3 | Top | TE | LIFETIME\_DISPERSION can be highly non-Gaussian. | Oltrogge/NASA | Recommend percentiles, etc. |  |
| 3-6 | 3 | TOP | TE | ORBIT\_LIFETIME - | Oltrogge/NASA | Recommend use of “median” orbit lifetime |  |
| 3-6 | 3 | Bottom | TE | CNORTH\_NORTH, CNORTH\_EAST, CEAST\_EAST is not a realistic reference frame for reentry. Majority of dispersion is along-track, with cross-track affected by high-alt windows during terminal velocity phase. From the current ISO 21095 draft document: “To estimate the risk to human beings, typically “casualty area” is defined as an envelope covering all the locations of the geometric centre of maximum projected area of a surviving object which interferes with an average-size human being in a static standing position.” | Oltrogge/NASA | Recommend switching to a “95th percentile polynomial” or some such. Alternately, something like 95th percentile uprange and downrange distances and crosstrack left and crosstrack right or something. |  |
| 3-8 | 3 | All | TE | As a group, we continue to be hampered by duplicating major portions of messages because of our parsing of messages. | Oltrogge/NASA | Seems like we really need to switch our mentality to a more unified message that contains optional key components. |  |
| 3-6 | 3 | All | TE | Is this where a field such as the expected number of casualties (Ec) should go? | Oltrogge/NASA | For us to discuss |  |
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