

**Minutes of Meeting #20, Teleconference #2, of RTCA SC-186 Working Group 3
For Maintenance of the ADS-B 1090 MHz MOPS**
<http://adsb.tc.faa.gov/WG3.htm>

The second teleconference related to Meeting #20 was called to order by Co-Chair Thomas Pagano at 11:00am EST, 27 February 2006, as Teleconference #2. Mr. Pagano welcomed all attendees and asked that each attendee introduce themselves and their organization. The attendees for all or part of the meeting included:

Rob Duffer, FAA, AIR-130	Ron Jones, FAA ASD-140	Stacey Rowland, L-3 / ACSS
Gary Furr, L-3/Titan, FAATC-ACB-130	Al Marshall, Sensis Corp	Bob Saffell, Rockwell Collins
David Glessner, Rockwell Collins	James Maynard, Garmin AT	Ronald Staab, SAIC
Bill Harman, MIT Lincoln Lab	Vince Orlando, MIT Lincoln Labs	Don Walker, Honeywell
Carl Jezierski, FAA TC – ACB-120	Tom Pagano, FAA TC – ACB-130	

1. Tom Pagano indicated that this Teleconference #2 has been called to review and discuss the issue of CPR boundaries that were discussed during Teleconference #1 on 13 February, but were not resolved at that time. Ron Stabb inquired as to whether or not we would be discussing the issue of Non-Transponder-Devices being installed in aircraft which already have Mode S transponders installed? Tom indicated that the primary topic of discussion for this teleconference would be the CPR issue, but if we wanted to discuss the NTD issue after the CPR issue was resolved, it would be up to Rob Duffer to agree, since as described in paragraph #8 of the Minutes of Teleconference #1, Rob Duffer had agreed to convene a separate teleconference of interested parties to discuss this issue. With that resolved, we moved on to the topic of CPR.
2. Gary Furr introduced Working Paper 1090-WP20-09 as an agreement between Bill Harman, Stacey Rowlan and Bob Saffell to revise the Notes and requirements that had been proposed in Working Paper 1090-WP20-04 during the previous Teleconference #1. Bill Harman then briefly explained the reasoning behind the Note that is proposed in WP20-09, and the reason why he feels that it is sufficient to replace the other Notes and requirements proposed in WP20-04. The Note as proposed in WP20-09 was only intended for Appendix A, section §A.1.7.5 for the Locally Unambiguous CPR Decode for Airborne. Gary Furr then asked the question as to whether or not it was appropriate to copy this same Note into section §A.1.7.6 for the Locally Unambiguous Surface Decode. Bill Harman agreed that it was appropriate.

Vince Orlando and Bob Saffell then pointed out that it was also appropriate for the same Note to be placed into the two sections (§A.1.7.7 and §A.1.7.8) for the Globally Unambiguous CPR decode. With a discussion that followed, it was suggested that the first sentence of the Note that was proposed in WP-20-09 be separated into a requirements sentence with a “**shall**” in it in the place of the word “should.” This suggestion was **agreed to by the Working Group**.

3. Next, Bob Saffell discussed the fact that he felt that either all, or at least part of the addition to Note #5 in section §2.6.2 of Working Paper WP20-04 should be retained as guidance materials in §A.1.7.2 of Appendix A since much, if not all of the guidance materials on CPR had been removed from the MOPS even before DO-260 was published. After some discussion **the Working Group agreed** to leave the first sentence of the addition to Note #5 in place in the proposed Change 1 to DO-260A.
4. Gary Furr agreed to update Working Paper 1090-WP20-09 with the agreed upon suggestions from this Teleconference and to re-issue the revised Working Paper to WG-3. He further agreed to incorporate the agreed upon revisions into the proposed Change 1 to DO-260A prior to the distribution to RTCA for Final Review and Comment.

5. Bob Saffell went on to step through Working Paper 1090-WP20-08 as the set of test procedures that he had proposed for the CPR boundary tests. Other manufacturers asked if there had been any independent evaluation of the numbers that Bob presents in the new tables in the test procedures. Since no manufacturer was able to volunteer to provide this independent check, Bob Saffell proposed that since he would be involved with the STP MOPS meeting at RTCA on 7-9 March, he would bring with him all of the simulations and be ready to step through them with anyone else attending the meeting. This approach was **agreed to by the Working Group**, and there was also an indication that any further validations of the numbers could be accomplished during the time between now and the SC-186 Plenary on 20 April.
6. With the agreements on CPR finalized, the Working Group then began a discussion of the Non-Transponder-Device issue. Don Walker pointed out that the issue for Honeywell boiled down to being required by the TSO to place a Note into their Installation Manual indicating that “For non-transponder-based 1090 MHz ADS-B equipment, manufacturers must include a limitation that the equipment cannot be co-installed in aircraft with a Mode-S transponder (see RTCA/DO-260A Section 3.0).” It was suggested that there could be an alternative statement that would revise such a Note indicating that “other than where permitted by local authorities” such installations were not permitted. Don Walker agreed to take an Action Item to write a comment against the draft of TSO C166A and forward it to Rob Duffer to suggest such a change in the TSO wording.
7. Gary reminded the meeting that he would revise Working Paper 1090-WP20-09 and forward it to the Working Group by COB, 27 February. Further, he would incorporate all agreed upon revisions into the proposed Change 1 to DO-260A prior to forwarding it to RTCA for distribution to SC-186 members for Final Review and Comment.
8. The next WG-3 meeting is scheduled to start at 9:00am EDT on Wednesday, 19 April 2006 at the facilities of Mitre in McLean Virginia. The RTCA SC-186 Plenary to approve the Change 1 documents to both DO-260 and DO-260A is scheduled to begin at 9:00am EDT on Thursday, 20 April 2006, also at Mitre in McLean VA.
9. The **Working Papers** for all WG-3 Meetings, as well as the Meeting Agendas, Meeting Minutes, Meeting Schedules and proposed modifications to both DO-260 and DO-260A will be posted on the ADS-B 1090 MHz web site maintained at the FAA William J Hughes Technical Center, located at: <http://adsb.tc.faa.gov/WG3.htm>