DRAFT MINUTES[[1]](#footnote-1)

**Minutes of the Third Meeting of the FCC**

**World Radiocommunication Conference Advisory Committee (WRC-19)**

Date/Time: April 18, 2017, at 11:00 a.m.

Location: Federal Communications Commission

Commission Meeting Room (TW-C305)

445 12th Street, S.W., Washington, D.C.

Committee Members Attending: See Appendix 1

Other Persons Attending: See Appendix 2

Meeting Summary:

**1. Opening Remarks**

Mr. Power welcomed everyone to the third meeting of the Committee. He thanked the members for their work and welcomed Chairman Pai and Commission O’Rielly to the meeting and said that their presence demonstrated how important it is to strengthen U.S. positions ahead of the June 2017 CITEL meeting.

Chairman Pai thanked the members for their participation on the Committee. He stated that WRC’s must promote a stable and predictable regulatory environment. WRC-19 provides a unique opportunity to set spectrum allocations and harmonize technical operations internationally to aid in the development and deployment of cutting edge technologies. He stated that the Committee is a crucial element in the preparation for the U.S. positions for WRC-19. He encouraged the membership to continue to work together and find consensus, even though finding consensus is challenging on the issues facing the Committee. Chairman Pai said he looks forward to the Committee developing strong U.S. proposals that will forge strong regional agreements at CITEL, leading to a successful outcome at WRC-19. He thanked everyone for their effort on behalf of American consumers, the FCC and the United States.

Commissioner O’Rielly reflected on his experience at WRC-15 and said that he wants to continue to be involved and would be at CITEL in June 2017, the ITU Plenipotentiary Conference, and WRC-19. He encouraged greater engagement and cooperation between competing industries. He indicated we need to find common ground and that no one wins one hundred percent of the time. He encouraged greater participation in the WRC process. Based on his WRC-15 participation, he said it is not acceptable to trade the government side of the equation for the commercial side, and we need to do more on the commercial side of the equation.

Mr. Power thanked Chairman Pai and Commissioner O’Rielly for their comments.

Mr. Murphy thanked everyone for coming to the meeting and echoed the Chairman and Commissioner’s comments and encouraged the Chairs and Committee members to continue the high level of cooperation that that has existed within the groups and continue to work toward common proposals where possible.

**2. Approval of the Agenda**

The agenda, Document **WAC/027(18.04.17)**, was approved without change.

1. **Minutes of the Second Meeting**

The minutes of the second meeting, Document **WAC/024(18.04.17)**, were approved.

1. **NTIA Draft Preliminary Views and Proposals**

Mr. Murphy invited Mr. Glass, the NTIA representative, to update the Committee on the Interdepartment Radio Advisory Committee (IRAC) process. Mr. Glass said the IRAC has been working to complete preliminary views and begin work on draft proposals for WRC-19. The Committee has given the IRAC a lot to work on and they have been successful in working with the FCC on the reconciliation process. He indicated that the Committee had before it documents from the IRAC that are its versions of the preliminary views and had two proposals for consideration at the meeting. He will immediately following the meeting send the seven documents for review by the IRAC and hopes to have all of those documents, if approved, ready to go forth to CITEL. He looks forward to working with the WAC and speaking with one voice at WRC-19.

Mr. Murphy noted Documents **WAC/025(18.04.17)**, **WAC/026(18.04.17)**, and **WAC/028(18.04.17)** containing the draft preliminary reviews and proposals received from NTIA.

No other comments received on these documents.

1. **IWG Status reports and Consideration of Preliminary Views**

**IWG-1: Maritime, Aeronautical and Radar Services**

Mr. Murphy introduced Mr. Cramer, Chair of IWG-1. Mr. Cramer outlined the issues that are under the purview of IWG-1 and reported that IWG-1 held three meetings since the last meeting of the Committee. He reported that IWG-1 had one draft preliminary view, consisting of edits to the NTIA proposal for Agenda Item 9.1, Issue 9.1.4, for the Committee to consider. He reported that IWG-1 did not intend to change the intent or substance of the NTIA view, but made clarifying edits and that the industry supports performing the studies. He indicated that IWG-1 believes that a formal proposal under Agenda Item 10 should be developed if there is a desire for a future agenda item.

