

**SIXTY - NINETH MEETING**

**SC-186**

**AUTOMATIC DEPENDENT SURVEILLANCE - BROADCAST (ADS-B)**

**DATE:** Sept 7, 2018  
**TIME:** 10:30 a.m. – 11:30 a.m. (EDT)  
**PLACE:** RTCA HQ (Virtual)  
1150 18th NW, Suite 910  
Washington, DC 20036

The attendees included:

**SC-186 Co-Chairmen**

Rocky Stone            United Airlines, Inc.  
Jessie Turner           Boeing

**SC-186 Secretary**

Michael Garcia        Aireon

**SC-186 Government Authorized Representative**

Gregg Nesemeier      FAA

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Members (Present in the room and on the Teleconference/WebEx)

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Arbuckle, Doug	Federal Aviation Administration (FAA)	Daskalakis, Anastasios	Aurora Innovations
Baker, Charles	Federal Aviation Administration (FAA)	Duke, Jim	Air Line Pilots Association (ALPA)
Berckefeldt, Richard	Honeywell International, Inc.	Field, Jack	The MITRE Corporation
Bone, Randy	The MITRE Corporation	Garcia, Michael	Aireon, LLC
Bowman, Stuart	The MITRE Corporation	Gaul, Bob	Garmin Ltd.
Brooks, Kimberly	Federal Aviation Administration (FAA)	Godoy, Jose	ARINC Incorporated
Comstock, Greg	StratMach	Gray, David	Federal Aviation Administration (FAA)
Darr, Stephen	Dynamic Aerospace, Inc.	Gray, Martin	Trig Avionics Limited

Name	Organization	Name	Organization
Hahn, Edward	Air Line Pilots Association (ALPA)	Shafaat, Taji	The Boeing Company
Jacobson, Randy	Rockwell Collins, Inc.	Skoog, Todd	Garmin Ltd.
Jain, Ravi	Federal Aviation Administration (FAA)	Sparrow, Jeffrey	Aurora Innovations
Kenney, Larry	Raytheon	Stassen, Hans	The MITRE Corporation
Littleford, Daniel	Federal Aviation Administration (FAA)	Steiner, Timothy	Federal Aviation Administration (FAA)
Lovelace, Dan	Regulus Group	Steinleitner, Jorg	EUROCONTROL
Macoomb, Ian	NAV CANADA	Stone, Rocky	United Airlines, Inc.
Mark, Eltzafan	Federal Aviation Administration (FAA)	Stoops, Wes	Regulus Group
Nesemeier, Gregg	Federal Aviation Administration (FAA)	Townsend, Brian	American Airlines, Inc.
Nguyen, Lee	Federal Aviation Administration (FAA)	Turner, Jessie	The Boeing Company
Orell, Greg	MITRE	Von Hoene, Paul	Federal Aviation Administration (FAA)
Pagano, Thomas	Regulus Group	Walker, Don	Federal Aviation Administration (FAA)
Perez, Brenda	Regulus Group	Weitz, Lesley	The MITRE Corporation
Secen, Al	RTCA, Inc.		

**\*\* Note: All files named in conjunction with Agenda items can be downloaded \*\* from the RTCA SC-186 Workspace at <http://workspace.rtca.org/kws>**

1. Chairman's Introductory Remarks.

- Rocky convened the Sept 7, 2018 meeting by welcoming all in attendance. Participants were identified based on the WebEx participant list and the RTCA VP and EUROCAE Liason read several standard policy statements (02\_RTCA\_EUROCAE Welcome, Meeting KickOff Slides.pdf)

2. Review of Meeting Agenda.

- Rocky reviewed the agenda and noted that it is posted to the RTCA workspace.

3. Review/Approval of the Sixty-Eighth Meeting Summary

- The minutes from the March 23<sup>rd</sup> 2018 plenary (#68) were posted and Rocky requested that the participants review them at their earliest convenience.
- The minutes were approved during the September 7<sup>th</sup> plenary.

