

DRAFT MINUTES

**Minutes of the Third Meeting of the FCC Advisory Committee  
for the  
2011 World Radiocommunication Conference (WRC-11)**

Date/Time: September 1, 2009 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-11 Advisory Committee (Committee) Co-Chair Paul Margie called the meeting to order at 11:05 a.m. and acknowledged the large amount of work that the Informal Working Groups accomplished in the five months since the Committee last met. Co-Chair Thomas Navin also thanked everyone for their effort.

Alexander Roytblat, FCC WRC Director, responsible for WRC preparations and the Designated Federal Officer of the Committee, thanked the participants for the quality and quantity of the work produced so far, and noted that some of the Committee's work served as a basis for U.S. positions at the last CITEL PCC II meeting.

**2. Approval of the Agenda**

The agenda, Document **WAC/039(01.09.09)**, was approved without change.

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

The minutes of the second meeting, Document **WAC/033(01.09.09)**, were approved without change.

**4. Report on Recent WRC-11 Preparatory Meetings**

Mr. Roytblat introduced Documents **WAC/034(01.09.09)**, **WAC/035(01.09.09)**, and **WAC/036(01.09.09)** that summarized the activities the European (CEPT) WRC-11 Preparatory Group, the Asia Pacific (APT) WRC-11 Preparatory Group, and CITEL PCC II preparations for WRC-11. He encouraged participants to review the reports for the status of preparatory activities.

#### 4. NTIA Draft Preliminary Views

Mr. Navin acknowledged the work of NTIA and called for comments from NTIA, if any. Brandon Mitchell of NTIA had no comments. Mr. Navin introduced Documents **WAC/037(01.09.09)**, **WAC/038(01.09.09)** and **WAC/040(01.09.09)**, from NTIA.

The NTIA letters and enclosures were noted.

#### 5. IWG Status reports and Consideration of Preliminary Views

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

Giselle Creeser, Chair of IWG-1, reported that two meetings were held since the last meeting of the full committee, and that IWG-1 had one draft proposal for the Committee to consider.

Agenda Item 1.3: to consider spectrum requirements and possible regulatory actions, including allocations, in order to support the safe operation of unmanned aircraft systems (UAS), based on the results of ITU-R studies, in accordance with Resolution 421 (WRC-07) – Draft Proposal, Document **WAC/046(01.09.09)**, a modification of the draft NTIA proposal, was approved.

Ms. Creeser also noted the following updates with regard to agenda items IWG-1 is considering:

Agenda Item 1.4: IWG-1 has considered the proposal, but decided it is premature to have a proposal on this agenda item and has tabled its work. Work will continue after the meeting of ITU-R Working Party 5B.

Agenda Items 1.09, 1.10, 1.12, 1.14, 1.15, and 1.21: IWG-1 has considered work toward developing draft proposals but has nothing at this time. Again, IWG-1 will be in a better position to consider these items after the meeting ITU-R Working Party 5B.

IWG-1 may not meet again before the next meeting of ITU-R Working Party 5B, but will meet as appropriate to consider additional inputs from NTIA.

##### **IWG-2 – Terrestrial**

IWG-2 Chair Kim Baum reported that IWG-2 held three meetings since the last meeting of the full Committee and had made quite a bit of progress, with proposals on five Agenda Items.

Agenda Item 1.5: To consider worldwide/regional harmonization of spectrum for electronic news gathering (ENG), taking into account the results of ITU-R studies in accordance with Resolution **954 (WRC-07)** – Document **WAC/049(01.09.09)**.

Jack Wengryniuk proposed an edit concerning “resolves 1” of the draft proposal, to read as follows:

to encourage administrations to ~~and~~ assist the broadcasting community in developing a database of currently available ENG frequencies, ENG technical and operational requirements, and spectrum authorization points of contact as appropriate,

There were no objections to the proposed edit, and Document **WAC/049(01.09.09)**, a draft proposal, was approved with the proposed edit.

