



**WORKING GROUP 49 (WG-49) “Mode S Enhanced Surveillance”**

**Agenda&Report – Preparation Meeting 9<sup>th</sup>-11<sup>th</sup> July 2007**

1. **Approval of the agenda** DAY 1
2. **Issues resulting from the review SC209/WG49 Joint meeting**  
5 remaining items have been handled.  
Talking points doc from SC209 has not been yet considered.
3. **Approach of ELS and EHS tests**  
It has been decided to include tests in chapters 5.6 (Test procedures for ELS) and 5.7 (Test procedures for EHS)
4. **Environmental test procedures**  
Pierre introduced his WP. It has been decided to add in group 1 Mode S Replies (3.6) and to suppress “mutual suppression” from the groups.  
RTCA environmental tests are in a dedicated chapter (2.3) which is an alleviation of chapter (2.4)  
Pierre proposed to examine the differences between 2.3 and 2.4 and see what can be done in ED73.
5. **Hijack Mode**  
Pierre reviewed Hijack Mode working paper regarding Hijack deletion from the core document => It has been agreed so that Hijack could be suppressed from the next Draft ED 73C version.  
Antoine presented the appendix. Control and Indication functions to be the same than ED73B.
6. **Review of the appendices organization**  
MSP and Broadcast instead of MSSS.  
See the Harmonization Item 1 :  
Antoine to propose a new appendix C (MSP and Broadcast). MSP includes General section and Dataflash section.  
Broadcast will be extracted from doc 9871.
7. **Environmental Tests**  
Pierre presented a working paper regarding reducing environmental tests.  
This WP has been discussed, completed and agreed by the group. All the discussions were done taking into account DO181 environmental test procedures (chapter 2.3). We consider that our position is closed to RTCA.  
From the discussions, some items should be considered by RTCA :
  - ⇒ Mode S Replies to be added in the DO181 environmental test list DAY 2
  - ⇒ Use Maximum cruising true airspeed rather than maximum airspeed
  - ⇒ Variable data : clarify text in 2.3.2.11.2/step 3 (M bit)Side Lobe Suppression (SLS): Reply Ratio should be clarified in both MOPS during the Joint Meeting. (1%, 10 % and 90%, 99%)  
Peak Power Output => To discuss the test of the power also in Mode S reply rate
8. **Review ELS specifications** DAY 3  
Eric Potier presented the ELS specifications to be included in chapter 3.  
Doc was reviewed and agreed. As a general comment the purpose is to have a dedicate numbering for each “shall” requirement to ease test traceability.
9. **Review of ELS and EHS specifications**
10. **Differences taking into account talking points**  
Antoine Presented a paper to analyze the items that WG49 would like SC209 to consider regarding the items discussed in SC209 working papers (that is :  
SC209-WP02-05R2 (changes in §2.2, §2.3 & §2.4)  
SC209-WP04-09 (revisions to several Figures)

SC209-WP04-13 (specific changes to Figure 2-19)  
SC209-WP04-14R1 (update to WP03-07 for changes to §2.4)  
SC209-WP04-15R1 (update to WP03-08 for changes to §2.5)  
SC209-WP05-07 (changes to §2.5.4.5 and §2.5.4.10)  
ModeS-WP01-05 (proposed changes to Procedure #18, §2.5.4.18 Comm-B)  
ModeS-WP01-06 (proposed changes to Comm-B requirements, §2.2.19.2.3.3 & Fig 2-19)  
ModeS-WP01-08R1 (changes to §2.2.14.4.35, RR Reply Request)

**This paper has not been completely reviewed (lack of time)**

According to Antoine, most of the modifications had already been taken into account when WG49 reviewed the differences in may. WG49 considers it would be valuable to review during the joint meeting the modifications WG49 would like SC209 to consider.

**11. Agenda for the joint meeting**

Review of the input which will be proposed to SC209 in order to determine the joint meeting agenda

**12. Next Meeting WG49:**

**12.1. September : from 18<sup>th</sup> to 20<sup>th</sup> Paris - DGAC**

- ⇒ Status following Joint meeting
- ⇒ Actions for SC209 October meeting
- ⇒ ELS / EHS

**12.2. November: 6<sup>th</sup> to 8<sup>th</sup> WG49 meeting / Cologne or Brussel - Eurocontrol**

- ⇒ Examine RTCA proposal
- ⇒ SARPS compliance

**12.3 January after the 15<sup>th</sup> to 17<sup>th</sup>: Last WG49 meeting / Paris - Eurocae**

- ⇒ Final Review of proposed issue ED 73C