4. WG-4 – Pre-FRAC Briefing for DO-317B, Change 1

- Lesley Weitz presented the DO-317B/ED-194A Revision schedule briefing (RTCA SC186 WG4\_DO-317 Schedule\_revA.pdf). This is a joint document with EUROCAE
  - Change 1 is being targeted for acceptance by Dec 2018
    - Will address TSAA test vector issues found in prior version
    - FRAC resolution meeting Oct 30/Nov 1
    - Acceptance of resolutions anticipated by Nov 2.

- Delivery of final document by Dec 31, 2018. Rocky recommended that it would be ideal to have it ready for the Dec 13 PMC, but it would need to be submitted to the committee at least 30 days prior to the PMC date. Lesley believes this is achievable based on current estimates.
- Don Walker clarified that the changes in Change 1 shouldn't be "heavy" and the review process should be relatively straightforward
- Jessie requested a markup of Appendix U and Miles took the action to do so.
- DO-317C / ED-194B is being targeted for acceptance by Dec 2019
  - Proposals for any other changes should be briefed at the next WG-4 meeting Oct 30/Nov 1 meeting
- Miles Bellman presented a briefing with additional details related to changes pending in DO-317B, Change 1 (TSAA\_Change1\_Revisions.pdf)
  - Test vectors have been revised to resolve some of the velocity-related issues
  - No changes were made to requirements or test procedures, only to Appendix U
  - Rocky recommended to send this to FRAC and Don Walker agreed with Honeywell's comment related to velocity bias
- Rocky made a motion to approve DO-317B, Change 1 to submit to the FRAC process and it was seconded and approved.
  - Al will send out the current version on 9/7 and a redline with some of Miles additional changes next week

#### 5. Other Business.

- Terms of Reference (Rev 21 Draft)
  - Jessie presented an updated version of the Terms of Reference that moves "and update Appendix H (surface link mitigation service status)" to the FIM
  - Rocky made a motion to approve the changes to the terms of reference to submit and it was seconded and approved.
- Date, Place and Time of Next Meeting.
  - The next face-to-face plenary session for SC-186 is Nov 2, 2018, location at RTCA HQ in DC.

#### 6. New Business

- Max Amirfeiz mentioned that they are doing some validation of TSAA using radar track recordings
- None

#### 7. Review Action Items/Work Programs.

- Miles Bellman will create a markup version for Appendix U for DO-317B, Change 1 and post that to the workspace by 9/10/2018.
- Don Walker will schedule a telecom within the next 2 weeks to discuss some additional potential changes related to velocity bias to Appendix U of DO-317B, Change 1
- Action Items from previous plenary (March 23, 2018):

- Doug Arbuckle will check with SASP to determine what can be shared with RTCA on ASEPS
- Don Walker and David Gray to reach out to Buck regarding analyzing TSAA algorithm performance for Helicopters (Does the Fixed-Wing based algorithm work well enough for most Helicopter operations?)
- Al Secen and Rocky Stone will reach out to the UAT community to survey whether they are available and interested to initiate WG5
- Don Walker has an action to update the definition of CAPP and review it at the next Plenary
- Lesley and Doug will review the definition of CAPP and determine how it might fit in with other related IM work
- ~~Doug and Lesley will coordinate with Jorg to determine the exact date/time of the virtual plenary meeting planned for Sept.~~
- Doug will email to the SC-186 leadership documents relating to WG4/WG1 activities (from circa 2014) for new applications to the RTCA workspace
- Action Items from two previous plenaries ago:
  - ~~Rocky to provide a presentation on the process to introduce new items into the ADS-B standards by the next plenary.~~
  - ~~Al Secen will prepare a request letter to EUROCAE regarding EUROCAE's participation in RTCA's SC-186 WG-4 (from EUROCAE's WG-51).~~

8. Adjourn Plenary.

- Rocky thanked everyone for their participation and adjourned the meeting.