Agenda Item 1.17: to consider the results of sharing studies between the mobile service and other services in the band 790-862 MHz in Regions 1 and 3, in accordance with Resolution **749 (WRC-07)**, to ensure the adequate protection of services to which the frequency band is allocated, and to take appropriate action - Document **WAC/050(01.09.09)**, a draft proposal, was approved.

Agenda Item 1.19: to consider regulatory measures and their relevance, in order to enable the introduction of software-defined radio and cognitive radio systems, based on the results of ITU-R studies, in accordance with Resolution **956 (WRC-07)** - Document **WAC/051(01.09.09)**, a draft proposal, was approved.

Agenda Item 1.22: to examine the effect of emissions from short-range devices on radiocommunication services, in accordance with Resolution **953 (WRC-07)** - Document **WAC/052(01.09.09)**, a draft proposal, was approved.

Agenda Item 1.23: to consider an allocation of about 15 kHz in parts of the band 415-526.5 kHz to the amateur service on a secondary basis, taking into account the need to protect existing services - Document **WAC/053(01.09.09)**, a draft proposal, was approved.

Ms. Baum noted that the next meeting of IWG-2 had not been scheduled. She further noted work was continuing in IWG-2 for Agenda Item 1.20 on HAPS feeder links in the C-band, and that although developing a draft proposal was proving somewhat controversial, the IWG is continuing to work on the item and hopes to have consensus on a proposal for the Committee to consider. Ms. Baum explained that the items presented at today's meeting cover all of the Agenda Items under the purview of IWG-2 that were addressed in NTIA proposals, and that, therefore, the IWG had no other comments on NTIA proposals.

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

Jack Wengryniuk, the Chair of IWG-3, reported that IWG-3 had draft proposals on two of the seven WRC-11 Agenda items assigned to IWG-3.

Agenda Item 1.13: to consider the results of ITU-R studies in accordance with Resolution **551 (WRC-07)** and decide on the spectrum usage of the 21.4-22 GHz band for the broadcasting-satellite service and the associated feederlink bands in Regions 1 and 3 – Document **WAC/047(01.09.09)**, a draft proposal, was approved.

Agenda Item 1.7: to consider the results of ITU-R studies in accordance with Resolution **222 (Rev. WRC-07)** in order to ensure long-term spectrum availability and access to spectrum necessary to meet requirements for the aeronautical mobile-satellite (R) service and to take action on this subject, while retaining unchanged the generic allocation to the mobile-satellite service in the bands 1 525-1 559 MHz and 1 626.5-1 660.5 MHz service - Document **WAC/048(01.09.09)**, a draft proposal, was approved.

Mr. Wengryniuk summarized the remaining agenda items IWG-3 is considering:

Agenda Item 1.11: IWG-3 has had active discussions and has made good progress but the item is not yet ready for the Committee to consider.

Agenda Item 1.18: IWG-3 may wait to see the outcome of this item at the meeting of ITU-R Working Party 4C.

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 at the meeting of ITU-R Working Party 4C.

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

Mr. Wengryniuk noted that IWG-3 did not have any meeting scheduled at this time, and thanked IWG-2 Chair Kim Baum for coordinating meetings of IWG-2 with meetings of IWG-3 to facilitate the work on Agenda Item 1.20.

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

IWG-4 Chair Audrey Allison stated the IWG-4 met three times since the last full committee meeting, and will meet again on September 29 from 10 a.m. to noon. IWG-4 had 5 items (4 draft proposals and one preliminary view) for the Committee to consider.

Agenda Item 1.2: taking into account the ITU-R studies carried out in accordance with Resolution 951 (Rev.WRC-07), to take appropriate action with a view to enhancing the international regulatory framework – Document **WAC/041(01.09.09)**, a draft preliminary view, was approved.

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)** - Documents **WAC/042(01.09.09)**, **WAC/043(01.09.09)**, and **WAC/044(01.09.09)**, draft proposals, were approved.

Agenda Item 8.2: to recommend to the Council items for inclusion in the agenda for the next WRC, and to give its views on the preliminary agenda for the subsequent conference and on possible agenda items for future conferences, taking into account Resolution 806 (WRC-07) – Document **WAC/045(01.09.09)**, a draft proposal, was approved.

