

RTCA Paper No. 226-21/SC209-045
August 16, 2021

TWENTY SECOND MEETING

RTCA SC-209

ATCRBS / MODE-S TRANSPONDER

DATE: August 16th, 2021

PLACE: Webex/Telcon

The attendees included:

SC-209 Chair

Thomas Pagano The Regulus Group
Matthew Erickson L3Harris

WG-49 Chair

Eric Potier EUROCONTROL

SC-209 Government Authorized Representative

Matthew Haskin Federal Aviation Administration

SC-209 Secretary

Timothy Steiner Federal Aviation Administration

Participants during all, or part, of the meeting (names provided are from the WebEx sign in):

Al Secen (RTCA)
Eric Jauny (DSNA)
Steve Darr
Miles Bellman
N Demidovich
Tim Steiner
Matt Erickson
Ian Maccoomb
Doug Arbuckle
Randy Jacobson
Matthew Erickson Collins
Eric Potier
Todd Skoog (Garmin)
Stuart Mckay (UK CAA)
Tim Hayosh
Jack Field
Tom Pagano
Anthony Lombardo
Tim Steiner
Larry Kenney (RTX)
Matt Haskin
Ed Hahn / ALPA
Jessie Turner
Alexander Engel
Jen Scott
Alex Rodriguez

**** Note: All files named herein can be downloaded from the RTCA workspace. ****

SC-209 Plenary Files:

<https://aeropus.i3cloudservices.com/Group/GroupLanding/100?tab=Documents>

The twenty second meeting of RTCA Special Committee 209 was held on August 16th, 2021 via Webex/Telcon. While not a joint Plenary with WG-49, representatives from EUROCAE were present in consideration of the intent of the meeting. This meeting was held in order to attain Committee approval for changes to the Terms of Reference (ToR) in order to initiate activity for the development of a Change 1 to the RTCA DO-181F / EUROCAE ED-73F MOPS. This meeting was held prior to the SC-186 Plenary which included on its agenda a similar action for the ADS-B 1090ES MOPS. The CSC is composed of four committees: RTCA SC-209 WG-1, EUROCAE WG-49, RTCA SC-186 WG-3, and EUROCAE WG-51 SG-1. This is a change

1. Introduction and Welcome for SC-209

The meeting was called to order by SC-209 Co-Chair Thomas Pagano of the Regulus Group at 10:03 AM (EDT) on August 16th, 2021. Mr. Pagano began the meeting with a welcome to all participants and then turned the meeting over to Al Secen of the RTCA for a policy review.

Al Secen welcomed all attendees to the Plenary and then, following a brief review of the agenda, covered the membership policy and both the anti-trust and propriety information policies. Additional information was provided as to the unique circumstances that precluded the Plenary meeting from being held in person.

Mr. Pagano presented some additional introductory remarks regarding the nature and intent of the meeting – namely for agreement to present a ToR change to the RTCA Program Management Committee (PMC) to begin work on a Change 1 to RTCA DO-181F. The EUROCAE WG-49 Chair, Eric Potier, and Liaison Alex Engel were both welcomed along with confirmation by Mr. Pagano that the development effort would be undertaken jointly with EUROCAE. The result being a Change 1 to both RTCA DO-181F and EUROCAE ED-73F. Mr. Potier and Mr. Engel agreed that coordination would ensure continued alignment between the MOPS.

SC-209 Co-Chair Matt Erickson provided his welcoming remarks, and the Committee was informed about the SC-186 Plenary which would follow this meeting.

2. Review of Agenda

The agenda was briefly reviewed. The single purpose of the meeting was identified to be Committee agreement on an updated ToR to reactivate from Active Monitor state in order to develop a Change 1 to Mode S Transponder MOPS (RTCA DO-181F).

3. Review of Minutes from the 21st Meeting of SC-209

Tom Pagano and Al Secen confirmed to the Committee that the Minutes from Meeting 21 of SC-209 had been posted to the RTCA Workspace in March of 2021. The floor was opened for comments and/or corrections to the Minutes. With no comments received, Matt Erickson presented a motion to accept the

Minutes as posted. Jessie Turner seconded the motion, and the Minutes from SC-209 Meeting 21 were accepted.

