FINAL MINUTES

Minutes of the Third Meeting of the FCC Advisory Committee
for the
2015 World Radiocommunication Conference (WRC-15)

Date/Time: March 7, 2013, 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

WRC-15 Advisory Committee (Committee) Chair Mr. Harris opened the meeting. Mr. Harris welcomed everyone to the third meeting of the WRC-15 Advisory Committee. He commented that the progress by all of the working groups has been nothing short of spectacular. The Informal Working Groups (IWGs) have largely completed the development of Preliminary Views and are beginning to develop proposals for WRC15. Mr. Harris said the process has gone smoothly, everyone has worked together really well and he thinks the process could not have proceeded better than it has to date.

2. Approval of the Agenda

The agenda, Document **WAC/031(07.03.13)**, was approved without change.

3. Minutes of the Second Meeting

The minutes of the second meeting, **Document WAC/028 (01.10.12)** were approved.

4. NTIA Draft Preliminary Views and Proposals

Ms. Cornell, Vice Chair of the WRC-15 Advisory Committee, acknowledged that our colleagues on the federal side have also made very good progress in preparation for the Conference. Since its last meeting the Committee received additional inputs from NTIA for consideration by this Committee in **Documents WAC/029/030/032** and **/033**. Ms. Cornell indicated that the relevant

Informal Working Groups have already considered these inputs and will be reporting on progress of their work addressing these inputs during this meeting. Ms. Cornell invited Dr. Drazenovitch of NTIA to update the Committee on progress from the federal agency perspective.

Dr. Drazenovich stated that the Radio Conference Subcommittee (RCS) will meet again on March 12, 2013 and will be reviewing the preliminary reviews coming from this meeting and the FCC, which will allow sufficient time to reconcile the FCC and NTIA preliminary views and draft proposals. She commented that the deadline to submit documents for CITEL is March 25, 2013. Dr. Drazenovich stated that NTIA looks forward to working with Mr. Roytblat to reconcile its proposals with the FCC.

Ms. Cornell thanked Dr. Drazenovich for her input.

5. IWG Status reports and Consideration of Preliminary Views and Draft Proposals

IWG-1: Maritime, Aeronautical and Radar Services

Ms. Allison, Chair of IWG-1, reported that IWG-1 has met three times since the last Committee meeting and has two documents for consideration; one a draft proposal and the other a draft preliminary review.

Agenda Item 1.13: to review No. **5.268** with a view to examining the possibility for increasing the 5 km distance limitation and allowing space research service (space-to-space) use for proximity operations by space vehicles communicating with an orbiting manned space vehicle, in accordance with Resolution **652 (WRC 12)** – Document **WAC/037(07.03.13)**, a draft proposal based on NTIA's draft proposal in **Document WAC/032(07.03.13)**, was approved.

Agenda Item 1.16: to consider regulatory provisions and spectrum allocations to enable possible new Automatic Identification System (AIS) technology applications and possible new applications to improve maritime radiocommunication in accordance with **Resolution 360 (WRC-12)** – Document **WAC/038 (07.03.13),** a draft preliminary view, was approved.

Ms. Allison announced that following the conclusion of CITEL and the next round of working parties, IWG-1will meet on June 4, 2013 at 9 a.m.

IWG-2 – Terrestrial Services

Mr. Rush, Chair of IWG-2, reported that IWG-2 has three documents for consideration by the Committee.

Agenda Item 1.1: to consider additional spectrum allocations to the mobile service on a primary basis and identification of additional frequency bands for International Mobile Telecommunications (IMT) and related regulatory provisions, to facilitate the development of terrestrial mobile broadband applications, in accordance with Resolution **233 (WRC-12)** in the bands1435-1525 MHz. Mr. Rush stated that this is a frequency band that is of vital importance to the United States Commercial and Government interest with regard to aeronautical mobile telemetry. It is a cornerstone to the flight support for our aircraft industry. It is also a band that Mr. Rush can personally attest to that the United States has been at the forefront of defending since at least WRC-92. **Document WAC/034(07.03.13)**, a draft preliminary view, was approved.

