

WRC-11 ADVISORY COMMITTEE

Meeting Minutes

Meeting: IWG-2 Terrestrial Services

Date/Time: February 17, 2009/1 – 3 pm

Location: FCC, 445 12th St. SW, Washington, DC 20554, South Conference room (2nd floor)

Committee Members Present: Kimberly Baum (Motorola), Chair; Jonathon Siverling (ARRL), Vice Chair; Brennan Price (ARRL), Steve Baruch (Lerman Senter); Giselle Creeser (Lockheed Martin); Brooks Cressman (ITT for DoD); Steven Doiron (Hughes); Kyle Fisher (Smith and Fisher); Rick Gould (Aerovironment); Rob Haines (NTIA); Kris Hutchison (ASRI); Don Jansky (Jansky-Barmat Telecomm.); Suzanne Malloy (ICO); Leslie Martinkovics (Verizon); Antonio Richardson (NTIA); Liching Sung (NTIA); David Weinreich (Globalstar); Jack Wengryniuk (DirecTV); David Case (Cisco); Mike S. Chartier (Intel); Joe Cramer (Boeing); Ed Jacobs (ASRC for NASA); Roy LaRosa (Stratocomm); Roger LeClair (LeClair Telecommunications); Eric Lee (ITT AES); Ron Mendolera (ITT); Nelson Pollack (ITT AES); Larry Reed (ASRC for NASA); Bill Rummler (FWCC Consultant); Axel Spies (Bingham); Stephen Ward (MMI); Jonathan Williams (NTIA); Franz Zichy (Dept. of State), Joanne Wilson (Compass Rose). See Annex 2 for a detailed list of IWG-2 members and attendance.

FCC Employees Present: Dante Ibarra, Michael Mullinix; Joe Hill; Larry Olson; Sankar Persaud; Alexander Roytblat; Allen Yang;

Meeting Summary:

Ms. Baum called the meeting to order at 1:15 p.m. Members and FCC Employees who were present at the meeting were asked to introduce themselves. Members on the conference bridge were then asked to identify themselves.

The Agenda for the meeting was approved without objection (See Annex 1). One editorial update to the sixth line was made changing 2th to 2nd.

Ms. Baum went through administrative matters. The meeting minutes from the January 28th meeting were approved (Document IWG-2_5 (10.02.09) Minutes of 012809 meeting.doc). It was noted that the list of documents (Document IWG-2_4 (16.02.09) Document List.doc) had been updated to reflect the current dates' submissions. Ms. Baum noted that the next meeting of the WAC is scheduled for March 31, 2009 and encouraged participants to complete as much

work as possible by the next IWG-2 meeting to allow time to approve work for submittal to the full WAC. There will definitely be one IWG-2 meeting and possibly two meetings before the WAC.

Ms. Baum asked for updates on the regional preparations. Brennan Price stated the RAG has received no proposals for hosting the next WRC. It was noted that WRC-11 is still scheduled for October 24th through November 18th but that those dates conflict with Ramadan and might be subject to change.

Ms. Baum then asked for review of the assigned agenda items and organization of work, excluding HAPS for the time being. Agenda Item 1.5 was being reviewed by Amy Sanders. Ms. Baum understands that Ms. Sanders (who was not present) agrees with the NTIA's PV. Ms. Baum will coordinate with Ms. Sanders offline to confirm this.

It was noted that the volunteers listed in the Table on the agenda are to prepare drafts (either new documents or proposed revisions) of the PV's, and are not intended to reflect all of the interested parties.

Agenda Item 1.8 is being reviewed by Rick Gould. Bill Rummeler will also review the PV and will consider agreeing with it. Mr. Gould was not in attendance when this Agenda Item was reviewed.

Agenda Item 1.16 has no volunteers and currently nothing to submit to the WAC.

Ms. Baum asked if NTIA had plans to release a PV for Agenda Item 1.17. Jonathan Williams volunteered to find out. Ms. Baum then asked him to find out the same of Agenda Item 1.23.

