



THE GOLD STANDARD FOR AVIATION SINCE 1935

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August 11<sup>th</sup>, 2017

**SUMMARY OF THE SEVENTIETH MEETING**

**RTCA SPECIAL COMMITTEE 135**

**ENVIRONMENTAL CONDITIONS AND TEST  
PROCEDURES FOR AIRBORNE EQUIPMENT**

The Seventieth meeting of RTCA/SC-135 was held August 11<sup>th</sup> via telephone conference.

The following were in attendance:

Bradley Green, RTCA SC-15 Chairman  
Gary Smith, SC-135 Secretary\*  
Rebecca Morrison, Program Director

Erik Borgstrom  
Nick Conquest  
David Jennings  
Howard Jordan  
David Kerr  
Donald MacDonald  
Kyle McMullen  
Terry Milks  
Lee Nguyen  
Mario Rinaldi  
Harlan Sharpe  
Jacob VanDyke  
Merrill Vaughan  
Ruben Vazquez  
David Walen  
Raymond Zhao

Honeywell International, Inc.  
Honeywell International, Inc.  
RTCA, Inc.  
Element Materials Technology  
National Institute for Aviation Research (NIAR)  
Rockwell Collins, Inc.  
Textron Aviation  
Garmin Ltd.  
Gables Engineering, Inc.  
National Institute for Aviation Research (NIAR)  
Rockwell Collins, Inc.  
Federal Aviation Administration, Designated Federal Official  
United Technologies Corporation  
National Institute for Aviation Research (NIAR)  
Honeywell International, Inc.  
The Boeing Company  
Applied Avionics Inc.  
Federal Aviation Administration  
Northrop Grumman Corporation

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In Accordance with the Federal Advisory Committee Act – Mr. Lee Nguyen of the Federal Aviation Administration was the Designated Federal Official for this meeting.  
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**The agenda for the meeting was as follows:**

1. Chairman's Opening Remarks, Introductions
2. Review and approve proposed ISRA with SC-228
3. Review and approve changes to the Terms of Reference for SC-135 to support ISRA
4. New / Unfinished Business
5. Review date for Next SC-135 Meeting
6. Adjourn

**Agenda Item 1**      **Chairman's opening remarks, Introductions, Recognize Federal Representative**

The Seventieth meeting of RTCA/SC-135 was called to order at 10:02 AM EDT on the 11<sup>th</sup> of August, 2017. Chairman Brad Green opened the meeting by welcoming those in attendance. Mr. Lee Nguyen was introduced as the FAA representative for SC-135.

SC-135 Program Director Rebecca Morrison presented the RTCA Proprietary Information Policy and Membership Policy.

Brad reviewed the agenda for the meeting and stated that the main work for the meeting was to review get concurrence from SC-135 to support working with SC-228 to establish a new test requirements document for UAVs and surface-based equipment. Attendees were then asked to introduce themselves.

**Agenda Item 2**      **Review and approve proposed ISRA with SC-228**

Inter-Special Committee Requirements Agreement (ISRA) 228-ISRA-004 was proposed by SC-228 to have SC-135 provide guidance for establishing environmental qualification standards and requirements for surface-based unmanned aerial systems (UAS) an associated equipment. The deliverable would be a new RTCA Document with minimum environmental qualification requirements by June of 2020.

After some discussion, a motion was made to accept the ISRA as proposed (available in the SC-135 Workspace). The motion was seconded and passed via electronic show of hands.

**Agenda Item 3**      **Review and approve changes to the Terms of Reference for SC-135 to support ISRA**

To support 228-ISRA-004, the SC-135 Terms of Reference (TOR) must be revised. Based on previous work completed by SC-135, the existing changed TOR will be modified to delete the creation of a Ground Reference Fluctuation test section, and the separation of Power Input requirements into standalone AC and DC sections will be deleted as deliverables in DO-160H. Based on the aggressive schedule proposed for the delivery of the new document, the delivery of Revision H to DO-160 and Revision A to DO-357 will be delayed until December, 2021.

A motion to accept the revised TOR was made and seconded, and the motion was approved via electronic show of hands. The revised TOR is available in the SC-135 Workspace.

**Agenda Item 4**            **New/Unfinished Business**

Based on the approval of the ISRA and new TOR, a new Working Group (WG) will be established to prepare the new document. Existing SC-135 Change Coordinators will be invited to participate in the new WG to help maintain continuity between the existing and new documents. Kyle McMullen will lead the new WG and will establish meeting schedules to begin in September, 2017. Rebecca Morrison will create appropriate folders for the new WG in the SC-135 Workspace.

**Agenda Item 5**            **Review date for next SC-135 meeting**

The next SC-135 meeting is scheduled for October 24<sup>th</sup> through the 27<sup>th</sup> in Wichita, KS. Detailed Working Group meeting schedules will be arranged in advance, and a day and a half will be scheduled for the Plenary session.

**Agenda Item 6**            **Adjourn**

A motion to adjourn the meeting was raised, seconded and approved. Chairman Green adjourned the meeting at 11:06 AM EDT on Friday, August 11<sup>th</sup>, 2017.

Certified as a true and accurate summary of the meeting.

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Bradley Green  
Chairman

-S-  
Gary Smith  
Secretary