**Meeting Minutes**

Meeting: IWG-3 (Meeting 15)

Date/Time: Thursday, August 2, 2018 1:00-3:00 p.m. EST

Location: Conference call

Committee Members & Observers Present:

Chair: Jack Wengryniuk, Vice-Chair: Zach Rosenbaum

For additional members and observers present, see attached Appendix A.

FCC Employees Present:

Michael Mullinix, Designated Federal Official (DFO) for WAC-19

Dante Ibarra

Meeting Summary:

1. Opening Remarks, Introductions, Identification of DFO, volunteer to take minutes

Jack Wengryniuk opened the meeting and took roll call. Michael Mullinix, DFO for WAC-19, confirmed his presence on the call. Jayne Stancavage (Intel) graciously agreed to take the minutes of the meeting.

1. Approval of Agenda

The agenda in DocumentIWG-3/048\_r1 was approved.

1. Approval of minutes from fourteenth IWG-3 meeting:

The minutes of the previous meeting as contained in IWG-3/047r1were approved without comment.

1. Other meetings of interest since last meeting of IWG-3

Jack Wengryniuk noted that all the ITU-R Study Groups except Task Group 5/1 have completed their draft CPM text. Michael Mullinix provided an update on the recent PCC II meeting.

Mr. Mullinix noted the activities in the U.S. preparatory cycle concerning Agenda Item 1.6 and the evaluation of interference from GSO satellites into the passive band 50.2 – 50.4 GHz. Mr. Mullinix indicated that the FCC would like the WAC to consider this issue in their discussions, even though it may be outside the scope of the Agenda Item. In addition, he noted FCC leadership would be reaching out to interested GSO operators to notify them of the high-level discussions between FCC, NTIA and State on potential modifications to the existing unwanted emission limits in Res. **750** of GSO operations in the bands 49.7-50.2 GHz (Earth-to-space) and 50.4-50.9 GHz (Earth-to-space) into the EESS passive band.

1. Current status of WRC-19 AIs under IWG-3 and discussion of draft proposals
2. Agenda Item 1.7: Greg Baker (ASRI) introduced document IWG-3\_050, a draft proposal on this AI. There was a discussion on the removal of RR No. **9.21**, the difference between the allocation to Space Operations in Region 1 versus Regions 2 and 3, concerns about potential impact on airport equipment, and whether any studies were done with MSS incumbent systems. It was noted that the draft proposal might benefit from clearer language in the “reasons” section, providing a value for the TBD PFD, and information in the background on the 148 MHz band. The author noted these comments and it was agreed that the draft proposal will be further considered at the next meeting.
3. Agenda Item 1.3: The Chair introduced document IWG-3\_049 which proposes revisions to the AI 1.3 proposal from NTIA. It was noted that the changes are mostly formatting, with some clarifying text added to clearly define the proposed PFD. Mr. Mullinix noted that the draft CPM text on AI 1.3 has an associated WRC Resolution while this proposal does not: he asked if any observers from NTIA, NOAA or NASA could indicate whether RCS is planning to provide a WRC Resolution in a revised proposal. Carlos Flores, observer from NOAA, indicated that they are planning to provide a revised proposal that includes a WRC Resolution. Mr. Mullinix will provide the WRC Resolution from the draft CPM text to IWG-3. There were concerns raised about the lack of protection and future development of IMT as well as a question on why the words “of frequency allocations” were deleted. Given the expectation of a revised NTIA proposal, it was noted that IWG-3 could await that revised proposal for further review.
4. Agenda Item 1.5: Chris Hofer, ViaSat, introduced Doc IWG-3\_051. Several participants noted they needed more time to review the document as it was received just the day before the meeting, but there were concerns raised with the protection of incumbent services and those voicing such concerns indicated their willingness to work offline with the author on these issues. There were also questions about “harmful, unacceptable” as adjectives to the term “interference” as well as some editorial corrections (duplicate titles, page 2, etc). Members were encouraged to provide any feedback to Mr. Hofer as early as possible before the next meeting of IWG-3. The draft proposal will be further considered at the next meeting.
5. Agenda Item 1.6: Alex Epshteyn, Boeing, introduced document IWG-3\_42\_8-2-18. There were concerns raised about how to deal with the aggregate PFD from NGSO, the lack of information on reference links, the need for each MOD or ADD to have proposal numbers, and WRC Resolution **750** limits. The point was also raised by the FCC of a desire to have IWG-3 express its views on the issue of revisions to Resolution **750** to address protection from GSO FSS networks.Mr. Epshteyn will produce a revised version of the draft proposal for the next meeting.

6. Future Meetings

The next meeting of the WAC is October 1, 2018. IWG-3 will meet 2 more times between now and the WAC meeting. Notices will be sent to the reflector. Mr. Mullinix noted that there will also be an additional WAC meeting before the April 2019 CITEL PCC II meeting to address any agenda items that the US does not have proposals on and future agenda items. Members were urged to bring future agenda item proposals to the WAC as soon as possible.

7. Other Business

Mr. Mullinix reminded participants that you must be a member of the WAC to actively participate in IWG meetings: the latest membership lists can be found on the FCC website.

Documents Distributed:

IWG-3/042\_8-2-18 AI 1.6 draft proposal

IWG-3/047r1 Meeting 14 minutes

IWG-3/048 Meeting 15 Agenda

IWG-3/049 AI 1.3 draft proposal

IWG-3/050 A.I 1.7 draft proposal

IWG-3/051 AI 1.5 draft proposal

Public Participation Statement:

Meeting IWG-3/15 (02.08.2018) was open to the public ([DA 18-634](https://docs.fcc.gov/public/attachments/DA-18-634A1.pdf)) and had 17 members, 17 observers, 1 IWG-3 official and 2 FCC employees participating.

Author:

Jayne Stancavage, Intel, prepared these minutes.

**Appendix A: Additional Attendees at August 2, 2018** **meeting of IWG-3**

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| Members | |
| Name | Company |
| Winston Caldwell | 21st Century Fox |
| George John | Spire |
| Chris Hofer | Viasat |
| Stephen Baruch | New Wave Spectrum Partners |
| Brennan Price | Echostar |
| Matt Botwin | SpaceX |
| Scott Kotler | Lockheed |
| Lou Fiore | AICC |
| Jack Wengryniuk | Inmarsat |
| Alex Epshteyn | Boeing |
| Veena Rawat | GSMA |
| Jayne Stancavage | Intel |
| Damon Ladson | Iridium |
| Zachary Rosenbaum | SES |
| Rob Briskman | Sirius/XM |
| Andrew Roy | ASR |
| Gregory Baker | ASR |
| Jack Wengryniuk | Inmarsat |
| Observers | |
| Name | Company |
| Tom Hayden | TLH Consulting |
| Don Jansky | Jansky-Barmat Telecommunications |
| Shelli Rose Haskins | ACES for NOAA |
| Larry Reed | ARTS for NASA |
| Charles Wende | ASTS for NASA |
| Mike Biggs | FAA |
| Amy Sanders | NTIA |
| Lauren Crean | TMG Telecom |
| Andy Feltman | Peraton for DoD/CIO |
| James Higgins | ASRC |
| Pat Amodio | Thales |
| Tom VonDeak | ACES |
| Jonathan Williams | NSF |
| Dave Pattillo | SpaceX |
| Gerry Shewan | Telecomm Strategies |
| Kim Kolb | Boeing |
| Kellen Gibson | NTIA |
| Colin Alberts | FTI for DoD/DISA |
| FCC Representatives | |
| Name | Company |
| Michael Mullinix | FCC |
| Dante Ibarra | FCC |