Agenda Item 1.19 currently has no draft to consider. Giselle Creeser volunteered to be placed in the group. Ms. Baum indicated that she is working on edits, and Ms. Creeser indicated she is as well. It is expected that a draft will be available well in advance of the next IWG-2 meeting.

Document IWG-2/9 addressing Agenda Item 1.22 was discussed. It was stated that this agenda item is not active in the international community. Giselle Creeser requested that the frequency bands referenced in the document be deleted, and it was agreed to do so. While this document was initially approved by IWG-2, Steve Baruch, later in the meeting, asked that it be tabled so he could further consider the US View section. Specifically, he inquired about the line concerning the studies and why it was deleted from IWG-2's PV. Mr. Baruch will release comments on this Agenda Item by next Tuesday, February 24, 2009. Approval for Agenda Item 1.22 will wait until the next meeting.

It was stated that a draft of the PV for Agenda Item 1.23 was in the works. Brennan Price will be consulting with other Amateur entities to formulate a PV.

IWG-2 schedule was addressed and it was determined the next meeting will take place on Tuesday March 10th at 2:00 p.m. most likely at the FCC. Tentatively, a meeting has been scheduled for Wednesday March 25th at 2 p.m. This will most likely take place at the FCC.

A recess was taken at 1:37 p.m.

The meeting was called to order again at 2:32 p.m. to discuss the issue with HAPS.

A recap of the schedule was given and it was learned that IWG-3 had no future meetings scheduled as of this date.

In regard to Agenda Item 1.20, Rick Gould had formulated Document 6 and Document 7, while Don Jansky had formulated Document 8. Concern was expressed over the title of these documents. It was determined that they shall be labeled "Input" Documents on the Document Tracker (Document IWG-2/4) in the future and that they must be tracked. It was agreed upon that Documents 7 & 8 are intended for internal use only to form the PV's but will not be submitted to the WAC. Authors will be clearly included in the Document headers prior to posting to the FCC website.

Giselle Creaser expressed concern that a section of Document 7 was specific to Lockheed Martin and that it did not necessarily reflect Lockheed Martin's view. Ms. Baum, Ms. Creaser, and Mr. Gould will work offline to correct Document 7 before posting to the FCC's website.

Rick Gould was given the floor to discuss Document 6 and Document 7. David Weinreich recommended that this Agenda Item be handled by IWG-3 and expressed concern on Mr. Gould's justifications. Mr. Baruch clarified the identification of HAPS spectrum should be within that already allocated to the fixed service. Mr. Gould had no objection.

Moving on to Document 8, Don Jansky reiterated the need for adding the authors name to each Document. Mr. Jansky expressed concern over reopening a view agreed upon with the NTIA. He reminded the group that documents containing European views don't relate to our interests and he was concerned over future development of our views.

The 3:00 ending time had run over, so the discussion was halted and a conference call scheduled to discuss HAPS further. This is scheduled for February 23rd, from 12:00 – 1:00 p.m.

The meeting was adjourned at 3:11 p.m.

Documents Distributed:

Document IWG-2_4 (16.02.09) Document List.doc
Document IWG-2_5 (10.02.09) Minutes of 012809 meeting.doc
Document IWG-2_6 (02.02.09) Proposed mods to 1_20 pv.doc
Document IWG-2_7 (02.02.09) Rationale for proposed mods to 1_20 pv.doc
Document IWG-2_8 (16.02.09) Satellite comments on mods to 1_20 pv.doc
Document IWG-2_9 (16.02.09) Proposed mods to 1_22 pv.doc
Document IWG-2_10 (16.02.09) agenda 021709.doc

Public Participation Statement: This meeting was open to the public and 22 members of the

public not representing the FCC or other federal agencies, attended.

