

RTCA Paper No. 014-07/SC209-012
Minutes of Meeting #06 of RTCA SC-209
For The Maintenance of the ATCRBS & Mode-S MOPS
<http://adsb.tc.faa.gov/SC209.htm>

The Joint Plenary Session of RTCA/SC-209 Meeting #6 and EUROCAE WG-49 was called to order by SC-209 Co-Chair and Meeting Host, Robert Saffell of Rockwell Collins at 9:00am EST, 29 January 2007, at the facilities of the Crowne Plaza Hotel in Melbourne Florida. Mr. Saffell offered the regrets to attendance by Co-Chair Tom Pagano because of other commitments that Tom has been requested to support. Mr. Saffell then welcomed all attendees and asked that each attendee introduce themselves and their organization. The attendees for all or part of the meeting included the following:

Mark Annee, representing U.S. Navy	Roland Mallwitz, DFS, Germany (WG-49)
Yves Auchineau, Rockwell Collins	Bob Manning, L-3 / Govt Services (phone)
Raymond Bayh, BAE Systems	Pete Muraca, FAA TC (phone)
Woody Bode, Freestate Electronics	Eric Potier, Eurocontrol, Brussels (WG-49)
John Fisher, Consultant U.S. Air Force	Tom Pagano, FAA Tech Center – AJP-1850
Gary Furr, L-3/Titan, FAATC–AJP-1850	Robert Saffell, Rockwell Collins
Doug Guetter, L-3 / ACSS	William Thedford, Consultant, U.S. Air Force
Ron Harris, Freestate Electronics	Nolan Van Foeken, Garmin International
Antoine Herve, DGAC (French CAA) (WG-49)	Don Walker, Honeywell International
Richard Jennings, FAA, AIR-130	Leo Wapelhorst, L-3/Titan, FAATC-AJP-1850
Andrew Leone, FAA Tech Center	Jerry Woodall, Raytheon Electronic Combat Systems

1. Agenda Item #1

- 1.1 Robert Duffer, the Designated Federal Official, was unable to be at the meeting in person and was replaced as DFO for this meeting by Richard Jennings of the FAA AIR-130 organization. Mr. Jennings additionally welcomed all attendees.

2. Agenda Item #2

- 2.1 With the proposed Joint Session Agenda displayed, Bob Saffell asked if there were any suggested additions or changes to the Agenda for this meeting. There was an additional item offered by Bill Thedford and John Fisher to review the comparison of the generalized test procedures between the drafts of ED-73C and DO-181D. After this addition, Mr. Saffell declared that the Agenda was accepted as amended and began to progress on the Agenda as offered to the Joint Plenary Session.

3. Agenda Item #3

- 3.1 Mr. Saffell referred to Agenda Item #3 to discuss the Minutes of SC-209 Meeting #5, which were presented to the Joint Plenary Session as Working Paper SC209-WP06-02. There were no comments regarding the Minutes of Meeting #5 and the Minutes were accepted by the Joint Plenary Session as presented in Working Paper SC209-WP06-02.

3.2 Mr. Saffell drew the attention of the Meeting to the section of the Meeting #5 Minutes where reference was made to the agreement by SC-209 during Meeting #5 to add language to DO-181D for dealing with non-standard 24-bit addresses. Mr. Saffell indicated that there needed to be an Agenda Item added to this Joint Plenary Session since a change was made by SC-209 in the draft of DO-181D during Meeting #5 and WG-49 members have indicated that they believe that a change needs to be made to the language that was changed by SC-209.

4. Agenda Item #4

4.1 The Session then heard from Roland Mallwitz for the activity status of WG-49 activities. He indicated that WG-49 was working on changes to ED-73 and ED-101. WG-49 has just lost their Chairman, Bev Nichols to retirement. WG-49 had planning a meeting in March to finalize the work on ED-73, but just as these Minutes were being prepared for publication, an email was distributed from Eurocae indicating that this meeting was cancelled. During their last meeting, they had some discussion on the proposed Appendix B of DO-181D and they had agreed that they could also use that Appendix for ED-73C. Mr. Mallwitz thanked SC-209 for the opportunity for this Joint Plenary Session.