Agenda Item 9.1, Issue 9.1.4: to conduct studies to identify any required technical and operational measures, in relation to stations on board sub-orbital vehicles, that could assist in avoiding harmful interference between radiocommunication services— Document **WAC/035(18.04.17)**, a draft preliminary view based on NTIA’s draft preliminary view in Document **WAC/026(18.04.17)**, was approved.

**IWG-2: Terrestrial Services**

Mr. Power recognized Ms. Paoletta, Vice Chair of IWG-2, which covers terrestrial issues, to present the report.

Agenda Item 1.1: to consider an allocation of the frequency band 50-54 MHz to the amateur service in Region 1, in accordance with Resolution **658 (WRC-15)** — Document **WAC/030(18.04.17)**, a Draft Preliminary View, was approved.

Agenda Item 1.11: to take necessary actions, as appropriate, to facilitate global or regional harmonized frequency bands to support railway radiocommunication systems between train and trackside within existing mobile service allocations, in accordance with Resolution **236 (WRC-15).**

Ms. Paoletta indicated that IWG-2 reviewed NTIA’s draft Preliminary View (Document **WAC/026(18.04.17)** on Agenda Item 1.11 and had no concerns with that Preliminary View and leaves the final version to the reconciliation process — Document **WAC/031(18.04.17)**, a Draft Proposal, was approved.

Agenda Item 1.12: to consider possible global or regional harmonized frequency bands, to the maximum extent possible, for the implementation of evolving Intelligent Transport Systems (ITS) under existing mobile-service allocations, in accordance with Resolution **237 (WRC-15).**

Ms. Paoletta indicated that IWG-2 reviewed NTIA’s draft Preliminary View (Document **WAC/026(18.04.17)** on Agenda Item 1.12 and had no concerns with that Preliminary View and leaves the final version to the reconciliation process — Document **WAC/032(18.04.17)**, a Draft Proposal, was approved.

Agenda Item 9.1, Issue 9.1.5: Consideration of the technical and regulatory impacts of referencing Recommendations ITU R M.1638-1 and ITU R M.1849-1 in Nos. 5.447F and 5.450A of the Radio Regulations — Draft Proposal, Document **WAC/033(18.04.17)**

Ms. Paoletta indicated some concerns had been raised in IWG-2 and Mr. Power called for

comments on Document **WAC/033(18.04.17)**. Mr. Kotler, of Lockheed Martin, stated that Lockheed Martin and Aviation Spectrum Resources, Inc. (ASRI) provided technical comments on the RLANS community draft proposal to ensure that protectable new radar technologies are not left unprotected. Lockheed Martin and ASRI seek to work within IWG-2 to see if consensus can be reached between the radar and RLANS communities on how to properly frame this issue, hoping to find a consensus proposal or a fully vetted set of alternatives that concentrate attention on outstanding differences.

No other comments were offered. Mr. Power reminded the membership that the goal is consensus and stated that, given the comments received on the proposal on Agenda Item 9.1, Issue 9.1.5, it is appropriate to send the document back to IWG-2 for further consideration.

Document **WAC/033(18.04.17)** was returned to IWG-2 for further consideration.

Agenda Item 9.1, Issue 9.1.8: on the activities of the Radiocommunication Sector since WRC-15, Issue 9.1.8: – Resolution **958 (WRC-15)** – Urgent studies required in preparation for WRC-19 – Narrowband and broadband machine-type communication infrastructures.

Ms. Paoletta stated that IWG-2 had reviewed the draft proposal on Issue 9.1.8 from NTIA, which made format changes and some additional text calling for the suppression of the studies in the resolution (Issue 3 in Resolution 958) —Document **WAC/034(18.04.17)**, a draft proposal based on NTIA’s draft proposal in Document **WAC/025(18.04.17)**, was approved.

Mr. Power noted that IWG-2 has endorsed the proposals found in NTIA versions of preliminary views related to Agenda Items 1.11, 1.12 and 1.15, all contained in document **WAC/026(18.04.17)**.

