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Minimum Operational Performance Standards for Traffic Alert and Collision Avoidance System II (TCAS II)

Version 7.1

Change 2

RTCA DO-185B: Change 2
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Executive Summary

Change 2 to DO-185B provides for the following five (5) changes:

1. Improve the efficiency of the TCAS surveillance function so as to reduce utilization of the 1030 and 1090 MHz channel without reducing the effectiveness of the equipment's collision avoidance function.

2. Allow TCAS to implement a narrow band Mode S receive function compatible with the RTCA/DO-260B ADS-B receiver requirements without negatively impacting the TCAS receiver function.

3. Update the flight test requirements to add Atlanta as an alternate location for high density Mode S flight testing and to modify the combined air and ground density requirement accordingly.

4. Decrease the TCAS RA broadcast interval from 8 seconds to 1 second to be compatible with the intended use of this data by ground controllers.

5. Clarify the intent of interference limiting by adding text to the requirements and adding a new test.