

MINUTES OF THE EIGHTEENTH MEETING

RTCA Special Committee SC-222

Aeronautical Mobile Satellite (Route) Services

February 27, 2015

The eighteenth meeting of RTCA Special Committee SC-222 was held at RTCA in Washington, DC.

The following participated either by attending in person or dialed in by phone and Webex (shown by *):

Dr. E.F.C. LaBerge, Co-Chairman	EFC LaBerge Engineering & Analysis, LLC
Dr. Orville Nyhus, Secretary*	Honeywell International, Inc.
Mr. David Robinson, Designated Federal Representative	Federal Aviation Administration/AIR 130
Bill Bowen*	Rockwell Collins
Victor Gheorghian	Bombardier
Jose Godoy	ARINC
David Green*	Rockwell Collins
Jun Han*	Rockwell Collins
Matt Hills*	CMC Electronics
Jennifer Iversen	RTCA
Bob Lehman*	Honeywell International, Inc.
Alan Schuster-Bruce*	Inmarsat
Glenn Torgerson*	Boeing

Introductory Remarks

Dr. LaBerge opened the meeting at 9:30 AM EST on February 27, 2015, with introductory greetings and remarks. He then called for introductions of the attendees in attendance, both on-site and on-phone.

David Robinson made an FAA statement.

Jennifer Iversen Reviewed RTCA Policies related to Special Committees.

Dr. LaBerge reviewed WP-159 which contains the minutes of the seventeenth meeting of SC-222. The need for a number of corrections were found by the group and the minutes were corrected by Dr. LaBerge as the corrections were identified. With those changes made the minutes were approved by the group.

Dr. LaBerge introduced the current Draft DO-210D Change 4 document. David Robinson questioned the cross references in Table 2-15.A between the Inmarsat SDM and DO-210D. These issues were dealt with via Working Paper WP-160 which was presented by Bob Lehman. WP-160 discusses external references in DO-210D to Inmarsat SDM Modules. Bob recommends that references to Inmarsat documents not be updated in DO-210D. Bob recalls that Inmarsat had agreed to archive those Inmarsat documents for future reference in RTCA documents. Alan Schuster-Bruce stated that he has no evidence that Inmarsat archives those documents. The decision of the committee was to not change those references. Alan Schuster-Bruce agreed with that decision.

Dr. LaBerge presented comments for the Change 4 FRAC document.

Rockwell Collins provided recommended changes for the environmental tables. Bob Lehman recommended accepting those changes. Jun Han commented that those changes are based on DO-262B Appendix E for SBB,

Dr. LaBerge reported that coordination between Richard Tapp and James Klopfenstein has not happened as expected.

Dr. LaBerge pointed out that RTCA documents allow equivalent test methods by showing equivalency with the specified tests.

Dr. LaBerge, per Jun Han's request, added Note 22 to Table 2-15 for Section 2.2.4.1.2, Receiver Sensitivity, in Column 22.

It was noted that environmental requirements do not require verification tests after application of some of the environmental conditions such as humidity. This may be an issue with DO-262B also and may require a change document for DO-262B also. This is considered a serious concern that may delay issuance of FRAC and may delay its submission to the PMC. This remains an open, unresolved issue.

There are a number of editorial comments in the FRAC comments. Dr/ LaBerge volunteered to handle all the editorial comments that represent no substantial change to the document.

There was discussion about an inter-modulation (IM) limit at -115 dBm versus -128.5 dBm. This issue was resolved during the discussion. Dr. LaBerge took an action item to address spectrum spreading effects of IM.

The latest date for submission of the FRAC for the March PMC meeting is 9 or 10 of March. The following PMC meeting will be in June.

Dr. LaBerge will organize a working group meeting to deal with the Table of Environmental Tests during the week of March 2nd to deal with Table 2-15 issues by March 9/10 or the FRAC will be delayed until June.

David Robinson agreed that Dr. LaBerge can decide whether or not to accept the decisions of the working group regarding environmental issues.

Action Items

Dr. LaBerge: Address spectrum spreading effects of inter-modulation (IM).

Dr. LaBerge: Organize a working group meeting to deal with the Table of Environmental Tests during the week of March 2nd to deal with Table 2-15 environmental issues.

Future Plans

The next plenary meeting is a joint meeting with ICAO WG-82 on April 14 in Brussels. Webex, etc., information for this meeting will be forthcoming.

SC-222 needs to determine what work needs to be done at the joint meeting and come up with a work plan. Is cooperation with ICAO Centrum needed?

SC-222 Information Website

SC-222 material is found at <http://workspace.rtca.org>. For help contact Jennifer Iversen at RTCA, 202-330-0662, or jiversen@rtca.org.

Adjournment

Dr. LaBerge adjourned this plenary meeting at 11:35 AM EST on February 27, 2015.

**LIST OF PAPERS PRESENTED AT THE 18th MEETING OF SC-222,
February 27, 2015 at RTCA**

WORKING PAPER No.	AUTHOR	DATE	TITLE
WP-159	O. Nyhus	1/26/2015	Minutes of the 17 th Meeting of SC-222
WP-160	B. Lehman	2/6/2015	DO-210D AMSS MOPS Reference Document Versions