

FINAL MINUTES

**Minutes of the Fourth Meeting of the FCC Advisory Committee  
for the  
2012 World Radiocommunication Conference (WRC-12)**

Date/Time: March 2, 2010 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-12 Advisory Committee (Committee) Co-Chair Paul Margie opened the meeting and noted that it had been six months since the last meeting of the Committee.

Co-Chair Thomas Navin thanked Bureau Chief Mindel De La Torre, FCC staff and Co-Chair Paul Margie for all that was done on behalf of the United States in Haiti following the earthquake.

Mindel De La Torre thanked Co-Chairs Paul Margie and Tom Navin, and FCC staff for their efforts on behalf of the WRC. She noted that she served as chair or vice chair of Informal Working Groups for past committees, and urged the Committee to take advantage of the extra time between the World Radio Conferences as an additional opportunity to prepare for WRC-12. She noted that the preparations in the U.S. are a microcosm of the world and disagreements that are worked through in the Committee allow the U.S. to go to WRC-12 better prepared, and that compromise within industry and within the government during the preparatory process puts the U.S. in a better position for the conference. She noted that 700 MHz is a difficult issue between Regions 1 and 3, but she believes there is time to develop our position on this issue. Ms. De La Torre acknowledged the Informal Working Group Chairs and Vice Chairs and thanked them for their extra efforts. She thanked everyone for coming to the meeting, and looks forward to making WRC-12 the best conference ever.

Mr. Margie thanked Ms. De La Torre for her leadership on negotiations within the U.S. government.

**2. Approval of the Agenda**

The agenda, Document **WAC/060(02.03.10)**, was approved without change.

**3. Approval of Draft Minutes of the Third Meeting**

The minutes of the third meeting, Document **WAC/054(01.09.09)**, were approved without change.

#### **4. Report on Recent WRC-12 Preparatory Meetings**

Alexander Roytbat, FCC WRC Director, responsible for WRC preparations and the Designated Federal Officer of the Committee, introduced Document **WAC/057(02.03.10)** that summarized the activities of the European (CEPT) WRC-12 Preparatory Group. He noted that the Europeans had met again last week, after the Committee meeting was originally scheduled. That meeting will be reported on at the next Committee meeting. He encouraged participants to review the report for the status of preparatory activities.

#### **5. NTIA Draft Preliminary Views**

Mr. Navin acknowledged the work of NTIA subsequent to the last meeting and asked the NTIA representatives to introduce themselves. Robin Haines, Jonathan Williams and Brandon Mitchell of NTIA introduced themselves, and Mr. Navin thanked them for attending. Mr. Navin introduced Documents **WAC/055(02.03.10)**, **WAC/058(02.03.10)** and **WAC/059(02.03.10)**, from NTIA.

The NTIA letters and enclosures were noted.

#### **1. New Guidelines for Federal Advisory Committee membership**

Mr. Roytbat introduced Document **WAC/056(02.03.10)** and gave a report on the White House Advisory guidance regarding participation by federally registered lobbyists on Federal Advisory Committees. The guidance received precludes participation by federally registered lobbyists, and Mr. Roytbat asked that lobbyists refrain from membership. He noted that they could still participate as observers.

#### **2. IWG Status reports and Consideration of Preliminary Views**

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

Robert Markle, Vice Chair of IWG-1, reported that two meetings of IWG-1 were held since the last meeting of the full committee, and that IWG-1 had considered several proposals from NTIA on Agenda Items 1.10 and 1.12 and had one draft proposal for the Committee to consider.

IWG-1 considered the two NTIA proposals contained in Document **WAC/055(02.03.10)** on Agenda Item 1.10. IWG-1 could not agree on the proposal concerning the 495- 525 KHz band. IWG-1 noted that under Document **WAC/053(01.01.09)**, the WAC approved a proposal under Agenda Item 1.23 that includes this band and would add a secondary allocation to the amateur service between 495 and 510 KHz. The Committee cannot adopt the NTIA proposal without altering the proposal on Agenda Item 1.23 which is being addressed by IWG-2. The maritime community is considering using this band for digital communications that would allow a transfer rate of 47.5 kbps over 380 nautical miles as part of the port safety and security initiative.

IWG-1 had no objection to the second proposal in **WAC/055** on AIS.

Agenda Item 1.12: to protect the primary services in the band 37-38 GHz from interference resulting from aeronautical mobile service operations, taking into account the results of ITU R studies, in accordance with Resolution **754 (WRC 07)** – Document **WAC/063(02.03.10)**, proposed modifications to NTIA's proposal, was approved.