(Summary Plenary 21.pdf)

4. ToR update to set SC-209 back to Active Status

Tom Pagano began the discussion of the ToR with a presentation which detailed the status of SC-209 and the need for a Change 1 to DO-181F. While a total of 12 issues had been identified to date, the main driver for the Change 1 to the Transponder MOPS was related to the Basic Dataflash application. Development work in ICAO had identified potential concerns related to frequency of register updates and corresponding test procedures. Issues related to RTCA DO-260C were noted but not discussed during this meeting.

Mr. Pagano indicated that the intent would be to continue the concurrent development of both the Transponder and ADS-B 1090ES MOPS (DO-181F and DO-260C) in a joint effort with EUROCAE (ED-73F and ED-102B). In acknowledgement of this agreed framework, Alex Engel noted that EUROCAE had already approved WG49 and WG51 SG1 had already received approval by the Counsel to reactivate for this purpose.

The Committee discussed the language in the ToR along with the expected date of delivery of the final Change 1 to RTCA. Mr. Secen agreed to edit the ToR document according to the result of the discussion, and informed the Committee that the ToR would be submitted for an electronic ballot to the PMC. An anticipated approval date of Monday, August 23rd was identified. Following approval by the PMC, Mr. Secen further agreed to post the final Terms of Reference to the RTCA Workspace.

Upon conclusion of the discussion of changes to the ToR, Matt Erickson motioned for approval of the ToR. Jessie Turner seconded the motion, and the Committee moved on to discussion of schedule and timeline.

(SC209 Status Brief - 08-16-2021 Plenary.pdf)

(SC-209 TOR Rev 9 Final Draft.pdf)

4. DO-181F Change 1 Plan and Schedule Review

The discussion of the timeline for the development of Change 1 began with an overview of the proposed meeting schedules. Matt Haskin, the Government Authorized Representative for SC-209, explained to the Committee that the primary schedule driver was not DO-181F Change 1 but, rather, DO-260C Change 1. The Change 1 for DO-260C was required in order to publish a revision to TSO-C166.

With the expectation that work would be permitted to begin prior to the September PMC meeting (due to the electronic ballot for the ToR changes), the Committee discussed moving the meeting schedule up in time. The decision was made to leave the planned meetings in place and use the extra time for development of MOPS change proposals.

Jessie Turner asked about the potential for an out-of-sequence approval by the PMC. Mr. Secen suggested that due to the limited scope of the Change 1 it would likely be acceptable and agreed to propose this means for approval (along with the rationale for doing so) to the PMC. If deemed acceptable, Mr. Secen indicated the potential for a mid-January 2022 acceptance date – given a delivery date of December 2021. This would enable an accelerated time to TSO revision since the approval would not have to wait until the March 2022 PMC.

With the confirmation that Plenary approval would not be required for regular Committee meetings – only for ToR changes, FRAC and Document approvals – the Committee proposed the following schedule:

- 23 August (Monday): Electronic Ballot approval of Terms of Reference
- 27 – 28 September (Monday – Tuesday): CSC Meeting #1 (Proposal Review)
- 12 – 13 October (Tuesday – Wednesday): CSC Meeting #2
- 21 October (Thursday): SC-209 Plenary to enter FRAC
- 26 October (Tuesday): Start of FRAC
- 10 December (Friday): End of FRAC
- 15 – 16 December (Wednesday – Thursday): CSC Meeting #3 (Comment Resolution)
- 17 December (Friday): SC-209 Plenary to approve Change 1 to DO-181F
- (mid January 2022): (anticipated) out-of-sequence PMC approval

(SC209 Status Brief - 08-16-2021 Plenary.pdf)

5. Other Business

Upon completion of the schedule discussion, Tom Pagano opened the floor to the Committee for any additional business. No additional business was raised for discussion.

6. Adjournment

With no further actions or other business before the committee, Tom Pagano thanked everyone for their participation and adjourned the Plenary at 10:55 AM (EDT).

- S -

Timothy Steiner
Secretary, SC-209

CERTIFIED as a true and accurate summary of the meeting.

- S -

Thomas Pagano
Co-Chair, SC-209

- S -

Matthew Erickson
Co-Chair, SC-209