5. Agenda Item #5

5.1 The Committee continued with the Agenda by going on to Agenda Item #5 with a presentation of Working Paper SC209-WP06-08 by Bob Saffell to summarize the discussion of the current status of the work on the update of the Transponder MOPS, RTCA/DO-181D. Rich Jennings commented on the effort to coordinate with EASA to harmonize the TSOs in USA and Europe with the publication of both ED-73C and DO-181D.

5.2 Rich Jennings also discussed briefly the effort for updating RTCA/DO-144 and the accompanying TSO for the ATCRBS MOPS. Bill Thedford asked if the draft of RTCA/DO-144 had been reviewed with the objective of coordinating it with parts of RTCA/DO-181 since the military would be required to comply with RTCA/DO-144. After discussion it was agreed that if the transponder in the military aircraft was certified for use with RTCA/DO-181D, then it would be certified also as an ATCRBS transponder. Roland Mallwitz indicated that there were ghost tracks that were created by Mode A/C transponders that were ~~created by P1 issues that werenot~~ suppressed by the proper P1/P2 of a Mode S interrogation and then subsequently doing a P3 decode. Roland asked Rich to ensure that this issue was reviewed during the RTCA/DO-144 update process. Eric Potier indicated that there should be a test to ensure that ATCRBS realizes that Mode S exists.

5.3 Bob Saffell indicated that one of the remaining issues includes the resolution of the Hijack Mode. ED-73C still has the Hijack Mode implemented in the document, whereas DO-181D does not have the update applied. Rich Jennings indicates that there is a effort for the FAA to cancel the NPRM, requiring the Hijack Mode, in an official release of the Federal Register. Roland Mallwitz indicated that there are discussions

within ICAO to include the Hijack Mode and since ED-73C has it implemented, then WG-49 would be reluctant to make a decision to remove it until all of the issues are resolved. After discussion, it was suggested that SC-209 include the Hijack Mode update into a separate Appendix of the updated RTCA/DO-181D. Bill Thedford requested that a statement be entered into the proposed Appendix which would make clear what the information was being provided for. Roland Mallwitz agreed to accept Action Item 6-1 to discuss the issue with the Eurocae Technical Secretary to see what he thinks about the issue of removing the Hijack Mode from ED-73C.

6. Agenda Item #6

- 6.1 The Committee continued with Agenda Item #6 to discuss and finalize the issues related to the SC-209 proposed breakdown of the Level 2 transponder. Bob Saffell began the discussion with a presentation of Working Paper WG49N9-13 in which he summarized the issues related to the proposal to break down the Level 2 Transponder. Bob then moved to the Working Paper WG49N9-17, which was the WG-49 response to the SC-209 proposal, and Bob summarized the response from WG-49.
- 6.2 Don Walker spoke up and went through the explanation of why this break down of Level 2 Transponders was started to begin with. Don indicates that Honeywell does not now support, and probably has no need in the future to support, the ADLP. Honeywell is looking for a way not to have to provide all of the work required to continue supporting the possibility of supporting the ADLP, including the tracking of, and execution of, test procedures. Roland Mallwitz indicated that WG-49 felt that changing the definition in Level 2 would create confusion and offered an option to resolve the issue of setting up two certification levels (Level 2-C1 and 2-C2), which would refer to the communications functions implemented in the GFM, e.g., No Comm-A, no Multisite communications, and no linked Comm-A or B, etc. There was a discussion on the use and implementation of Dataflash, since it will be required soon in Europe, and it requires the use of Comm-A and Comm-B protocol. Roland also indicated that there was a transponder certified recently which is “less than” a full Level 2 Transponder, and he referred to ED-115 which is a document that defines a “Level 2” class of transponder for light aviation. In the end, the Joint Plenary Session agreed that these working papers would be kept under advisement, but during the mean time there would be no suggested changes in ED-73C, DO-181D or ICAO documents.

