

**WRC-11 ADVISORY COMMITTEE**  
**Meeting Minutes**

Meeting: IWG-3, Eighth Meeting  
Date/Time: Wednesday, 28 October 2009, 09:30AM  
Location: FCC, 445 12th Street, S.W., Washington, D.C. 20554  
Conference Bridge: 1-866-713-0128, Code #: 8116784  
Committee Members Present:

Jack Wengryniuk, DIRECTV (IWG-3 Chair)  
Donna Bethea Murphy, Iridium (IWG-3 Vice-Chair)  
Don Jansky, JBT  
Alex Roytblatt, FCC  
Michael Mullinix, FCC  
Joseph Hill, FCC  
Dante Ibarra, FCC  
Tom Tycz, Goldberg, Godles, Wiener & Wright (for Skyterra)  
Suzanne Hutchings Malloy, DBSD North America  
Kim Baum, SES World Skies  
Sankar Persaud, FCC  
Dave Weinreich, Globalstar  
Allen Yang, FCC

Committee Members Present (Phone):

Steve Doiron, HNS  
John Gilsean, Terrastar  
Katherine Green, ITT  
Chris Hofer, DISA  
Scott Kotler, NTIA  
Damon Ladson, Wiltshire Grannis  
Bill Rummler, Consultant for FWCC  
Wayne White, NASA  
Larry Reed, ASRC/NASA  
Amy Sanders, Alcatel-Lucent  
Liching Sung, NTIA  
Andy Feltman, ITT/DISA  
Paul Najarian, DoS  
Tom Walsh, Consultant  
Michael Lynch, M J Lynch & Associates  
Chris Murphy, Inmarsat  
Kathryn martin, Access Partnership

Meeting Summary:

1. Introductions

Mr Wengryniuk opened the meeting, noting that this was the eight meeting of IWG-3.

- a. Mr. Roytblat requested that all participants indicate whether they are a federally registered lobbyist during the introductions since this was new FACA requirement.
- b. Introductions were made and no one was introduced as a federally registered lobbyist.

2. The Agenda was approved as proposed.

3. Approval of Seventh IWG 3 meeting minutes. The minutes for the seventh meeting of IWG-3 were approved with the addition of Amy Sanders to the list of participants.

Just before moving to the summary of other meetings of interest and status of WRC proposals, Mr Tycz requested that NTIA provide a status report along with the FCC of the approval of the US proposals and positions for each of the WRC agenda items.

4. Summary of the last round of ITU-R meetings

WP 4C

AI 1.25: the number of bands being considered for MSS was reduced at WP4C and is now becoming much more focused.

AI 1.18: Some progress was made on this agenda item at WP4C.

WP 4A

AI 1.13. There was considerable discussion of this agenda item at WP4A and it appears there is now concern about the protection of fixed operations in Regions 1 and 3 as well as Region2 from BSS in Regions 1 and 3. On a positive note, it was recognized that regardless of the “methods to satisfy the agenda” that are considered by the WRC, the issue of whether or not R2 terrestrial needs to be protected must be addressed.

5. Summary of other meetings of interest

Mr Roytblat introduced his report for the CPG meeting and it was made available through email. The report of the recently conducted ITU/ATU meeting was noted and made available through email. It was noted that the ATU also had a separate one day meeting after this joint ITU/ATU meeting.

6. Status of preparation of proposals

***AI 1.7 Availability of AMS(R)S spectrum***

There is a previously approved WAC proposal on this AI. Mr. Roytblat indicated that both the preliminary view and the draft WAC proposal has not been reconciled with NTIA. FCC is still supportive of the WAC proposal. Mr. Kotler (NTIA) indicated that a NOC proposal for AI 1.7 was premature and NTIA and USG agencies are awaiting further international discussion. It was noted that WP4C is continuing to examine the issues and that a European study of aviation spectrum requirements

indicate that only up to 2x4 MHz would be needed for AMS(R)S for the year 2025. No additional allocations would be required under this AI. It was agreed that IWG-3 did not need to revisit the existing draft US proposal on this issue at this time.

