**Meeting Minutes**

Meeting: IWG-4

Date/Time: March 4, 2019 at 2:00 pm EST

Location: Conference call only

Committee Members & Observers Present: See Participants’ List (attached)

FCC Employees Present: Michael Mullinix (Designated Federal Officer), Dante Ibarra, Larry Olson

Minutes prepared by: Steve Baruch

Meeting Summary:

1. Opening Remarks and Introductions. The meeting was called to order at 2:03 pm ET, and most participants introduced themselves.
2. Approval of the Agenda. The agenda of the meeting (Document IWG-4/058R1 (4 March 2019)) was approved without revision.
3. Appointment of Minutes Taker. Steve Baruch volunteered to prepare the minutes for this meeting, with kudos to Zach Rosenbaum for also volunteering.
4. Approval of Minutes. The draft minutes of IWG-4’s 5 February 2019 meeting, as contained in Document IWG-4/057, were approved without change.
5. Discussion of Draft Proposals.
   1. Z. Rosenbaum (SES) introduced Doc. IWG-4/055R1 on Agenda item 7, Issue F, Facilitating entry of new assignments into the RR Appendix 30B List. Mr. Rosenbaum indicated that the only change was an edit to the modification of note 15 in the draft proposal to reflect an agreement on an effective date that was reflected in the final CPM Report. The meeting agreed to forward the document, following some minor editorial revisions, to the WAC for consideration.
   2. J. Zoller (Omnispace) introduced Doc. IWG-4/051R1. IWG-4 had previously endorsed the NTIA proposal for Agenda item 7, original Issue H, and approved comments in Doc. IWG-4/051 on the NTIA proposal for original Issue I. At the CPM in February, however, original Issues H, I, and L were combined into new Issue H, and the Appendix 4 changes under the single method for this issue capture the views of IWG-4 on original Issues H and I. Doc. IWG-4/051R1 reflects the CPM output. The meeting approved the document for submission to the WAC, with the understanding that the chair of IWG-4, when presenting the document, would note that this document: i) reflects the output of the discussions on Issues H, I, and L as supported by the United States delegation to the CPM; and ii) should be viewed in reconciliation as an agreed replacement for the NTIA proposals on Agenda item 7, original Issues H and I which are overtaken by events.
   3. D. Jansky (Space Belt) introduced Doc. IWG-4/060, under Agenda Item 9.2. The proposal seeks to provide recognition starting at WRC-19 for space-to-space transmissions in the FSS bands at 5.925-6.425 GHz 29.5-30 GHz where the transmissions are within the envelope of coordinated conventional FSS Earth-to-space links. After extensive and constructive discussion, the meeting agreed that this new proposal would be tabled and would not be sent to the March WAC meeting. Instead, the discussions on the proposal (which is related to work ongoing on future agenda items in IWG-3) will be able to continue in delegation meeting discussions for CITEL PCC.II and WRC-19.
   4. S. Baruch (GPSIA) introduced Doc. IWG-4/059 to provide some constructive comments on the NTIA draft proposal for a future agenda item to revise Appendix 10 harmful interference reporting for the EESS (passive) service. Points regarding the ability to report harmful interference to passive services from unwanted emissions in adjacent or other non-co-frequency bands were offered, as was the point that some other services have addressed deficiencies in the scope of Appendix 10 forms through ITU-R reports and/or recommendations – meaning that a future agenda item may not be needed. After discussion, the meeting agreed that IWG-4 was not in a position to endorse the NTIA proposal. It agreed to send Doc. IWG-4/059 to the WAC, and have the chair of IWG-4 report during her presentation that while IWG-4 was providing text improvements to the draft proposal, the group included broader concerns and comments on the proposal in its minutes of the 4 March meeting for potential use in reconciliation discussions between the FCC and NTIA.
6. Updates on Relevant International Meetings There was a brief discussion of relevant points from the just-concluded CPM19-2 meeting.
7. Review of IWG-4 Agenda Items The meeting reviewed the agenda items included in IWG-4’s terms of reference, and noted with approval that almost all of the potential items ripe for consideration at this time are the subject of approved or under-consideration United States proposals to WRC-19.
8. Next Meeting

No futher meetings of IWG-4 for the WAC for WRC-19 are contemplated.

1. Other Issues. The vice-chair of IWG-4, on behalf of the chair, thanked all of the participants in IWG-4 for their hard work and constructive participation during the WRC preparatory cycle. No other issues were raised.

The meeting adjourned at 3:20 pm EDT.

Documents Distributed:

* Agenda for the seventeenth IWG-4 meeting (Document IWG-4/058)
* Draft minutes from sixteenth IWG-4 meeting (Document IWG-4/057)
* Revised Draft Proposal for AI 7, Issue F (Document IWG-4/055R1)
* Revised Draft Comments on NTIA Proposal for AI 7, new Issue H (Document IWG-4/051R1)
* Draft Proposal for AI 9.2 (Document IWG-4/060)
* Draft Comments on NTIA Proposal for AI 10, Appendix 10 matters (Document IWG-4/059)

Public Participation Statement:

This meeting was open to the public.

**IWG-4 Meeting Participants List**

**March 4, 2019**

**Members**

Don Jansky, SpaceBelt

Stephen Baruch, GPS Innovation Alliance

Fernando Carillo, EchoStar Corp.

Julie Zoller, Omnispace

Giselle Creeser, Intelsat

Brandy Sykes, Apple

Robert Weller, NAB

Gerry Shewan, One Web

Audrey Allison, Boeing

Robert Briskman, Sirius/XM

Jayne Stancavage, Intel

George John, Spire Global

Damon Ladson, Iridium

Zach Rosenbaum, SES/O3b

Clifford Gonsalves, Thales

Kyle Entz, Sprint

**Observers**

Jack Wengryniuk, Peraton for DoD

Brandon Mitchell, NTIA

Brian Patten, NTIA

Larry Reed, ASRC for NASA

Kellen Gibson, NTIA

Joanne Wilson, ASRC for NASA

Shelli Rose Haskins, ACES Corp. for NOAA

Colin Alberts, for DoD

Humberto Henriques, for Inmarsat

Pascale Dumit, T-Mobile

Robert Denny, NTIA

Thomas Hayden, TLH Consulting

Lauren Crean, TMG

Scott Billiquist, World Radiocommunication Week

**FCC Representatives**

Michael Mullinix (DFO)

Dante Ibarra

Larry Olson