**IWG-3: Space Services**

Mr. Murphy introduced Mr. Wengryniuk, Chair of IWG-3. He reported that IWG-3 held three meetings since the last meeting of the Committee, and had one preliminary view for the Committee to consider. Mr. Wengryniuk stated that IWG-3 had prepared its preliminary view on Agenda Item 9.1, Issue 9.1.7, and subsequently received NTIA’s draft proposal on Issue 9.1.7. IWG-3 reviewed NTIA’s proposal in light of its preliminary view and offered its suggested edits to NTIA’s draft proposal, adding a paragraph from IWG-3’s preliminary view and formatting edits.

Agenda Item 9.1, Issue 9.1.7: Resolution **958 (Rev.WRC-15)**: to consider and approve the Report of the Director of the Radiocommunication Bureau, in accordance with Article 7 of the Convention, on the activities of the Radiocommunication Sector since WRC-15 on the urgent studies required in preparation for WRC-19 on the unauthorized

operation of earth station terminals (Res. ITU-Resolution **64 (RA-15)**) — Document **WAC/029(18.04.17)**, a draft proposal based on NTIA’s draft proposal in Document **WAC/025(18.04.17)**, was approved.

Mr. Murphy noted that IWG-3 has endorsed the NTIA preliminary view on Agenda Item 1.2 contained in document **WAC/028(18.04.17)**. Mr. Wengryniuk agreed that IWG-3 endorsed NTIA’s preliminary view on Agenda Item 1.2, and noted that IWG-3 is not yet in a position to endorse NTIA’s preliminary view on Agenda Item 1.3, also contained in document **WAC/028(18.04.17)**.

**IWG-4: Regulatory Issues**

Mr. Power introduced the IWG-4 Chair, Ms. Manner. She reported that she expected most of IWG-4’s work to fall under Agenda Item 7 on the review of Resolution 86, ways to improve satellite publication, notification, coordination and recordation. She expects that IWG-4 will need to prepare a preliminary view, and possibly a proposal, on bringing into use NGSOs. She indicated that the U.S. has already put forth recommendations to CITEL on the planned bands (Appendices 30, 30A and 30B) for assignments for FSS and BSS. She also reported issues determining the appropriate coordination arc for FSS satellites, most likely in the Ka-band. She looks forward to the continued work of IWG-4.

Mr. Power thanked the Chairs and Vice Chairs for their presentations.

1. **Future Meetings**

Mr. Power referred to Document **WAC/004(18.04.17)**, the timeline for the Committee’s work, and announced October 30, 2017 at 11 a.m., as the date of the fourth meeting of the Committee.

Mr. Weller, National Association of Broadcasters, pointed out that the timeline, Document **WAC/004(18.04.17)**, did not include the Working Party 6C meetings in October 2016. Mr. Mullinix said that the Working Party 6C meetings would be included in the next revision.

Mr. Mullinix stated that the Chairs and Vice Chairs acknowledged that there was very little time to hold a Committee meeting that did not overlap with ITU-R meetings, and leaves very little time to enter into reconciliation with NTIA. The FCC, along with NTIA and the State Department, will work with CITEL to encourage it to adjust its schedule so as not to overlap with the ITU-R study schedule.

**7. Other Business**

Mr. Murphy asked if there were any additional comments. Hearing none, he introduced Mr. Mullinix to update the Committee on the reconciliation process.

Mr. Mullinix thanked the Committee members for their work in providing preliminary views on nearly every agenda item for WRC-19. He explained that following a two week public comment period on the WAC recommendations, the FCC works with NTIA and the federal agencies through the reconciliation process to develop consensus United States preliminary views and proposals to submit to CITEL. At the second WAC meeting in October 2016, the Committee approved 17 preliminary views, only three of which (Agenda Items 1.4, 1.8 and 1.13), were reconciled and submitted to CITEL. The FCC and NTIA are working diligently to reconcile all the remaining preliminary views. He was pleased to report that preliminary views on16 agenda items have been reconciled:

Agenda Items 1.2, 1.4, 1.5, 1.6, 1.8, 1.9.1, 1.9.2, 1.10, 1.11, 1.12, 1.13, 1.14, and 1.15 and Issues 9.1.2, 9.1.3, and 9.1.4. Mr. Mullinix reported that the final documents out of reconciliation will be posted to the WAC webpage under “U.S. WRC-19 Contributions to CITEL PCCII.” The FCC and NTIA will continue to work on the remaining views and proposals leading up to the June 2017 CITEL meeting.

