

Meeting Minutes

Meeting: WAC-15, Informal Working Group-3: Space Services (IWG-3)

Date/Time: 20 September 2012, 12:30-1:30pm (EDT)

Location: Teleconference only

Participants: (see attachment)

FCC Employees Present: (see attachment)

Meeting Summary:

1. **Introductions:** The Chair welcomed all participants to the third meeting of WAC-15 IWG-3. Chairing the meeting was IWG-3 Vice-Chair Kimberly Baum. All participants introduced themselves and were requested to send an email confirming participation to the Chair.
2. **Approval of the Agenda:** IWG-3 Chairman Jack Wengryniuk had posted on 9/11/12 that the primary goal of this meeting was to finalize preparation and approve as many of the IWG-3 preliminary views as possible for consideration at the October 1, 2012 FCC WAC-15 Advisory committee meeting. It was noted that it is in the best interest of the USA to get as many PVs as possible agreed by the WAC so that they can be sent to the CITELE meeting later in October. Meeting chair Kimberly Baum discussed that goal and offered the agenda to the meeting, which had been previously distributed via email. The agenda was adopted.
3. **Minutes from second meeting of IWG-3:** Author Jack Wengryniuk. The chair asked for comments to the meeting minutes (doc IWG-3/013 Rev 1) which were previously distributed to the IWG-3 subscribe list, and requested approval. The minutes were approved.
4. **Discussion of posted draft PVs already distributed to IWG-3:**

Agenda Item 1.5: UAS (Res. 53) see doc. lwg3 009

- This document was noted as previously approved by the IWG-3 in the August 30, 2012 meeting.

Agenda Item 1.6: additional FCC primary allocations Res. 151 &152:

- Zachary Rosenbaum had prepared and distributed, on behalf of SES, revisions to draft PVs for both of the sub-Agenda items 1.6.1 and 1.6.2 on 9/19.
- 1.6.1 – Region1, 250MHz (E-s and s-E) between 10-17GHz (Res 151) (doc iwg3 010r1)
Changes to the draft PV were presented by Zach and Ms. Kelly O’Keefe, principally to highlight the additional text to address comments made in the last meeting in support for sharing studies and compatibility studies with existing services. The document was approved by IWG-3 and will be considered at the WAC meeting on October 1.
- 1.6.2 – Region 2, 250MHz (E-s), Region 3, 300MHz (E-s) between 13-17GHz (Res 152) (doc iwg3 011r1)
Introduction of the changes and edits to address the issue of specifically mentioning the protection of other services from any new FSS allocations were reviewed and discussed. Common additional highlights in support of sharing studies had also been included. The document was approved without change by IWG-3 and will be considered at the WAC meeting on October 1.

Agenda Item 1.7: NGSO MSS feeder links 5091-5150MHz (Res 114) (doc iwg3 004)

David Weinreich had prepared and distributed, on behalf of Globalstar, a draft PV for Agenda item 1.7 on 8/15. This document had been tabled during the last meeting to allow new participants time to review. Discussions noted that there wasn’t any MLS expansion planned for this band, and MSS seeks to continue to operate using RR No. 5.444. IWG-3 moved to approve. Document iwg3 004 was approved by IWG-3 and will be considered at the WAC meeting on October 1.

Agenda Item 1.8: ESVs (Res 909) (doc iwg3 006r1)

Angela Maimo, Intelsat, prepared edits and distributed to IWG-3 on 9/17/12. After introducing the revised document, additional comments were offered toward the PV, mentioning PV inputs to clarify operation while continuing to protect co-frequency services, whether to reference the US only or international table of allocations, and other editorial changes. After discussion, IWG-3 moved to approve. The document was approved by IWG-3 and will be considered at the WAC meeting on October 1.

Agenda Item 1.10: MSS allocations 22-26 GHz (Res 234) (doc iwg3 008)

- Don Jansky reviewed the document edited on 8/22/12 and tabled in the 2nd IWG-3 meeting to allow IWG-3 participants additional time to review. There have not been any additional comments since. The document was approved by IWG-3 and will be considered at the WAC meeting on October 1.

5. Discussion of status of other PVs sent to IWG-3 by NTIA:

Agenda Item 1.11: primary allocations for EESS (E-s) 7-8 GHz (see doc iw3 005)

The Chair asked for comments and recommendations to AI 1.11, and noted that comments suggested that we can support studies.. Bill Rummier noted that the band was not used in the US, but was used in Canada. It was agreed that the IWG-3 could report to the WAC that IWG-3 has no concerns with the RCS 8/15/12 approved PV on AI 1.11.

Agenda Item 1.12: extension of 9300-9900 MHz EESS allocation by 600 MHz (Res 651)

Brennan Price, ARRL and Amy Sanders, Alcatel Lucent discussed the AI 1.12 preliminary view previously provided by NTIA(doc iw3 005), and recommended support of EESS allocation with comments regarding FSS in 10.5 – 10.7 GHz band. The Chair asked Brennan to put together his suggested edits and asked Amy to work with Brennan. Tom Tycz noted that Alex Roytblat (FCC) was participating in the teleconference and that the submission should match the WAC timeline. Alex commented that the WAC needed the documents by Monday in order to circulate to the WAC. The Chair requested that IWG-3 move this document forward by correspondence in order to get to the WAC meeting in time. Brennan and Amy agreed to circulate edits of the doc by COB same day Thursday Sept 20, and any further IWG-3 comments were required by COB Friday in order to make submission by COB Monday September 24 to the WAC for it's Oct 1 meeting.

