| **Page** | **Section** | **Line** | **Type** | **Comment/ Rationale** | **Source of Comment (Name/Agency)** | **Suggested Disposition** | **Final Disposition**  **(Do Not Fill In)** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 2-1 | 2.2.2 | 5 | GE | “conjunction” can be confusing, due to CDM | NASA | Suggest, “... then an APM must be accompanied by a corresponding Orbit …” |  |
| 3-4 | 3.2.4.4 | ~9 | TE | BLOCK\_START seems slightly confusing | NASA | Suggest using “ATT\_START” rather than BLOCK\_START (in all instances). OR, something like DATA\_START (??) |  |
| 3-5 | 3.2.4.4 | ~20 | TE | Agree that Q\_DIR is not needed | NASA | Suggest removing that, but then adding additional text to clarify the mapping from A to B. Also remember to remove other instances of this keyword from the rest of the document. |  |
| 3-5 | 3.2.4.4 | ~40 | TE | EULER\_DIR is (equivalently) also not needed | NASA | Suggest removing that, but then adding additional text to clarify the mapping from A to B. Also remember to remove other instances of this keyword from the rest of the document. |  |
| 3-6 | 3.2.4.4 | ~40 | TE | ANGVEL\_DIR is (equivalently) also not needed | NASA | Suggest removing that, but then adding additional text to clarify the mapping from A to B. Also remember to remove other instances of this keyword from the rest of the document. |  |
| 3-6 | 3.2.4.4 | ~80 | TE | SPIN\_DIR is (equivalently) also not needed | NASA | SPIN\_DIR could be removed everywhere |  |
| 3-7 | 3.2.4.4 | ~120 | TE | Could eliminate SPIN\_DIR as well, if FRAME\_A is always mapped to FRAME\_B | NASA | SPIN\_DIR could be removed everywhere |  |
| 3-5 to 3-7 | 3.2.4.4 | ~~ | TE | Suggest ATT\_START, SPIN\_START, INERTIA\_START, etc | NASA |  |  |
| 3-5 | 3.2.4.4 | ~~ | TE | Agree that no value should be required for any of the “\_STOP” keywords | NASA |  |  |
| 3-8 | 3.2.4.4 | 4 | TE | Again recommend something like MAN\_START | NASA |  |  |
| 4-17 | 4.2.3 | 1 | TE | Same comment on ATTITUDE\_DIR | NASA | Could potentially eliminate \*if\* direction is defined in body of text |  |
| 4-17 | 4.2.3 | ~40 | TE | Agree that one definition should suffice, if clearly defined and standardized. | NASA | Eliminate. |  |
| 4-18 | 4.2.3 | ~25 | TE | Improper to interpolate quaternions; would have to be interpolating on an Euler axis/angle basis | NASA | Suggest modifying for quaternions to always be Euler axis/angle interpolation. E.g., higher-order interp could lead to sin(phi/2) values that have absolute magnitudes > 1.0. We should discuss further. |  |
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