7. Agenda Item #14a

- 7.1 The Committee continued with the Agenda by going on to item #14a because of the availability of Pete Muraca, who was not able to be at the meeting in person. Pete called into the telephone bridge and presented Working Paper SC209-WP06-04, which was the summary of the status of the work performed to take RTCA/DO-218 and preserve it as Appendix B for the Mode-S Specific Services, in the proposed RTCA/DO-181D.
- 7.2 Eric Potier questioned the details of the test procedures for the GICB Registers. Bob Saffell indicated that there are detailed test procedures in the body of RTCA/DO-181D for some of the GICB Registers for Elementary and Enhanced Surveillance. Eric indicated that he felt that there should be generic test procedures included.

7.3 The issue of supporting “Dataflash” was raised and it was established that the definition of the requirements and test procedures for Dataflash are not in the proposed Appendix B, but they do appear in ED-101. This raises the issue of harmonization between the documents. There was discussion about whether or not SC-209 was required to list the Dataflash requirements since that defined an application. During the discussion, it was suggested that SC-209 could take the information provided in ED-101 and create a separate Appendix for the Dataflash application to be provided in RTCA/DO-181D. It was agreed by the Joint Plenary Session that SC-209 would take the requirements and test procedures in the update to ED-101 and create an Appendix to be provided with RTCA/DO-181D. Gary Furr accepted Action Item 6-2 to implement this action.

8. Agenda Item #7

8.1 The Joint Plenary Session continued with the Agenda by going on to item #7 to discuss the issues related to SC-209 Action Item 2-2 relating to Reply Rate Requirements. Bob Saffell offered the Joint Plenary Session a summary of the requirements for Reply Rate Capability from ICAO Annex 10, Volume IV, §3.1.1.7.9, Eurocae ED-73C, §3.4 and RTCA/DO-181D, §2.2.3.4. Bob pointed out that the requirements in ICAO match those in ED-73C, but those in DO-181D are different and appear to have been different all the way back to at least DO-181A that can be confirmed by electronic copies of documents. Bob suggested that each Transponder vendor explore how their equipment meets the specific requirements of ICAO/ED-73C and DO-181X. Action Item 6-3 was assigned to all Hardware Vendors and they were requested to make results of these tests available in the late February timeframe so that the results could be available and reviewed prior to the next currently planned SC-209 and WG-49 meetings. This remains as a difference in the two Transponder MOPS documents until further investigation can be performed and results can be reviewed.

9. Agenda Item #9a

9.1 The Joint Plenary Session continued with the Agenda by going on to item #9a to discuss the issues related to non-standard 24-bit addresses. This issue goes back several meetings and is documented in paragraph 9 of the Minutes to SC-209 Meeting #5. During Meeting #5, SC-209 agreed to make changes to draft version 0.6 of DO-181D, §2.2.13.1.1a, which attempted to implement the spirit of the text that WG-49 had previously agreed to in the draft of ED-73C. However, WG-49 members now indicate that they are not agreeable to the revised text since they have had the time to review the proposed changes during their early January Meeting #9. After discussion, and review of the latest draft of ED-73C, the Joint Plenary Session agreed to take the exact text of section §3.17.1 from the latest draft of ED-73C and replace the previously agreed to text in DO-181C, §2.2.13.1.1. This action was performed during the meeting to what will become draft version 0.7 of DO-181D.

10. Agenda Item #8

10.1 The Joint Plenary Session continued with the Agenda by going on to item #8 to discuss the issues related to the process of setting the MCP/FCU Mode Bits in Register 40₁₆.

The Session reviewed documents that had been presented the previous week at the ICAO ASP TSG meeting with respect to additions to Guidance Materials that were added to ICAO Doc 9871, §C.2.4.4 for Register 40₁₆. Attention was drawn to the materials in §C.2.4.4 and the conflicts with existing Guidance Materials in the notes 16 and 19 following Doc 9871, Table C-1-6. After discussion, it was agreed that we would not include any of the specific Tables C-1-1 through C-1-6 from Doc 9871 into the draft of Appendix B. Further, Action Item 6-4 was accepted by Gary Furr and Andy Leone to copy Guidance Materials from Doc 9871 §C.2.4.4 into Appendix B, and to insert the text from Doc 9871 §A.2.1.1 into the appropriate place in Appendix B.