Ms. Allison noted that additional work remains on other aspects of Agenda Item 7, specifically that IWG-4 is considering another proposal concerning integrated MSS systems. She also noted that IWG-4 is still working on Agenda Item 1.2. IWG-4 has not yet given Agenda Items 2, 4, 1.6 and 8.1, including Resolution 80, much consideration.

Ms. Allison stated that IWG-4 also reviewed NTIA draft proposals contained in **WAC/040(01.09.09)** and had the following comments:

Agenda Item 1.2: IWG-4 is not yet ready to support this item and is still considering it.

Agenda Item 1.6: IWG-4 endorses one aspect of 1.6 NOC with edits as discussed with Mr. Williams. She also noted that the proposal is incomplete as it doesn't say what happens to Resolution 955, but Ms. Allison noted that could be subject to a future draft proposal. Mr. Navin asked for comments on Agenda Item 1.6 as contained in Document **WAC/040(01.09.09)**, and hearing none, the draft proposal was approved.

## **6. Future Meetings**

Mr. Margie noted that the new dates established by the ITU for the WRC are January 23 to February 17, 2012, and advised the Committee that we will be changing the name of the advisory committee to the WRC-12 Advisory Committee. Mr. Margie also announced the date for the fourth meeting of the Committee, January 20, 2010, and introduced Document **WAC/004(01.09.09)**, a timeline setting forth the dates of national, regional, and international preparatory meetings leading up to WRC-12.

The timeline document was noted.

## **7. Other Business**

There being no new business, the meeting adjourned at 11:37 a.m.

Documents Distributed:

- WAC/004 WRC-11 Preparatory Timeline (Revised 31.03.09)
- WAC/033 Draft Minutes of the Second Meeting of the WRC-11 Advisory Committee, March 31, 2009
- WAC/034 Report from the Third Meeting of the CEPT WRC-12 Conference Preparatory Group
- WAC/035 Report from the Second Meeting of the APT Conference Preparatory Group
- WAC/036 Report from CITEEL PCC II Meeting
- WAC/037 Letter, 22 July 2009, Draft Preliminary Views on Agenda Items 1.5, 1.19 and 1.22
- WAC/038 Letter, 24 July 2009, Draft Preliminary Views on Agenda Item 1.3
- WAC/039 Agenda for the 3rd WRC-11 Advisory Committee Meeting
- WAC/040 Letter, 11 August 2009, Draft Preliminary Views on Agenda Item 1.2, 1.16 (Res. 955), 1.23 and 1.24
- WAC/041 Draft Preliminary View on WRC-11 Agenda Item 1.2 (IWG-4)
- WAC/042 Draft Proposal on WRC-11 Agenda Item 7 (IWG-4)
- WAC/043 Draft Proposal on WRC-11 Agenda Item 7 (IWG-4)
- WAC/044 Draft Proposal on WRC-11 Agenda Item 7 (IWG-4)
- WAC/045 Draft Proposal on WRC-11 Agenda Item 7 (IWG-4)
- WAC/046 Draft Proposal on WRC-11 Agenda Item 1.3 (IWG-1)
- WAC/047 Draft Proposal on WRC-11 Agenda Item 1.7 (IWG-3)
- WAC/048 Draft Proposal on WRC-11 Agenda Item 1.13 (IWG-3)
- WAC/049 Draft Proposal on WRC-11 Agenda Item 1.5 (IWG-2)
- WAC/050 Draft Proposal on WRC-11 Agenda Item 1.17 (IWG-2)
- WAC/051 Draft Proposal on WRC-11 Agenda Item 1.19 (IWG-2)
- WAC/052 Draft Proposal on WRC-11 Agenda Item 1.22 (IWG-2)
- WAC/053 Draft Proposal on WRC-11 Agenda Item 1.23 (IWG-2)