Mr. Markle noted that work continued on the other items IWG-1 is responsible for: Agenda Items 1.3 (UAS), 1.4 (AMRS), 1.9 (Appendix 17), 1.14 (30-300 MHz radio location), 1.15 (3 - 50 MHz radio location), 1.21 (15 GHz radio location), 8.2 (future agenda items), and that a new proposal had been offered recently for Agenda Item 1.10.

### **IWG-2 – Terrestrial**

IWG-2 Chair Kim Baum reported that IWG-2 had no proposals for consideration at this meeting. IWG-2 held three meetings since the last meeting of the full Committee and much of IWG-2's work had focused on 1.20 (HAPS gateway links in the C-band). IWG-2 is continuing to work on Agenda Item 1.20 and hopes to have a proposal for a future meeting of the Committee.

Ms. Baum noted that the recent proposals from NTIA did not affect any Agenda Items under the purview of IWG-2 so they had not been considered by IWG-2. The next meeting of IWG-2 will be after the April 2010 meeting of CITEL PCCII.

### **IWG-3: Space Services**

Donna Bethea-Murphy, the Vice Chair of IWG-3, reported that IWG-3 met three times since the last meeting of the full Committee and had draft proposals on two of the seven WRC-12 Agenda items assigned to IWG-3.

Agenda Item 1.11: to consider a primary allocation to the space research service (Earth-to-space) within the band 22.55-23.15 GHz, taking into account the results of ITU-R studies, in accordance with Resolution **753 (WRC-07)** - Document **WAC/061(02.03.10)**, a draft proposal, was approved.

Agenda Item 1.18: to consider extending the existing primary and secondary radiodetermination-satellite service (space-to-Earth) allocation in the bands 2 483.5-2 500 MHz in order to make a global primary allocation, and to determine the necessary regulatory provisions based upon the results of ITU-R studies, in accordance with Resolution **613 (WRC-07)** - Document **WAC/062(02.03.10)**, a draft proposal, was approved.

Ms. Bethea-Murphy summarized the outstanding agenda items IWG-3 is considering:

Agenda Item 1.24: IWG-3 has no comment on the NTIA proposal as the band is not commercially available.

Agenda Item 1.25: IWG-3 will wait to see the outcome of this item in ongoing ITU studies.

Future Agenda Items: IWG-3 has nothing at this time on this Agenda Item.

Ms. Bethea-Murphy noted that IWG-3 did not have any meeting scheduled at this time. She indicated that IGW-3 expects to meet again in April in coordination with IWG-2.

### **IWG-4: Regulatory Issues**

IWG-4 Chair Audrey Allison stated that IWG-4 had three proposals for consideration by the full

Committee. IWG-4 met six times since the last full committee meeting.

Agenda Item 7: to consider possible changes in response to Resolution **86** (Rev. Marrakesh, 2002) of the Plenipotentiary Conference: “Advance publication, coordination, notification and recording procedures for frequency assignments pertaining to satellite networks,” in accordance with Resolution **86 (Rev.WRC 07)**, Document **WAC/064(02.03.10)** and **WAC/065(02.03.10)**.

Ms. Allison explained that Document **WAC/064(28.07.10)** addresses Resolution **49** (administrative due diligence). The full Committee previously considered this proposal in Document **WAC/042(01.01.09)**, containing two elements (modification of Resolution **49** and a new resolution to increase transparency in publication). In the reconciliation process, NTIA responded with a proposal (Document **WAC/058(02.03.10)**) that only contained a resolution on publication and did not address Resolution **49**. NTIA’s proposal on publication is very similar to that proposed by IWG-4, and IWG-4 has approved the NTIA proposal on publication contained in **WAC/058(02.03.10)**. IWG-4 drafted the new proposal contained in Document **WAC/064(28.07.10)** updating Resolution **49** to address the congested commercial FFS, C-, and KU bands which replaces Document **WAC/042(01.01.09)**.

Document **WAC/065(02.03.10)**, is a new proposal regarding how harmful interference is addressed by the ITU’s Radiocommunication Bureau.

Documents **WAC/064(02.03.10)** and **WAC/065(02.03.10)**, draft proposals, were approved.

Agenda Item 8.1: to consider and approve the Report of the Director of the Radiocommunication Bureau:

8.1.2 on any difficulties or inconsistencies encountered in the application of the Radio Regulations; Document **WAC/066(02.03.10)**, a draft proposal, was approved.

Agenda Item 1.2: IWG-4 is not yet ready to comment on this item contained in NTIA’s proposal Document **WAC/040(01.09.09)**. IWG-4 is working to find a more discrete treatment other than NOC and find a way forward that will be acceptable to all the participants of IWG-4.