11. Agenda Item #10

11.1 The Joint Plenary Session continued with the Agenda by going on to item #10 to discuss the issues related to Interrogation Recovery Test Procedures as documented in Working Paper WG49N8-17 and in the draft version 0.6 of DO-181D, §2.4.2.6. Bob Saffell made comments with respect to the changes that Eric Potier has identified in the test procedures in WG49N8-17, specifically in the added steps under what was previously “Step 7.” Bob Saffell accepted Action Item 6-5 to update the text in WG49N8-17 to be proposed for insertion into the draft of DO-181D and add UF11 prior to the next SC-209 meeting.

12. Agenda Item #12

12.1 The Joint Plenary Session continued with the Agenda by going on to item #12 to discuss the issues related to the philosophies of environmental testing between the current drafts of ED-73C and DO-181D. The drafts of both documents were displayed and various sections of the environmental tests were reviewed. Bob Saffell pointed out several situations where the environmental tests in ED-73C were more stringent than in DO-181D and also more stringent than required. Antoine Herve agreed to take Action Item 6-6 to review the environmental test procedures in ED-73C and make a recommendation to WG-49 during their next meeting on how to harmonize this section with the draft of DO-181D.

13. Agenda Item #13

13.1 The Joint Plenary Session continued with the Agenda by going on to item #13 to discuss the issues related to changes that have been accepted into the ICAO Annex 10 SARPs that will need to be considered during the updates of both ED-73C and DO-181D. The Session was directed to Working Paper WP B7-43R3 as the set of SARPs changes that were proposed in the SCRSP Working Group meeting in Montreal in 2004 to make changes to ICAO Annex 10, Volume IV. The first issue was the change proposed to add a new paragraph §3.1.1.7.8.1 for “*Random triggering rate in the presence of low level in-band CW interference.*” The second issue was the proposed change to add paragraph §3.1.2.10.1.1.4 for “*Reply ratio in the presence of low level in-band CW interference.*” Bob Saffell agreed to accept Action Item 6-7 to review the draft of the requirements and the test procedures for the CW Interference that was previously drafted and [presented in Working Paper WP B5-10]. If the content of WP B5-10 is complete, then Gary Furr will insert the text into the appropriate place in the next draft revision of DO-181D.

| 14. Agenda Item #14c

14.1 The Joint Plenary Session continued with the Agenda by going on to item #14c to discuss the issues related to providing the requirements and test procedures for the addition of Elementary (ELS) and Enhanced (EHS) Surveillance into both of the MOPS documents as described in Working Paper SC209-WP06-05. Bob Saffell had previously presented a Working Paper to WG-49 in their early January meeting, which proposed the addition of §2.2.24 and §2.2.25 in the draft of DO-181D and the addition of §2.6 and §2.7 for the respective test procedures, as they are currently presented in SC209-WP06-05. There were some discussions related to the structure of the presentation of the ELS and EHS requirements in the Working Paper. We stepped through the Working Paper with Bob describing the reasoning behind each paragraph. Bob indicated that further refinement was necessary in both the requirements and test procedures.

15. Agenda Item #16b

15.1 The Joint Plenary Session continued with the Agenda by going on to item #16b to discuss the issues related to differences in the two MOPS documents as documented in a new Working Paper that was made available during the meeting, SC209-WP06-09. The Session began by stepping through Working Paper SC209-WP06-09 reviewing in detail the differences expressed between ED-73C and DO-181D, §2.4.

During the review, Bob Saffell accepted Action Item 6-8 to review the difference in §5.4.2.2.2.b in ED-73C with §2.4.2.2.2, Step 2 in DO-181D, and resolve the differences identified in SC209-WP06-09.

