

RTCA Special Committee 186, Working Group 5

ADS-B UAT MOPS (DO-282), Revision A

Meeting #15

**Correction of the use of Radio Altitude in the
Determination of “On-Ground” Status**

Presented by Gary Furr

SUMMARY

As it turns out, there is an error in Table 2-17 of DO-282 because of an error in DO-242A which lists the Radio Altitude as 100 feet instead of 50 feet. This Working Paper proposes changes to Table 2-17 to correct this error in DO-282.

Introduction

During the meeting of the ICAO AMCP Working Group C, UAT Subgroup in Montreal 13-16 January 2003, for the review of the draft UAT SARPS and the draft UAT Technical Manual, the Subgroup discussed what became Table 3-12 in the draft UAT Technical Manual, which is used to Determine the On-Ground Status, and Table 3-13 which is used for overriding that determination. During the meeting, it was agreed that we would propose changing the values in Table 3-12 for the Radio Altitude from a value of "less than 100 feet" to a value of "less than 50 feet." An Action Item was created for me to write an Issue Paper/Working Paper to address these proposed changes in other RTCA documents.

During my research of this issue in preparation for writing the Issue Paper, and for writing subsequent comments against the ADS-B MASPS (RTCA DO-242A), the UAT MOPS (RTCA DO-282) and the draft 1090 MOPS (DO-260A), what I discovered is that the draft 1090 MOPS, revision A (DO-260A) already had the value set at 50 feet. The original 1090 MOPS (DO-260) document also had the correct values in it, and it was DO-260 that was used to create §3.4.3.1.1 in DO-242A with respect to this requirement.

In further review, it appears that there is in fact a typo in the ADS-B MASPS (DO-242A) in §3.4.3.1.1, item 6a, wherein the Radio Height (RH) is incorrectly referenced at 100 feet, when it should have been 50 feet (as it correctly appeared in DO-260, Table 2-9A). It appears that this error (use of 100 feet) was then carried forward to the UAT MOPS (DO-282), Table 2-17, and then further carried into the UAT Technical Manual, that we ended up reviewing during the ICAO UAT Subgroup meeting in Montreal.

Therefore, I find that there is no need to issue a comment against the draft 1090 MOPS, revision A (DO-260A). The Issue Paper (comment) will take the form of asking for the correction of the number in the ADS-B MASPS, section 3.4.3.1.1, item 6a, and the corresponding corrections to Table 2-17 in the UAT MOPS (DO-282).

Proposed Change

I propose changing all of the values of 100 feet in the rightmost "Radio Altitude" column of Table 2-17 in DO-282 to a value of 50 feet to match the actual requirement as originally stated in DO-260.