Mr. Murphy asked if there were any other comments on the reconciliation process or any other business.

There being no other business, the meeting was adjourned at 11:45 a.m.

Documents Distributed:

WAC/004 WRC-19 Preparatory Timeline

WAC/024 Draft Minutes of the Second Meeting (10/24/16)

WAC/025 NTIA Draft Proposals Agenda Item 9.1.7 and Agenda Item 9.1.8

WAC/026 NTIA Draft Preliminary View Agenda Items 1.11, 1.12, 1.15, and 9.1.4

WAC/027 Agenda of the Third Meeting (18.04.17)

WAC/028 NTIA Draft Preliminary Views on Agenda Item 1.2 and Agenda Item 1.3

WAC/029 IWG-3 Draft Proposal Agenda Item 9.1, Issue 9.1.7

WAC/030 IWG-2 Draft Preliminary View Agenda Item 1.1

WAC/031 IWG-2 Draft Proposal Agenda Item 1.11

WAC/032 IWG-2 Draft Proposal Agenda Item 1.12

WAC/033 IWG-2 Draft Proposal Agenda Item 9.1, Issue 9.1.5

WAC/034 IWG-2 Draft Proposal Agenda Item 9.1, Issue 9.1.8

WAC/035 IWG-1 Draft Preliminary View Agenda Item 9.1, Issue 9.1.4

MINUTES

**Appendix 1**

**World Radiocommunication Conference Advisory Committee Attendance**

**Third Meeting – April 18, 2017**

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| Reza Arefi, Intel Corp. |
| Kim Baum, SES Americom |
| Nina Beebe, Access Partnership |
| Winston Caldwell, 21st Century Fox |
| Joseph Cramer, Boeing |
| Giselle Creeser, Inmarsat |
| Dave Case, Cisco |
| Kyle Entz, Sprint |
| Louis Fiore, Central Station Alarm Association |
| Alexander Gerdenitsch, Intelsat |
| Kris Hutchison, Aviation Spectrum Resources, Inc. |
| Don Jansky, Jansky-Barmat Telecommunications |
| William K. Keane, Aerospace and Flight Test Radio Coordinating Council |
| Scott Kotler, Lockheed Martin |
| Damon Ladson, Harris Wiltshire Grannis |
| Jennifer Manner, EchoStar |
| Eric Miller, Nextlink |
| Christopher Murphy, ViaSat |
| Tom Power, CTIA |
| Mark Racek, Ericsson |
| Veena Rawat, GSMA |
| Juan Roldan, TMG, Inc. |
| Alexander Roytblat, Wi-Fi Alliance |
| Gerhard Schoenthal, Virginia Diodes, Inc. |
| Andy Scott, National Cable and Telecommunications Association |
| Robert Weller, National Association of Broadcasters |
| Jack Wengryniuk, AT&T |

**MINUTES**

**Appendix 2**

**World Radiocommunication Conference Advisory Committee Attendance**

**Third Meeting – April 18, 2017**

**FCC Representatives:**

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| --- |
| Michael Mullinix |
| Dante Ibarra, FCC |
| Jose Albuquerque, FCC |
| Donna Christianson, FCC |
| Larry Olson, FCC |
| Allen Yang, FCC |

**Observers:**

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| --- |
| Gregory Baker, Aviation Spectrum Resources, Inc. |
| Robert Briskman, SiriusXM |
| Charles Glass, NTIA |
| Maria Kirby, CTIA |
| Mark Mayher |
| Patricia Paoletta, Harris Wiltshire Grannis |
| Brian Patten, NTIA |
| John Prendergast, Central Station Alarm Association |
| Jackie Ruff, Verizon |
| Amy Sanders, NTIA |
| Colleen Sechrest, Harris Wiltshire Grannis |
| Brandy Sykes, NTIA |
| Joanne Wilson, ASRC representing NASA |
| Lisa Youngers, Nextlink |

1. To be considered and approved at the 4th WAC meeting on October 30th, 2017. [↑](#footnote-ref-1)