

**WRC-07 ADVISORY COMMITTEE
INFORMAL WORKING GROUP-1
(IWG-1)
MEETING MINUTES
November 28, 2006**

**Lockheed Martin Corporation
1550 Crystal Drive, Suite 300
Arlington, VA 22202**

1. Introductions – Jennifer Warren, Chair of IWG-1, welcomed the participants at approximately 11AM EST. The participants included Alex Roytblat, Dante Ibarra, Allen Yang, and Sankar Persaud, FCC; Rob Haines, NTIA, Lily Assefa, AFFMA; Dave McGinnis, NOAA; Dave Pierce; Audrey Allison and Joe Cramer, Boeing; Ken Keane of Duane Morris for AFTRCC; Tom Sullivan, Sullivan Telecommunications Consultants; Tom Tycz, Goldberg, Godles, Wiener & Wright; David Weinreich, Globalstar; Bill Rummmler, Rummmler Telecom; Majid Khalilzadeh, Intelsat; Ed Jacobs, ASRC; Kim Baum, Motorola; Angela Parsons, FiberTower; and Greg Haledjian, IDT Spectrum and David Wye, Lockheed Martin.
2. Approval of Agenda – Agenda was approved with no comments.
3. Minutes of September 28, 2006 meeting. The minutes were approved with the addition of David Weinreich as a participant.
4. IWG-1 Discussion:
 - a. Proposed new Agenda Item addressing UAV spectrum for WRC-11

The meeting agenda noted two proposals regarding the addition of an item addressing spectrum requirements and possible allocations to support UAV command and control on the tentative agenda for WRC-11. As there was no one to formally introduce the RCS proposal, it was not considered further. Ken Keane introduced the AFTRCC proposal, which he noted was a mirror of the RCS proposal. Several concerns were expressed with the proposal:

- Terminology/scope. The FCC noted that “UAV” is not a defined ITU term, questioned why “UAVs” had to be specifically called out, and was concerned about identifying spectrum for undefined applications. It was noted that the proposal was actually for an allocation that could support UAVs and that while the intent of the agenda item would be to examine spectrum requirements for UAVs, such spectrum could be used by manned applications consistent with the allocations.
- Impact on existing services. Several members were concerned about the impact of any possible new allocation on the existing services and proposed to add language to state that UAV use should not [unduly] constrain such services. Specific language was not agreed in the Resolves, tho the Chair noted that the proposal contained language regarding the need to protect existing services.
- Applicability and relationship to No. 4.10 of the Radio Regulations. There was much discussion about the applicability of No. 4.10 of the Radio Regs in the context of the allocations in which UAVs would operate, and how No. 4.10 might impact UAV use vis-à-vis other allocated services. The group agreed that the document should clarify this issue.

- Agenda Item 1.6. A concern was raised that the proposal is similar to existing agenda item 1.6 for WRC-07. It was noted, however, that AI 1.6 is far broader than just UAVs and that the current studies being conducted on UAV (by RTCA, for example) will not be concluded in time for consideration at WRC-07. It was also noted that this proposal deals with UAVs in the National Air Space, which is different than what will be considered at WRC-07. The Chair noted that this seems like a narrow extension of some of the issues being addressed in AI 1.6. In addition, it was noted that AI 1.6 is limited to certain frequency bands, and that the current proposal does not specify any particular band limitations. It was suggested that the proposal indicate the potential frequency range, including up to 30 GHz.

It was agreed that the authors would consult with the interested industry, and try to take the above concerns into account in a revision to the current proposal. The Chair noted that the outcome of the redrafting effort would also provide a basis for a possible IWG-1 view on the comparable RCS proposal. The authors agreed to provide a status report to the Chair by COB Friday, Dec 1. Based on this report, the Chair will schedule a future meeting of IWG-1 – whether by teleconference or in person – if there is no consensus via electronic correspondence. .

b. *AI 1.2 EESS/SRS Passive*

36-37 GHz. The Chair reported on the status of the IWG-1 view on this RCS proposal. In particular, the Chair noted that after the last IWG-1 meeting, at which a view on the RCS proposal has been agreed, an IWG-1 member provided a substantive modification to that view. Although that modification was subsequently distributed to the IWG-1 electronically, it was determined, based in part on advice from the Chair/Vice-Chair of the FCC WAC, that insufficient time for consideration of this substantive modification was provided prior to the WAC deadline – therefore, it should only be reported out at the Dec WAC. Consequently, given the lack of any opposition to the proposed modification to the original IWG-1 view, distributed early last month, the Chair will report out the revised IWG-1 view at the December 13 WAC.

5. Other Documents

For the participants' information, the Chair noted that the FCC had released a Public Notice addressing Agenda Item 1.20, with a comment date of December 6, 2006. Allen Yang, FCC, urged entities to consider submitting individual response to the FCC on the questions posed in the PN.

The Chair also noted that the Director of the ITU-R had released a preliminary version of his Report on the application of the Radio Regulations that is to be submitted to WRC-07.

6. Future Meetings

- a. Next WAC Meeting (December 13, 2006, 11 am). It was noted that this was the last scheduled WAC, but Alex Roytblat stated that further WACs could be held if needed.
- b. Next IWG-1 Meeting (TBD, noting that the latest this meeting could be held is December 11, 2006.)

7. Other Business. There was none.

8. Adjourn – Jennifer Warren closed the meeting at approximately 11:40AM EST.