Agenda Item 1.1: to consider additional spectrum allocations to the mobile service on a primary basis and identification of additional frequency bands for International Mobile Telecommunications (IMT) and related regulatory provisions, to facilitate the development of terrestrial mobile broadband applications, in accordance with Resolution 233 (WRC-12) in the bands1695-1710 MHz — **Document WAC/035(07.03.13)**, a draft preliminary view based on NTIA's draft preliminary view in **Document WAC/030(07.03.13)**, was approved.

Agenda Item 1.1: to consider additional spectrum allocations to the mobile service on a primary basis and identification of additional frequency bands for International Mobile Telecommunications (IMT) and related regulatory provisions, to facilitate the development of terrestrial mobile broadband applications, in accordance with Resolution **233 (WRC-12)** in the bands 5350-5470 MHz — **Document WAC/036(07.03.13)**, a draft preliminary, was approved.

The other issues Mr. Rush addressed were with regard to NTIA's proposals on Agenda Item 1.4.

Agenda Item 1.4: to consider possible new allocation to the amateur service on a secondary basis within the band 5 250-5 450 kHz in accordance with Resolution **649 (WRC-12)**.

Mr. Rush explained that the band in question is equivalent to 5.25 to 5.45 MHz. Therefore, the difference between the NTIA view and the industry view is a matter of kilohertz in a 5 MHz band. NTIA feels that 15 KHz is adequate, while the industry is asking for ten times that amount. He reported that the parties are talking and are trying to resolve their differences and hopes to report progress in the future.

Mr. Harris noted that Mr. Wengryniuk is not present at this meeting and Ms. Baum, Vice Chair of IWG-3, will report in Mr. Wengryniuk's place.

IWG-3 – Space Services

Ms. Baum, Vice Chair of IWG-3, reported that while IWG-3 does not have any documents to present at this meeting the group has been busy. IWG-3 has either developed preliminary views on all of its agenda items or supported the RCS versions of preliminary views. IWG-3 has held three meetings since the last WAC. Ms. Baum reported IWG-3 has a proposal on Agenda Item 1.10 dealing with potential additional MSS allocations in the 22 to 26 GHz frequency range under development that will be finalized after the next round of ITU Working Party meetings.

Ms. Baum announced that IWG-3's next meeting is scheduled for June 5, 2013 at 11a.m.

IWG-4 – Regulatory Issues

Mr. Baruch, Chair of IWG-4, reported that IWG-4 has held three meetings since the last Committee meeting. He stated that IWG-4 is starting to bring some of its preliminary views to the Committee and has begun consideration of proposals. IWG-4 received and is considering a proposal on Agenda Item 7 from NTIA RCS, so IWG-4 will have proposals for the Committee meeting in September. For this meeting, IWG-4 had three preliminary views, two developed by IWG-4 and one with edits to a NTIA RCS preliminary view.

Agenda Item 9.1.4 Updating of the Radio Regulations in accordance with Resolution **67 (WRC-12)** — **Document WAC/039(07.03.13)**, a draft preliminary view, was approved.

Agenda Item 9.1.2: Studies on possible reduction of the coordination arc and technical criteria used in application of No. 9.41 in respect of coordination under No. 9.7 as per Resolution **756 (WRC-12)**. Mr. Baruch noted that this is IWG-4's second preliminary view on this particular Agenda Item. A previous preliminary view with respect to the Ka-band was reconciled and sent to the fall CITEL meeting. **Document WAC/040(07.03.13)**, a draft preliminary view, was approved.

Agenda Item 9.1.8 to consider and approve the Report of the Director of the Radiocommunication Bureau, in accordance with Article 7 of the Convention:
9.1: on the activities of the Radiocommunication Sector since WRC-12
Section 9.1.8 of the CPM Report: Resolution **757 (WRC-12)** Regulatory aspects for nanosatellites and picosatellites — Document **WAC/041(07.03.13**), a draft preliminary view based on NTIA's preliminary view found in **Document WAC/033(07.03.13)**, was approved.

Mr. Baruch announced that the next meeting for IWG-4 has been scheduled for June 5, 2013 at 1:30 p.m.