Ms. Allison announced that IWG-4 will meet again on April 13, 2010, at 10:00 A.M. and will continue to work on Agenda Items 1.6, 1.2, 2, 4 and 8.1.

### **3. Future Meetings**

Mr. Margie announced that the fifth meeting of the Committee would be held on July 28, 2010, and introduced Document **WAC/004(02.03.10)**, a timeline setting forth the dates of national, regional, and international preparatory meetings leading up to WRC-12.

The timeline document was noted.

### **9. Other Business**

There being no new business, the meeting adjourned.

Documents Distributed:

WAC/004 WRC-11 Preparatory Timeline (Revised 31.03.09)  
WAC/054 Draft Minutes of the Third Meeting of the WRC-12 Advisory Committee,  
September 1, 2009  
WAC/055 Letter, 29 September 2009, Draft Proposal on Agenda Item 1.10  
WAC/056 New Guidelines for Federal Advisory Committee Membership Document  
WAC/057 Report on Recent CEPT WRC-12 Preparatory Meetings  
WAC/058 Letter, 10 December 2009, Draft Proposal on Agenda Item 7  
WAC/059 Letter, 20 January 2010, Draft Proposal on Agenda Items 1.11 and 1.12  
WAC/060 Agenda  
WAC/061 Draft Proposal on Agenda Item 1.11 (IWG-3)  
WAC/062 Draft Proposal on Agenda Item 1.18 (IWG-3)  
WAC/063 Draft Proposal on Agenda Item 1.12 (IWG-1)  
WAC/064 Draft Proposal on Agenda Item 7 (IWG-4)  
WAC/065 Draft Proposal on Agenda Item 7 (IWG-4)  
WAC/066 Draft Proposal on Agenda Item 8.1.2 (IWG-4)

**MINUTES**  
**Appendix 1**  
**WRC-12 Advisory Committee Attendance**  
**Fourth Meeting – March 2, 2010**

Last Name	First Name	Occupation or Affiliation	Address	City	State	ZIP	Phone Number	Fax Number	E-mail Address
Albuquerque	Jose	Intelsat	3400 International Drive, NW	Washington	DC	20008	(202) 944-6897		Jose.Albuquerque@intelsat.com
Allison	Audrey	The Boeing Company	1200 Wilson Blvd.	Arlington	VA	22209	(703) 465-3215	(703) 465-3448	audrey.allison@boeing.com
Baum	Kim	Motorola, Inc.					(202) 371-6868	(202) 286-6089	kimberly.baum@motorola.com
Bethea-Murphy,	Donna	Iridium Satellite LLC					(301) 571-6277		Donna.bethea-murphy@iridium.com
Church	Gary	Aviation Management	1101 King Street, Suite 325	Alexandria	VA	22314	(703) 518-9923		Gary.church@avingt.com
Cramer	Joe	Boeing	1200 Wilson Blvd.	Arlington	VA	22209	(703) 465-3489		Joseph.Cramer@boeing.com
Hutchison	Kris	Aviation Spectrum Resources, Inc.	2551 Riva Road	Annapolis	MD	21401	(410) 266-4386	(202) 573-3003	<a href="mailto:keh@asri.sero">keh@asri.sero</a>
Jansky	Don	Jansky-Barmat Telecommunications	1120 19 <sup>th</sup> Street, NW, Suite 333	Washington	DC	20036	(202) 467-6400	(202) 296-6892	don@jansky-barmat.com
Khalilzadeh	Abdolmajid	INTELSAT	3400 International Drive, N.W.	Washington	DC	20008	(202) 944-7679	(202) 944-7870	adolmajid.khalilzadeh@intelsat.com
Ladson	Damon	Harris Wiltshire for SkyTerra & Iridium	1200 18 <sup>th</sup> Street, NW	Washington	DC	20006	(202) 730-1315	(202) 730-1314	<a href="mailto:dladson@harriswiltshire.com">dladson@harriswiltshire.com</a>
Margie	Paul	Harris, Wiltshire & Grannis, LLP	1200 Eighteenth Street, N.W., 12th Floor	Washington	DC	20036	(202) 730-1352	(202) 730-1301	pmargie@harriswiltshire.com
Markle	Robert	Radio Technical Commission for Maritime Services	1800 N. Kent St., Suite 1060	Arlington	VA	22209	(703) 527-2000	(703) 351-9932	RMarkle@rtc.org
Martin	Kathryn	Access Partnership Ltd. For Iridium	1050 Connecticut Avenue, NW	Washington	DC	20036	(202) 772-1870	(202) 772-3360	Kathryn@accesspartnership.com
Martinkovics	Leslie	Verizon	1300 I Street, NW	Washington	DC	20005	(202) 515-2433		Leslie.j.martinkovics@verizon.com
Navin	Thomas	Wiley Rein & Fielding LLP	1776 K Street, N.W.	Washington	DC	20006	(202) 719-7487	(202) 719-7049	tnavin@wrf.com
Price	Brennan	ARRL	3545 Chain Bridge Road, #209	Fairfax	VA	22030	(703) 934-2077	(703) 939-2079	bprice@arrl.org
Racek	Mark	Ericsson	1634 I Street, N.W., Suite 600	Washington	DC	20006	(202) 824-0110		Mark.racek@ericsson.com
Roseman	Walda	CompassRose	888 17 <sup>th</sup> Street,	Washington	DC	20006	(202) 833-2390		wroseman@compassroseintl.