All hardware vendors accepted Action Item 6-9 to review the differences identified and report back at the next SC-209 meeting.

Bob Saffell accepted Action Item 6-10 to review and edit a new test procedure copied from ED-73C to test the invalid addresses for all zeros and all ones in §2.4.2.12.1 (for Fixed Data). During the review of §5.4.12.2.2 in ED-73C, an addition to this Action was added to review the need for a test procedure to be inserted for "Variable Data" in DO-181D, §2.4.2.12.2. This may only be appropriate for military aircraft. WG-49 members present agreed to accept Action Item 6-10 to review this section for potentially removing it from the draft of ED-73C.

In §5.4.12.3.2 in the draft of ED-73C, in step #2, the difference includes the exclusion of UF=24. WG-49 members present accepted Action Item 6-12 to review why this is different from §2.4.2.12.3, Step 2 in DO-181D.

In §5.4.12.3.2 in ED-73C, in step #7, WG-49 will review the differences in both documents and propose alternate language for both documents.

16. Agenda Item #16a

16.1 The Joint Plenary Session continued with the Agenda by going on to item #16a to discuss the issues related to differences in the TCAS test procedure sections of both ED-73C and DO-181D, as described in Working Paper SC209-WP06-06. Bill Thedford began to step through the Working Paper and the Joint Session started reviewing the differences in detail.

WG-49 agreed to accept Action Item 6-13 to review step sections “d” and “e” in the draft of ED-73C, §5.5.8.34 to determine if they are valid. Other discrepancies were reviewed and agreed changes were made in the drafts of either DO-181D or ED-73C.

17. Agenda Item #21

17.1 The Joint Plenary Session continued with the Agenda by going on to item #21 to discuss some open issues related Elementary and Enhanced Surveillance. It was agreed that a new paragraph would be added into §2.2.17 to add a simple statement concerning the fact that ELS is a part of the basic requirements for all Mode-S Transponders. This action was accomplished during the meeting and the language of the inserted text was agreed to by all.

Don Walker of Honeywell asked about an open issue related to setting the Mode Bits in Register 40₁₆. Roland Mallwitz referred to Working Paper WG49N9-22 which was a WG-49 response proposing to add text into DO-181D, §2.2.25.4.2.4 through §2.2.25.4.2.10, which Roland indicated had been reviewed and accepted by Bob Saffell. For the next meeting, we must review the ELS/EHS test procedure section from Bob Saffell to ensure that the suggested text of WG49N9-22 is implemented.

Bob Saffell will have to consider where in DO-181D he will want to place the test procedures for Generic Registers.

18. Agenda Item #16c

18.1 The Joint Plenary Session continued with the Agenda by going on to item #16c to discuss the issues related to differences in the two MOPS documents as documented in the newly submitted Working Paper SC209-WP06-10. The Session began stepping through Working Paper SC209-WP06-10 reviewing in detail the differences expressed between ED-73C and DO-181D, §2.5.

As relates to the differences in Test Procedure #4 (DO-181D, §2.5.4.5 and ED-73D, §5.5.8.5), Gary Furr will provide to WG-49 the working paper number(s) that relate to the reasons why there were changes in this section. This action was accomplished shortly after the end of the Meeting.

With regard to the Validation of On-The-Ground Status, both DO-181D and ED-73C text needs to be checked for consistency with the changes to the Air/Ground Determination and Validation of On-Ground Determination that were accepted in the ADS-B MASPS, 1090ES and UAT MOPS, and UAT and 1090ES SARPs.

Additionally, there is a difference in the way ED-73C and DO-181D handle the On-Ground status, with respect to relating to “1090ES only” or to “everything.” This will require further discussion at our next Joint Plenary Session. Gary Furr accepted Action Item 6-15 after the end of the Meeting to make this review and provide a Working Paper summarizing the required changes, if any.

With respect to Procedure #9 in §2.5.4.8 of DO-181D and §5.5.8.8 of ED-73C, WG-49 accepted Action Item 6-14 to review why the text was written as it is presented.