6. Future Meetings

Mr. Harris referred to **Document WAC/004(Rev. 07.03.13)**, the updated timeline for the Committee's work. He indicated that after taking into account relevant international meetings and allowing the IWGs time to advance the development of their recommendations, the next meeting of the Committee is set for September 19, 2013 at 11 a.m.

Following comments, Mr. Harris noted that the date of the next meeting is not on the timeline, **Document WAC/004(Rev. 07.013.13).**

8. Other Business

Mr. Rush announced that the next meeting for IWG-2 is June 12, 2013.

Mr. Harris thanked everyone, noting that this process has gone smoothly and efficiently and that everyone should be very proud for doing great work.

There being no other business, the meeting was adjourned.

Documents Distributed:

WAC/004	WRC-15 Preparatory Timeline (rev. 07.03.13)
WAC/028	Draft Minutes of Second Meeting 01.10.12
WAC/029	Letter, 4 October 2012, Draft Preliminary Views on Agenda Item 1.4 secondary amateur HF allocation) in the 5250-5450 kHz range.
WAC/030	Letter, 30 January 2013, Draft Preliminary Views on Agenda Item 1.1 (1695-1710 MHz)
WAC/031	Agenda for Third WRC-15 Advisory Committee Meeting
WAC/032	Letter, 14 February 2013, Draft Proposals on Agenda Items 7 (No. 11.49) and 1.13
WAC/033	Letter, 15 February 2013, Draft Proposals on Agenda Item 9.1.8 (nanosatellites/picosatellites)
WAC/034	IWG-2 Draft Preliminary View on Agenda Item 1.1 (bands 1435-1525 MHz)
WAC/035	IWG-2 Draft Preliminary View on Agenda Item 1.1 (bands 1695-1710 MHz)
WAC/036	IWG-2 Draft Preliminary View on Agenda Item 1.1 (bands 5350-5470 MHz)
WAC/037	IWG-1 Draft Proposals Agenda Item 1.13
WAC/038	IWG-1 Draft Preliminary View Agenda Item 1.16
WAC/039	IWG-4 Draft Preliminary View Agenda Item 9.1.4 (Res. 67)
WAC/040	IWG-4 Draft Preliminary View Agenda Item 9.1.2 (Res. 756)
WAC/041	IWG-4 Draft Preliminary View Agenda Item 9.1.8 (Res.757)

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Appendix 1
WRC-15 Advisory Committee Attendance
Third Meeting – March 7, 2013

Jose Albuquerque, Intelsat
Audrey L. Allison, The Boeing Company
Stephen Baruch, Lerman Senter LLC representing
Hughes Network Systems LLC
Kim Baum, SES
David Case, Cisco Systems
Diane J. Cornell, Inmarsat
Kyle Entz, Sprint Nextel Corporation
Alexander Gerdenitsch, Motorla Mobility, Inc.
Neal Goldberg, National Cable & Telecommunications
Association
Scott Blake Harris, Neustar, Inc.
Kris Hutchison, Aviation Spectrum Resources, Inc.
William K. Keane, Duane Morris representing the
Aerospace and Flight Test Radio Coordinating Council
Damon C. Ladson, Wiltshire & Grannis LLP
Robert Markle, the Radio Technical Commission for
Maritime Services
Brennan T. Price, ARRL
Veena Rawat, Research in Motion
Charles Rush, Telecommunications Management Group,
Inc.
R. Jayne Stancavage, INTEL

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Appendix 2

WRC-15 Advisory Committee – FCC Representatives and Observers
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FCC Representatives:

Alexander Roytblat, FCC
Janice Shields, FCC
Sankar Persaud, FCC
Allen Yang, FCC
Dante Ibarra, FCC
Larry Olson, FCC

Observers:

Reza Arefi, Intel Corporation (alternate representative)
Kathyrn Martin, Access Partnership
Kelly O'Keefe, Access Partnership
Darlene Drazenovich, NTIA
Pascale Dumit, ITT Exelis for Department of Defense
Donald Jansky, Jansky-Barmat Telecommunications, Inc.
Charles Glass, NTIA
Scott Kotler, NTIA
Brian Patten, DOC, NTIA
Patricia Paoletta, Wiltshire & Grannis
Joanne Wilson, ASRC for NASA