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

Version 7.1

Change 1

RTCA DO-185B, Change 1
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Executive Summary

This Change 1 document specifies a change to the TCAS II requirements contained in RTCA document DO-185B. The rationale for the change is described in change proposal CP123, which was approved by the SC-147 Requirements Working Group.

The first part of the change concerns an aspect of the TCAS multiaircraft logic. It affects the "middle" aircraft of a multi-threat situation, and removes the feature that would have required a green arc to accompany that aircraft's RA.

The second part of the change clarifies the coding of certain bits reporting Hybrid Surveillance capability within the Data Link Capability Report, to be consistent with a change made to DO-300.

Section 1 provides the text changes to Volume I.

Section 2 provides changes to the Pseudocode in Volume II, Attachment A.

Section 3 provides changes to the state charts in Volume II.

Section 4 provides changes to the TSIM data set that is specified for the verification of the TCAS implementation. This material is not part of DO-185B, but is accompanying material distributed by FAA, not by RTCA.