		International	NW, Suite 620						com
Siverling	Jon	ARRL	3545 Chain Bridge Road, Suite 209	Fairfax	VA	22030	(703) 934-2066	(703) 934-2079	siverling@mindspring.com
Voorhies	Jim						(301) 585-8228		Jimandmaryvorhies@verizon.net

**MINUTES**  
**Appendix 2**  
**WRC-12 Advisory Committee – Others in Attendance**  
**Fourth Meeting – March 2, 2010**

Last Name	First Name	Occupation or Affiliation	Address	City	State	ZIP	Phone Number	Fax Number	E-mail Address
Cacciatore	Lisa	ITT for DSO	16701 Melford Blvd., Suite 200	Bowie	MD	20715	(202) 549-5486	(	Lisa.Cacciatore@itt.com
Christianson	Donna	FCC	445 12 <sup>th</sup> Street, SW	Washington	DC	20554	(202)418-7326	(202)418-0398	Donna.Christianson@fcc.gov
De La Torre	Mindel	FCC	445 12 <sup>th</sup> Street, SW	Washington	DC	20554	(202)418-0437	(202)418-2818	Mindel.Delatorre@fcc.gov
Dubroof	Linda	FCC	445 12 <sup>th</sup> Street, SW	Washington	DC	20554	(202)418-2335	(202)418-0398	Linda.Dubroof@fcc.gov
Haines	Robin	NTIA	1401 Constitution Avenue, NW	Washington	DC	20230	(202) 482-4096	(202) 501-8189	rhaines@ntia.doc.gov
Hill	Joseph	FCC	445 12 <sup>th</sup> Street, SW	Washington	DC	20554	(202)418-2215	(202)418-0748	Joseph.Hill@fcc.gov
Ibarra	Dante	FCC	445 12 <sup>th</sup> Street, SW	Washington	DC	20554	(202)418-0610	(202)418-0398	
Mitchell	Brandon	NTIA	1401 Constitution Avenue, NW	Washington	DC	20230	(202) 462-4487		<a href="mailto:bmitchell@ntia.doc.gov">bmitchell@ntia.doc.gov</a>
Mullinix	Michael	FCC	445 12 <sup>th</sup> Street, SW	Washington	DC	20554	(202)418-0491	(202)418-0398	Michael.Mullinix@fcc.gov
Nellis	Donald	FAA							
Olson	Larry	FCC	445 12 <sup>th</sup> Street, SW	Washington	DC	20554	(202)418-2142	(202)418-6131	Larry.Olson@fcc.gov
Persaud	Sankar	FCC	445 12 <sup>th</sup> Street, SW	Washington	DC	20554			
Roytblat	Alexander	FCC	445 12 <sup>th</sup> Street, SW	Washington	DC	20554	(202)418-7501	(202)418-0398	
Schleh	Caroline	FCC	445 12 <sup>th</sup> Street, SW	Washington	DC	20554			Caroline.Schleh@fcc.gov
Sung	Liching	NTIA	1401 Constitution Ave., NW	Washington	DC	20230	(202)482-3485	(202)501-8189	lsung@ntia.doc.gov
Tutmarc	Andrea	FCC	445 12 <sup>th</sup> Street, SW	Washington	DC	20554			Andrea.tutmarc@fcc.gov
Williams	Jonathan	NTIA	1401 Constitution Ave., NW	Washington	DC	20230	(202)482-0675		jwilliams@ntia.doc.gov
Wilson	Joanne	ASRCM for NASA	12021 Sunset Hills Road, Suite 330	Reston	VA	20190	(202) 669-4006	(253) 484-0330	Joanne.wilson@asrcm.com
Yang	Allen	FCC	445 12 <sup>th</sup> Street, SW	Washington	DC	20554	(202)418-0738	(202)418-0398	Allen.Yang@fcc.gov
Zoller	Julie	ITT Corporation	12975 Worldgate Drive	Herndon	VA	20170	(703) 668-6348		julie.zoller@itt.com