19. Agenda Item #16d

19.1 The Joint Plenary Session continued with the Agenda by going on to item #16d to discuss the Requirements Comparison Data Base that is provided for review by Bill Theford in Working Paper SC209-WP06-11.

20. Agenda Item #17

20.1 The Joint Plenary Session continued with the Agenda by going on to item #17 to state that the document that was presented to SC-209 in Working Paper SC209-WP06-12 is the current draft of the revision to DO-144. The Joint Session did not review this Working Paper in Joint Plenary Session, but wanted it to be posted on the SC-209 web site for the review members.

21. Future Meeting Dates were discussed for both SC-209 and WG-49. Future meeting dates for WG-49 were originally agreed as 13 – 15 March in Cologne, and 14 – 16 May in Paris. As these Minutes were being released, there was a distribution from Eurocae indicating that the WG-49 meeting in March was cancelled. SC-209 members agreed that all future meetings would be separated into two separate Working Groups to more efficiently handle the completion of both DO-181D and DO-144A. SC-209 Working Group #1 will work with all efforts regarding DO-181D, and SC-209 Working Group #2 will work with all efforts to complete the update to DO-144.

SC-209 members agreed that the next meeting of Working Group #1 would be set for 3 – 5 April 2007 at the RTCA Headquarters in Washington DC. Given the amount of information that still needs to be covered, it was stated that all attending members should plan to remain at the meeting until 5:00pm on 5 April.

22. The list of open Action Items was reviewed during SC-209 Meeting #6, and the summary of Action Items that remained open, or were newly recorded as being assigned and accepted during Meeting #6 are as follows:

Action Number	Open Action Item Descriptions	Assigned to	Status
1-3	Coordinate with Stuart Searight to make sure that all of the TCAS issues are accounted for.	Tom Pagano Gary Furr	Ongoing
2-2	Resolve the differences in the “Reply Rate” requirements in the following sections: (1) DO-181C, §2.2.3.4.1, (2) ED-73B, §3.4.1, (3) SARPs Annex 10, Vol-IV, §3.1.1.7.9	Doug Guetter Bob Saffell	
2-6	Further the restructuring section §2.2 of DO-181 for Meeting #3	Bayh, Saffell, Annee, Guetter	Ongoing

Action Number	Open Action Item Descriptions	Assigned to	Status
3-1	Create a Working Paper which will be submitted to the ICAO ASP TSG which identifies those proposed changes that have been discussed in the revised set of comments. Saffell created WP04-06 and WP04-07 and presented them to WG-49, but more needs to be done with respect to comments 12 through 18 in WP03-04R1. For Meeting #5 Don Walker prepared a Working Paper that SC-209 reviewed prior to submitting it to the ICAO ASP TSG in January 2007.	Don Walker Bob Saffell John Berglund Doug Guetter	Ongoing
3-2	Call manufacturers to try to get more participation in the effort to revise DO-144	Rob Duffer Rich Jennings	Ongoing
3-3	Approach Kevin Hallworth at EASA with the points of discussion regarding the differences in DO-181D and ED-73C and the SARPs on the P4 issue	Rob Duffer	
3-4	Review the proposed changes to the test procedures in §2.4.2.7 with his transponder and DME experts to see what they think about the proposed changes	Bob Saffell	
5-1	Modify the draft of DO-181D to include references to Appendix B and capture MSP processing in the Transponder.	Tom Pagano Don Walker	
5-2	Review all of Section 1 for revisions/additions	Tom Pagano	
6-1	Open a discussion with Eurocae Technical Secretary regarding what to do with respect to the Hijack Mode, which remains in the draft of ED-73C, but has been left out of the draft of DO-181D.	Roland Mallwitz	
6-2	Take the updated version of ED-101 (WG49N9-15) and extract the requirements and test procedures related to the "Dataflash" application and create a new Appendix for the draft of DO-181D.	Gary Furr	
6-3	Run tests on the different requirements for Reply Rate Capability since the requirements that exist in ICAO Annex 10, ED-73C and DO-181D differ. These tests should be run and available for discussion in the late February time frame so that the results could be available and reviewed prior to the next RTCA SC-209 / WG-49 meetings. Find out what the ATCRBS Reply Rate is in the presence of Mode-S.	Rockwell, Honeywell, L-3/ACSS, Garmin, BAE Systems, Raytheon	
6-4	Harmonize Appendix B with materials in the latest Doc 9871, by copying the guidance materials from Doc 9871 §C.2.4.4 into an appropriate place in Appendix B. Additionally, the text from §A.2.1.1 under the Register Table that defines the maximum update intervals, would be copied into an appropriate place in Appendix B.	Gary Furr Andy Leone	
6-5	Revised the test procedures identified in WG49N8-17 for test steps previously in DO-181D, §2.4.2.6, Step 7 and add the test for UF11 prior to Meeting #7 for the review of SC-209.	Bob Saffell	
6-6	Review the environmental test procedures in ED-73C and make a recommendation to WG-49 during their next meeting for harmonizing the two documents.	Antoine Herve	
6-7	Review the draft the CW Interference requirements and test procedures that are presented in Working Paper WP B5-10. If complete, then Gary Furr will insert the text into the next draft of DO-181D.	Bob Saffell Gary Furr	
6-8	Review the difference in §5.4.2.2.2.b in ED-73C with §2.4.2.2.2, Step 2 in DO-181D, and resolve the differences identified in SC209-WP06-09.	Bob Saffell	