***AI 1.11 SRS in the band 22.55-23.15 GHz***

The FCC (Mr. Roytblat) indicated that discussions are still ongoing with the USG agencies. The issue is still open in WP 7B and WP 4A. There is a disagreement about whether the ISS links address the Iridium satellite system ISS links and the SRS ISS links with respect to NASA satellites. Mr. Jansky noted that the ITU recommendation applies only to SRS satellite links. Mr. Whyte indicated the ITU Recommendation included all ISS satellite systems operating in the band. It was clear that these discussions will need to progress further before a draft US WRC proposal could be formulated.

***AI 1.13 BSS in Regions 1 and 3 in 21.4-22 GHz***

There is a previously approved WAC proposal on this AI and this proposal is being submitted to CITELE. It was noted that in ITU-R WP 4A there is considerable work ongoing regarding the protection of terrestrial services in Region 2. This work is now encompassing the protection of terrestrial services in Region 1 and 3 from BSS in Region 1 and 3. Mr. Jansky explained that there are descriptions of methods in the draft CPM text and he indicated that Russia has indicated that implicit in the planning should be the protection of terrestrial services in Russia.

It was noted at WP 4A that there are some 600+ ITU filings in 21.4-22GHz band. It was also noted that this fact is being used to try to create the perception of inequitable access and that a solution being discussed is to use the queue jumping solution from Appendix 30B. Also there is a concern that the ITU databases should be cleaned and the networks not brought into use should be dropped. It is recognized that the WRC will need to decide on the protection of Region 2 terrestrial services, regardless of what it decides on R1&3 BSS. There is also concern that this issue could spill over into other non-planned bands and newly allocated bands. Also applying this queue jumping approach to Articles 9 and 11 procedures could be an issue.

In the end it was agreed that IWG-3 does not need to revisit the existing draft AS WRC proposal at this time.

***AI 1.18 Global primary RDSS (space-to- Earth) in the 2483.5-2500MHz band***

Mr. Weinreich indicated that some progress was made at WP 4C on this issue and that there is considerable information in the annex to the WP 4C Chairman's Report. WP 4C was conveying information regarding the protection of existing services. It was noted that the CPG is taking the position that RR 4.10 does not apply. Mr. Weinreich offered to develop a proposal for the next IWG-3 meeting. NTIA does not have position on this issue and is awaiting the draft proposal.

***AI 1.24 Extending 7750-7850MHz METSAT allocation to 7750-7900MHz***

Mr. Roytblat indicated that the US proposal on this agenda item is going to CITELE. The US proposal aligns with the CPG position. Noting again that the bands in question under this AI are not commercially available, IWG-3 agreed to maintain its position of disinterest on this IA.

***AI 1.25 Additional MSS allocations 4-16 GHz.***

Mr. Murphy indicated that Inmarsat continues to work in WP 4C on this issue and that WP 4C has focused on nine specific bands. The US submitted an information document to CITELE on AI 1.25. Ms. Baum also indicated that the information paper summarizes the status of the WP 4C studies. Mr. Murphy indicated that there are serious off line discussions about certain specific bands in this list. Mr Murphy also indicated that Inmarsat submitted a separate paper to CITELE, as an observer.

Mr. Roytblat noted the CPG position that in the bands 5030-5150 MHz, the ARNS is to be protected. There are three positions from other countries proposing to delete the 5030-5150MHz band. Mr. Murphy indicated that Inmarsat believes it is too early for a proposal for this band. Mr Weinreich indicated that Globalstar's view is that 5150-5250 MHz is not suitable for an MSS allocation. Mr Murphy indicated that Inmarsat studies have focused on the MSS downlinks in this band and it feels the international process should play out before eliminating this band from further consideration. In the end it was agreed to hold off on the formulation of a draft US WRC proposal on this AI for now.

***AI 8.2 Future Agenda items.***

Mr Wengryniuk encouraged everyone to think about future agenda items.

7. Other items

No other items were presented.

8. Next meeting time and place (noting the next full WAC is January 20.)

The next IWG-3 meeting will be December 17, 2009 at 1:30PM at a place to be determined. The chairman will email the time and place when they become available.. It was noted that WP4A will meet November 17 at 1PM and WP 4C will meet November 17 in the morning.

9. Adjournment

There being no other business, the meeting adjourned at 10:25AM.

Documents Distributed:

IWG3/025 – Draft Minutes from 7th meeting of IWG-3  
IWG3/026 – Draft Agenda for the 8th meeting of IWG-3

Public Participation Statement: This meeting was open to the public.

Minutes By: Tom Tycz