

Proposed DO-242A Edits from Richard Barhydt

1. *Section 2.1.2.19.2*: Change “represent” to “represents”.
2. *Section 2.1.2.19.2*: The first sentence after the bulleted list is awkward. Recommend changing to, “Long-term intent represents information on the current and subsequent trajectory change points and flight segments.”
3. **Action Item 13-5 (re. Ron Jones Comment #19), Section 3.3.3.1.1 and 3.3.3.1.2**: I spoke to Jonathan Hammer regarding separation standards used for the Appendix J free flight scenarios (also referenced in DO-242A Section 2.2.2.5.2). Jonathan confirmed that a reduced separation of 2 NM was assumed for both the right-angle conflict shown in Figure J-20 and the false alarm conflict. He also referred to Sections J.3.1.2.1 and J.3.1.2.2 that verify these assumptions. Jonathan said that no analysis was done for the 1200 knot closure head-on conflict mentioned in Section 2.2.2.5.2 and that no separation standard was assumed since it wouldn’t have changed any statements made about that scenario. Jonathan also stated that the 2 minute alerting time requirement was a judgment call and suggested a reference to my MIT studies that seem to support this figure (if appropriate). Jonathan agreed with a note stating that a higher separation standard may require a longer acquisition time, saying that such a statement seemed intuitive and reasonable. Based on this conversation, I recommend we keep the notes referenced by Ron Jones in Comment #19 (Note #13 in Table 3-4(a) and Note #7 in Table 3-4(b)) and change them to read, “These values are based on the scenario in Section 2.2.2.5.2 that assumes a reduced horizontal separation standard of 2 NM. Separation standards of more than 2 NM may require longer acquisition ranges to provide adequate alerting times.”
4. *Table 3-17*: Change to indicate that the horizontal and vertical mode indicators are 2 bit fields.
5. *Section 3.4.7.5*: Add space between “the” and “True/Magnetic” in note.
6. *Section 3.4.8*: First 2 sentences in Note 2 to Table 3-24 is awkward. Recommend changing to, “Changes to the value of these elements will trigger the transmission of higher update rate messages containing the new value of that element. Only that element needs to be updated (not the entire TC Report).”
7. **Action Item 13-6 (re. Revised Appendix Q)**: Please see attached revision to Appendix Q.