Action Number	Open Action Item Descriptions	Assigned to	Status
6-9	Review the difference in §5.4.7.2, steps 5 and 6 in ED-73C with §2.4.2.7, which has steps 1 through 4, but is missing the equivalent to steps 5 and 6 from ED-73C.	H/W Vendors	
6-10	Review and edit Step 5 of §2.4.2.12.1 (Fixed Data) and in §2.4.2.12.2 (Variable data) for Invalid Addresses. Note that perhaps the test for variable data is not appropriate.	Bob Saffell	
6-11	Review the test procedure in §5.4.12.2.2, of ED-73C and verify that it should remain in that section or be moved to another section.	WG-49	
6-12	In §5.4.12.3.2 in ED-73C, in step #2, the difference includes the exclusion of UF=24. Review why this is different from §2.4.2.12.3, Step 2 in DO-181D.	WG-49	
6-13	Review step sections “d” and “e” in the draft of ED-73C, §5.5.8.34 to determine if they are valid.	WG-49	
6-14	With respect to Procedure #9 in §2.5.4.8 of DO-181D and §5.5.8.8 of ED-73C, WG-49 will review why the text was written as it is presented.	WG-49	
6-15	With regard to the Validation of On-The-Ground Status, both DO-181D and ED-73C text needs to be checked for consistency with the changes to the Air/Ground Determination and Validation of On-Ground Determination that were accepted in the ADS-B MASPS, 1090ES and UAT MOPS, and UAT and 1090ES SARPs. Additionally, there is a difference in the way ED-73C and DO-181D handle the On-Ground status, with respect to relating to “1090ES only” or to “everything.” This will require further discussion at our next Joint Plenary Session. Gary Furr will make this review and provide a Working Paper summarizing the required changes, if any.	Gary Furr	

23. The **Working Papers** for all SC-209 Meetings, as well as the Meeting Agendas, Meeting Minutes, Meeting Schedules and proposed modifications to the ATCRBS and Mode-S MOPS will be posted on the web site maintained by Gary Furr at the FAA William J Hughes Technical Center, located at:

<http://adsb.tc.faa.gov/SC209.htm>

As reported in the Meeting Summary of Eurocae WG-49, Meeting #6, members of SC-209 may access the WG-49 workspace through the Eurocae web site located at:

<http://www.eurocae.org/> Login: WG49 and password: MODE-S

Also, the workspace of Eurocae WG-51 can be accessed by SC-209 members through the same Eurocae web site with: Login: WG51 and password: ADSB