



RTCA, Inc.
1150 18th Street, NW, Suite 910
Washington, DC 20036
Phone: (202) 833-9339
Fax: (202) 833-9434
www.rtca.org

RTCA Paper No. 069-16/SC230-015
Date: January 14, 2016

RTCA SC-230 Plenary 6 (January 12 - January 14, 2016) - Meeting minutes

Attendance list:

Name	Company	Attendance
Jeanneau, Charlotte	Airbus	*
Caruhel, Camille	Airbus	x
Campagna, Franck	Airbus	x
Tschacher, Luke	The Boeing Company	x
Nguyen, Lee	Federal Aviation Administration	x*
Blake, William	Garmin	x
Gidner, Dawn	Honeywell International, Inc.	x
Harrah, Steve	NASA	*
Scott McBride	MI Technologies	*
Finley, Jeff	Rockwell Collins, Inc.	x
Fersdahl, Mark	Rockwell Collins, Inc.	*
Moses, Harold	RTCA	x
Tatas, Hulya	STM A.S	x
Danilov, Vladimir	GosNIAS	*
Lug, Matthew	U.S. Air Force	*

* - Via Telecon/WebEx

x - In person



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January 12, 2016

We went through the FRAC process so that we all understand what the next steps are for DO-220 and DO-213.

We walked through the meeting minutes from the September 2015 Plenary and the meeting minutes were approved as written. Meeting minutes are posted on the RTCA Workspace.

DO-220 Review (WG 1-6)

The day was spent addressing comments on DO-220 and all notes are recorded in the RTCA Workspace comment resolution fields. There is only one open item on DO-220, which is a determination of whether rotorcraft turbulence and windshear detection should be included or be mentioned elsewhere in the document. A meeting is scheduled for 4:00 on 1/13/16 to conclude the discussion.

January 13, 2016

The morning and early afternoon were spent addressing comments on DO-213 and all notes are recorded in the RTCA Workspace comment resolution fields.

There was a side meeting to discuss the potential for including rotorcraft applications of turbulence detection and windshear into DO-220. After discussion with other FAA members, it was suggested that perhaps the place for this feature would be within the Atmospheric Threat Awareness (ATA) section (2.2.5). Section 2.2.5 was updated to expand the examples of potential ATA functions to include rotorcraft turbulence and rotorcraft turbulence and separate changes were made to clarify other areas of the document are 'fixed-wing' turbulence and 'fixed-wing' windshear. Other areas of the document were cleaned up accordingly where rotorcraft was mentioned. This text will be reviewed with the team on 1/14/2016.

January 14, 2016

We started the meeting by wrapping up the conversation on rotorcraft turbulence and windshear inclusion in the ATA section of the document. Everyone was in agreement with the updates made to the document. This was the last remaining discussion / comment on DO-220A.

We next began to work through the remaining DO-213A comments in the RTCA Workspace. The majority of the time was spent discussing the revisions to Appendix D with the new sidelobe level determination figures and text. After a lot of discussion, the appendix update was agreed to by all participants. Dawn took an action to updating format within the document. Scott took the action to update figures within Appendix D and pass that information on to Dawn. Dawn will then incorporate the changes into the main DO-213A document.



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We went over a proposal from the FAA to release a TSO for the Radome which would reference DO-213. In general, there were no large objections to the proposal, though the FAA is going to provide a draft of the TSO to members of the team for review and further discussion on the benefits of the subject.

The current status and upcoming events for EUROCAE WG-95 (RTCA SC-230 WG-8) was provided by the committee chair (Camille).

Three additional items were brought forward by Camille for discussion among the team:

- (1) The potential for an update to ED-38 to align with the new release of DO-220A.
 - Conclusion was that the committee supported the idea of updating the document to mimic DO-220 as much as possible and/or inquire whether the ETSO or ED update can simply reference and/or copy DO-220 directly. Camille took the action to coordinate with EUROCAE on the subject.
- (2) The potential for update to AC 20-182 as a result of the changes made to DO-220A. The FAA (Lee) agreed to release his current draft updates for AC 20-182 to the aircraft manufacturers and other interested group members for review and further discussion.
- (3) EASA has released a report stating they are recommending further discussion on the potential for extending the PWS alert region to higher altitudes than the current 1200 ft AGL. At this time, the team determined no action would be taken unless the authorities officially request further action based on input from others in the industry (i.e. EASA, airlines, etc.) No further action is being taken at this time by SC-230 around this subject.

Finally, with the appendix updates pending and closure of the applicable action items identified on the next page. The motion to approve DO-220 and DO-213 was made by Jeff Finely, seconded by William Blake and carried.

Action Items:

Action #	Action Details	Assigned to	ECD or Closure Date
1	Send DO-220 updates for rotorcraft functions (namely turbulence and microburst detection) to the FAA (Lee and Kirk Baker) for concurrence.	Dawn Gidner	<i>Complete</i> 01/14/16
2	Provide updates to the figures in Appendix D as follows and provide them to Dawn for incorporation into the main document: <ul style="list-style-type: none"> • 2 New Figures - The update will create new figures to show the sidelobe and mainlobe envelope figures separately as well as keep the current combined figure. • Figure D-1 - Update the figure to emphasize the black curve (reference SLL curve). • Figure D-1 - Update to include labels/arrows for defining the envelopes on the graph. • All Figures - Update the y-axis label to Amplitude (dB). • Figure D-5 - Updated to show the peak of category two specification on the graph (y-axis upper bound at +2dB or greater). • Confirm figures created from Table 2-2 are correct. 	Scott McBride	<i>Complete</i> 01/15/16
3	An action was taken to take one last look through both documents to ensure proper format and accept all changes incorporated as part of this FRAC and actions 1 and 2 above.	Dawn Gidner	<i>Complete</i> 01/18/2016
4	Post redlined copies of DO-220 and DO-230 on the RTCA workspace.	Dawn Gidner	<i>Complete</i> 01/18/2016
5 **	Luke to post January Plenary Meeting Minutes	Luke Tschacher	<i>Complete</i> (1/18/2016)
6	Committee to provide concurrence to Dawn/Jeff for the redlined copies of DO-220 and DO-213 (Note: No response by 1/20/2016 will signify acceptance).	SC-230 Members	<i>Complete</i> 01/20/2016
7	Documents to be transmitted to the RTCA for PMC preparation.	Dawn Gidner	<i>Complete</i> 01/22/2016
8 **	Camille took an action to work with EUROCAE to determine the possible next steps for ED-38 and coordinate the results of the conversation with the team.	Camille Caruhel	02/18/2016
9 **	Lee will provide interested members of SC-230 with a draft AC 20-182A for further review/comment/discussion.	Lee Nguyen	02/18/2016

** These items are not required to be closed for the closure of DO-220 and/or DO-213.