

### Fifteenth Meeting Draft Minutes

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

**Date/Time:** 18 August 2014, 10:00-11:00 am (EST)

**Location:** Teleconference only

**Participants:** (see attachment)

**FCC Employees Present:** (see attachment)

#### Meeting Summary:

1. **Introductions:** The Chair welcomed all participants to the fifteenth meeting of WAC-15 IWG-3. Chairing the meeting was IWG-3 Vice-Chair, Kim Baum. All participants introduced themselves and provided their affiliation.
2. **Approval of the Agenda:** A draft agenda had been e-mailed to the IWG-3 subscriber list and the Chair sought its approval. It was approved with several editorial amendments.
3. **Appointment of minutes taker:** The Chair asked for a volunteer take minutes for the meeting. Receiving none she asked Bill Rummmler, the next member alphabetically following Zach Rosenbaum the minutes taker of the previous meeting. He accepted and the meeting approved.
4. **Minutes from the fourteenth meeting of IWG-3:** The minutes prepared by Mr. Rosenbaum, which had been previously circulated, were approved.
5. **Summary of meetings of Interest to IWG-3:** The Chair noted that since the last meeting of IWG-3 there had been no meetings of note.
6. **Discussion of the status of WRC-15 Agenda items attributed to IWG-3:**

**a. Agenda Item 1.5:** UAS (Res. 153) Document: IWG3 036 rev 5

The document had been approved by correspondence as of CoB the previous Friday, August 15. The document was opened solely for editorial comments and two editorial suggestions were made by Larry Reed and Humberto Henriques. These changes were accepted. Mr. Don Jansky agreed to implement them and circulate a final version by the end of the day.

**b. Agenda Item 1.6** Additional FSS Primary allocations

The Chair noted that IWG-3 had previously approved IWG-3/40 providing its view on agenda items 1.6.1 and 1.6.2 (uplink direction only). Document WAC/80 which provided NTIA proposals on both agenda item 1.6.1 and 1.6.2, and covered bands addressed under Document IWG-3/40 and also other bands not addressed previously by IWG-3. After some discussion the meeting agreed that at the WAC meeting the IWG-3 Chair would say that IWG-3 disagrees with the NTIA proposals in WAC/80 and that reconciliation would be needed. IWG-3 continues to support the previous WAC proposal in Document WAC/71 for the 14.8-15.35 GHz band. IWG-3 does not agree with the additional NTIA proposals for the 13.25-13.75 and 15.4-17.1 GHz bands in Document WAC/80.

**c. Agenda Item 1.7:** NGSO MSS feeder links 5091-5150 MHz (Res 114)

Mr. David Weinreich introduced the changes included in revision 4 of document IWG-3/35 to resolve ambiguities in the previous version. He accepted further suggested clarifications and agreed to provide a final version by the end of the day. With that understanding the document was approved.

**d. Agenda Item 1.8:** ESVs (Res 909)

The proposal on this agenda item, IWG-3/37 Rev.3, was approved at the previous meeting of IWG-3. There was no further discussion.

**e. Agenda Item 1.9:** new FSS & maritime MSS in accordance with Res 758

- i. **1.9.1** – There was no discussion on this item.
- ii. **1.9.2** – There was no discussion on this item.

**f. Agenda Item 1.10:** MSS allocations 22-26 GHz (Res 234)

There was no discussion on this item.

**g. Agenda Item 1.11:** Primary allocation for EESS (E-s) 7-8 GHz

There was no discussion on this item.

**h. Agenda item 1.12:** extension of 9300-9900 MHz EESS allocation by 600 MHz (Res 651).

The meeting addressed Document IWG-3/41 (drafted by Mimosa) which provided a redline of the NTIA proposal on this item. It was noted that IWG-3 and the WAC had previously approved a proposal under agenda item 1.12.

There was a spirited discussion of this item with Mr. Brennan Price and Ms. Kathryn Martin being the principal commenters. Mr. Price was opposed to reopening the proposal, and Ms. Martin wished to address the status of the fixed service in 10-10.45 GHz. The Chair encouraged them to work together to resolve their differences. She said that she would report to the WAC that IWG-3 received proposed revisions to the WAC approved proposal in Document WAC/73 regarding the status of the fixed

service in 10-10.45 GHz, and that IWG-3 hasn't reached agreement on this revision to the proposal and continues to consider it within IWG-3.

## **7. Proposed WRC-18 Agenda items**

### **a. IWG-3 046: NGSO V-band**

Mr. Henriques reported that he had had a number of discussions on this issue, but had not yet made substantial progress. It was suggested that including a draft Resolution would help to give form and purpose to the proposal. A number of parties commented on the proposal, including Ms. Sanders (regarding the fixed and mobile services), Ms. Leon (regarding her company's continued opposition) and an observer from NASA, Mr. Whyte, who referenced out-of-band emission limits in a portion of V band that should be taken into account.

## **8. Future Meetings**

It was agreed that the next meeting of IWG-3 would be scheduled for mid-October after the WAC (27 August) and CITELE meetings.

## **9. Other Business**

There was no other business.

ATTACHMENT

Attendees to 15<sup>th</sup> Meeting of WAC-15 IWG-3

Last Name	First Name	Present at 15 <sup>th</sup> meeting?	Company
Albuquerque	Jose	Y	FCC
Allison	Audrey		Boeing
Aloisi	Mike	Y	Viacom
Baruch	Steve	Y	New Wave Spectrum Partners
Baum	Kim	Y	SES
Bjornson	Christopher		Steptoe and Johnson
Briskman	Rob	Y	Sirius XM
Choi	Dave	Y	MITRE
Creeser	Giselle		for Inmarsat
Denny	Robert	Y	NTIA
DeVane	Candice	Y	Intelsat
DiLapi	Christine	Y	Excelis
Dockemeyer	Bob	Y	Delphi
Entz	Kyle	Y	Sprint
Ephsteyn	Alex	Y	Intelsat
Feltman	Andy	Y	Exelis
Frank	Carl	Y	Wiley Rein
Greenhill	John		DoE
Hayden	Tom	Y	TLH Consulting
Henriques	Humberto	Y	Telecom Strategies
Hill	Joe	Y	FCC
Hofer	Chris	Y	ViaSat
Jacobs	Ed	Y	NASA
Jansky	Donald	Y	Jansky-Barmat Telecommunications Inc.
Kercyewski	Bob	Y	NASA
Kolb	Kim		Boeing
Kotler	Scott	Y	Lockheed Martin
Ladson	Damon	Y	Wiltshire Grannis
Lemke	Mike	Y	DoD
Leon	Giadira	Y	Hughes/EchoStar
Martin	Kathryn	Y	Access Partnership for Mimosa
Moakkit	Haz		O3b
Mullinix	Michael		FCC
Nelsen	John	Y	SES
Nyguen	Ahn Thu	Y	DSO Excelis
O'Keefe	Kelly		Access Partnership

Ours	Adam	Y	Intelsat
Persuad	Sankar	Y	FCC
Price	Brennan	Y	ARRL
Reed	Larry	Y	NASA
Rinker	Alan	Y	Boeing
Rosenbaum	Zach	Y	SES
Roytblat	Alex		FCC
Rummler	Bill	Y	Consultant for FWCC
Sanders	Amy	Y	Alcatel Lucent
Walsh	Tom		Aerospace
Weinreich	Dave	Y	Globalstar
Wende	Chuck	Y	ASRC for NASA
Wengryniuk	Jack		DIRECTV
Whyte	Wayne	Y	NASA
Yates	Alan	Y	Intelsat