Agenda Item 1.9: in accordance with (Res 758)(see doc iw3 015)

1.9.1 FSS in 7150-7250 MHz (s-E) and 8400-8500 MHz (E-s) The Chair asked for comments and suggestion on the RCS approved PV. The RCS doc IWG-3 015 was discussed and it was noted that it included support of studies in the Resolution. Kelly O'keefe suggested the US should support allocations. Other comments included whether we needed a consistent approach on 1.9.1 and 1.9.2, and that both AIs were put forth by the French military. The Chair requested that Kelly O'keefe recirculate a draft PV for AI 1.9.1 with edits as proposed to IWG-3, request comments, and use the same approval by correspondence procedure as agreed in AI 1.12 above. Kelly and IWG-3 agreed to this document approval procedure for AI 1.9.1.

- 1.9.2 - maritime mobile satellite service 7375-7750 MHz and 8025-8400MHz

The Chair asked for comments and suggestions on the RCS approved PV. The Chair noted that IWG-3 may want to keep the same language for both 1.9.1 and 1.9.2 per Steve Baruch comments in previous 1.9.1

discussion. Steve commented that for 1.9.2 he would be happier with an IWG-3 note of no concern to the WAC. The Chair proposed that IWG-3 report to the WAC that IWG-3 has no concerns with the RCS approved PV for AI 1.9.2 and it was so agreed.

A request was made to delay the deadline for comments on these re-circulated IWG-3 documents until Friday midnight due to travel constraints. The Chair proposed midnight Friday as the requirement for correspondence comments on both documents AI 1.9.1 and 1.9.2. IWG-3 approved the proposal.

6. Discussion of RCS RVs (italicized agenda items not under IWG3's purview)

Doc iwg3 005 (Agenda items 1.10, 1.11, 1.12, 1.13)

Doc iwg3 015 (Agenda items 1.3, 1.5, 1.6.1, 1.6.2, 1.9.1, 1.9.2, 1.14, 1.17, 1.18)

7. Future Meetings

Next meeting will be scheduled for similar timeframe as the other IWG determine their next meetings – expected next meeting to target beginning of December.

8. Other Business

A deadline of midnight September 21 was set to complete IWG-3's circulation of edits and comments to the remaining PVs and complete approvals by corespondance for submission to WAC by Monday September 24 CoB. The meeting was adjourned at 1:30pm.

Documents Distributed: The following documents were distributed prior to and discussed during the meeting.

1. IWG3/014: IWG-2 3rd meeting Agenda
2. IWG3/013r1: Minutes from second meeting of IWG-3
3. IWG3/009: 8/30/12 version of PV for AI 1.5
4. IWG3/010r1: 9/19/12 version of PV for AI 1.6.1
5. IWG3/011r1: 9/19/12 version of PV for AI 1.6.2
6. IWG3/004: 8/15/12 version of PV for AI 1.7
7. IWG3/006r1: 9/19/12 version of PV for AI 1.8
8. IWG3/008: 8/22/12 version of PV for AI 1.10
9. IWG3/005: 8/15/12 version of RCS PVs for AIs 1.10, 1.11, 1.12, 1.13
10. IWG3/015: 9/18/12 version of RCS PVs for AIs 1.3, 1.5, 1.6.1, 1.6.2, 1.9.1, 1.9.2, 1.14, 1.17, 1.18

11. IWG3/000: 9/19/12 version of IWG3 Document List.

Public Participation Statement: This meeting was open to the public as announced by Public notice DA 12-1480.

Author: Joseph R. Dockemeyer Jr.

IWG-3 Participants List (9/20/12)

<u>First Name</u>	<u>Last name</u>	<u>Company</u>
Kimberly	Baum	SES
Steve	Baruch	Hughes
Bob	Dockemeyer	Delphi
Don	Jansky	SES
Damon	Ladson	Iridium
Roger	Leclair	Consultant
Scott	Kotler	NTIA
Brandon	Hinton	Xcelis
Bill	Tranavitch	ITT
Ed	Jacobs	ASRC
Tom	Tycz	Iridium
Amy	Sanders	Alcatel-Lucent
David	Weinreich	Globalstar
Bill	Rummler	RWCC
An Thuh	Nguyen	ITT
Larry	Reed	NASA
Kelly	O'Keefe	AP
Steve	Ward	Navy
Liching	Sung	NTIA
Brandon	Mitchell	NTIA
Zach	Rosenbaum	SES
Wayne	Whyte	NASA
Chuck	Wende	NASA
Sankar	Persuad	FCC
Kim	Kolb	Boeing
Michael	Mullinix	FCC
Joe	Hill	FCC
Jack	Wengryniuk	DIRECTV
Tom	Walsh	Aerospace
Brennan	Price	AARL
John	Greenhill	DoE

Majid	Khalizadeh	Intelsat
Jose	Albuquerque	Intelsat
Jonathan	Williams	NTIA
Alex	Roytblat	FCC
Jennifer	Warren	Lockheed
Andy	Feltman	Xcelis