**MINUTES**  
**Appendix 1**  
**WRC-11 Advisory Committee Attendance**  
**Third Meeting – September 1, 2009**

Last Name	First Name	Occupation or Affiliation	Address	City	State	ZIP	Phone Number	Fax Number	E-mail Address
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
Cramer	Joe	Boeing	1200 Wilson Blvd.	Arlington	VA	22209	(703) 465-3489		Joseph.Cramer@boeing.com
Creeser	Giselle	Lockheed Martin Corp.	1550 Crystal Drive, Suite 300	Arlington	VA	22202	(703) 413-6983		giselle.creeser@lmco.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>
Keane	Ken	Duane Morris LLP	1667 K St., N.W., Suite 700	Washington	DC	20006-1608	(202) 776-5243	(202) 776-7801	kkeane@duanemorris.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	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	RMarkel@rtc.org
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
Rinker	Alan	The Boeing Co.					(703) 465-3340		Alan.g.rinker@boeing.com
Siverling	Jon	ARRL	3545 Chain Bridge Road, Suite 209	Fairfax	VA	22030	(703) 934-2066	(703) 934-2079	siverling@mindspring.com
Wengryniuk	Jack	DirecTV	6050 Elmer Derr Rd.	Frederick	MD	21703	(301) 663-0053	(240) 358-0569	jwengryniuk@directv.com
Wilson	Joanne	CompassRose International	1741 Holly St., N.W.	Washington	DC	20012	(202) 669-4006	(253) 484-0330	jwilson@compassroseintl.com

**MINUTES**  
**Appendix 2**  
**WRC-11 Advisory Committee – Others in Attendance**  
**Third Meeting – September 1, 2009**

Last Name	First Name	Occupation or Affiliation	Address	City	State	ZIP	Phone Number	Fax Number	E-mail Address
Cacciatore	Lisa	ITT for DoD					(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
DiLapi	Christine	Mitre Corporation	7515 Colshire Drive MSN150	McLean	VA	22102	(703) 983-7976		cdiplapi@mitre.org
Dillon	George	ASRCMS	12021 Sunset Hills Rd, Suite 330	Reston	VA	20190	(571)262-3120		George.dillon@asrcms.com
Dubroof	Linda	FCC	445 12 <sup>th</sup> Street, SW	Washington	DC	20554	(202)418-2335	(202)418-0398	Linda.Dubroof@fcc.gov
Gillsenan	Jennifer	FCC	445 12 <sup>th</sup> Street, SW	Washington	DC	20554	(202) 418-0757	(202)418-0398	Jennifer.Gilsenan@fcc.gov
Hill	Joseph	FCC	445 12 <sup>th</sup> Street, SW	Washington	DC	20554	(202)418-2215	(202)418-0748	Joseph.Hill@fcc.gov
Holiday	Cecily	Department of State	2201 C Street, NW	Washington	DC	20520	(202) 647-0051	(202) 647-7407	holidaycc@state.gov
Kirby	Paul	TR Daily					(202) 842-8920		pkirby@tr.com
Lemke	Mike	ITT Corporation							mike.lemke@itt.com
Luther	William	ASRC Management Services	12021 Sunset Hills Rd, Suite 330	Reston	VA	20190	(571)262-3144	(571)203-1346	william.luther@asrcms.com
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
Olson	Larry	FCC	445 12 <sup>th</sup> Street, SW	Washington	DC	20554	(202)418-2142	(202)418-6131	Larry.Olson@fcc.gov
Reed	David	Scitor Corp.		Rosslyn	VA		(703) 325-0102		<a href="mailto:David.Reed.ctr@pentagon.af.mil">David.Reed.ctr@pentagon.af.mil</a>
Roytblat	Alexander	FCC	445 12 <sup>th</sup> Street, SW	Washington	DC	20554	(202)418-7501	(202)418-0398	
Sung	Liching	NTIA	1401 Constitution Ave., NW	Washington	DC	20230	(202)482-3485	(202)501-8189	lsung@ntia.doc.gov
Ward	Stephen	MMI	11205 Lapham Drive	Oakton	VA	22124	(703)264-3906		Stephen.ward@mmiconnect.com
Williams	Jonathan	NTIA	1401 Constitution Ave., NW	Washington	DC	20230	(202)482-0675		jwilliams@ntia.doc.gov