

**Terms of Reference**

**Special Committee 209**

**Revision Minimum Operational Performance Standards for ATCRBS/Mode S Transponder**  
 (Revision 1)

**1. REQUESTER AND SPECIAL COMMITTEE VOLUNTEER LEADERSHIP:**

	Requester	Co-chairman	Co-chairman	Designated Federal Official
Person	David Hempe	Thomas Pagano	Robert Saffel	Richard Jennings
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**2. DELIVERABLES:**

**Products**

**Due Date**

1. Change '1' to Minimum Operational Performance Standards for Air Traffic Control Radar Beacon System/Mode Select (ATCRBS/Mode S) Airborne Equipment – RTCA Document DO-181D

September 2010

**3. TERMINATION OF COMMITTEE ACTIVITIES**

Special Committee (SC) 209 will terminate its activities when the Program Management Committee (PMC) approves the committee's final document. Any change/extension of the committee's work program requires prior PMC approval.

**4. NAS ARCHITECTURE LINKAGE**

The ATRBS/Mode S Transponder is a key tool in both the U.S. National Airspace System (NAS) as well as in the global airspace environment, supporting such functions as air traffic identification/separation, European elementary (ELS) and enhanced (EHS) surveillance, Automatic Dependant Surveillance – Broadcast (ADS-B), Traffic Information Service (TIS), and Traffic Collision Avoidance System (TCAS).

**5. REQUIREMENTS ASSESSMENT:**

SC-209 recommendations will help assure that aircraft continue to operate safely within the NAS and are compatible with other NAS and global air traffic management architecture elements as well as TCAS. In addition, the efforts of SC-209 will maintain harmonization of TSO/ETSO-C112 that will greatly benefit U.S. manufacturers by maintaining consistency in international specifications.

## **6. TERMS OF REFERENCE:**

The special committee should develop a work program, with schedule and milestones, to accomplish the following terms of reference:

- A. Revise DO-181 MOPS to reflect latest amendment to ICAO Annex 10.
- B. Revise DO-181 to reflect changes that resulted from updating of RTCA DO-260A to DO-260B, the 1090MHz Extended Squitter ADS-B performance standards
- C. Establish close working relationships with SC-186, WG-3 (1090 MHz ADS-B MOPS to coordinate any efforts that might impact 1090 MHz Extended Squitter operation.
- D. Coordinate with EUROCAE WG-49 current efforts to revise ED-73C, to harmonize with their work product.
- E. Develop recommend changes to 14 CFR Part 43, Appendix F transponder continued airworthiness maintenance requirements for consideration by AFS-300.

## **7. OTHER CONSIDERATIONS:**

### **EUROCAE**

RTCA SC-209 is an independent advisory committee, not a joint RTCA/EUROCAE committee. However, coordination between RTCA SC-209 and EUROCAE Working Group 49 will be undertaken to insure that harmonization, as practical, is maintained between RTCA DO-181D and EUROCAE Document ED-73C, when approved by the RTCA PMC and EUROCAE Council respectively.