Author: Kyle Fisher, Smith and Fisher, kyle@smithandfisher.com

Annex 1 – Agenda

**WRC Advisory Committee 2011
Informal Working Group-2**

Tuesday, February 17, 2009

1:00 p.m. – 3:00 p.m. (with agenda item 1.20 taken at 2:30-3:00 pm)

FCC, 445 12th St. SW, Washington, DC 20554

2nd floor South Conference Room

Dial in information: 866 624-3038, Participant code 5809270

Agenda

1. Introductions
2. Approval of Agenda
3. Administrative matters
 - a. Volunteer to take minutes
 - b. Approval of draft Minutes from January 28th meeting – *Document IWG-2_5 (10.02.09)*
 - c. List of documents – *Document IWG-2_4 (16.02.09)*
 - d. WAC schedule – next full WAC March 31, 2009
4. Update on Regional Preparations
 - a. CITEL
 - b. CEPT
 - c. APT
 - d. Others
5. Review of Assigned Agenda Items & Organization of work (Except HAPS)

AI	Issue	ITU Lea d WP	US PVs/NTIA PVs	IWG-2 Doc?	IWG-2 Volunteers?
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) ;	WP-5C	US PV (Doc. WAC/007), NTIA PV (Doc. WAC/005) (superseded)		Ms. Sanders

1.8	to consider the progress of ITU-R studies concerning the technical and regulatory issues relative to the fixed service in the bands between 71 GHz and 238 GHz, taking into account Resolutions 731 (WRC-2000) and 732 (WRC-2000)	WP-5C	US PV (Doc. WAC/007), NTIA PV (Doc. WAC/005) (superseded)		Mr. Gould
1.16	to consider the needs of passive systems for lightning detection in the meteorological aids service, including the possibility of an allocation in the frequency range below 20 kHz, and to take appropriate action, in accordance with Resolution 671 (WRC-07)	WP-7C			Unassigned
1.17	to consider 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 this frequency band is allocated, and take appropriate action	JTG 5-6			Ms. Sanders and Ms. Baum
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) ;	WP-1B	NTIA PV (Doc. WAC/005)		Mr. Case, Mr. Baruch, Mr. Chartier, Mr. Jansky and Ms. Baum
1.22	to examine the effect of emissions from short-range devices on radiocommunication services, in accordance with Resolution 953 (WRC-07) ;	WP-1A	NTIA PV (Doc. WAC/005)	Doc. 9	Ms. Baum, Mr. Case, Mr. Chartier and Ms. Creeser
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;	WP-5A			Mr. Price and Mr. Siverling
8.2	Preliminary agenda for the subsequent conference and on possible agenda items for future conferences				Unassigned

6. Schedule

7. Any other business?

8. Consideration of HAPS agenda item 1.20 (BEGINS at 2:30 PM)

AI	Issue	ITU Lea d WP	US PVs/NTIA PVs	IWG-2 Doc?	IWG-2 Volunteers?
1.20	to consider the results of ITU-R studies and spectrum identification for gateway links for high altitude platform stations (HAPS) in the range 5 850-7 075 MHz in order to support operations in the fixed and mobile services, in accordance with Resolution 734 (Rev.WRC-07)	WP-5C	US PV (Doc. WAC/007), NTIA PV (Doc. WAC/005) (superseded)	Doc. 6, 7, 8	Mr. Gould, Mr. Roger LeClair, Mr. Jansky and Mr. Weinreich. Ms. Sanders will solicit FWCC for input.

9. Adjournment

ANNEX 2 – List of participants

First Name	Last Name	e-mail	Affiliation	Attended 1/29/09?	Attended 2/17/09?	On IWG-2 email list?
Steve	Baruch	SBaruch@LermanSenter.com	Lerman Senter	Y (phone)	Y	Y
Kimberly	Baum	kimberly.baum@motorola.com	Motorola	Y	Y	Y
Giselle	Creaser	Giselle.Creaser@lmco.com	Lockheed Martin	Y (phone)	Y	Y
Brooks	Cressman	brooks.cressman@itt.com	ITT for DoD		Y	Y
Steven	Doiron	steven.doiron@hughes.com	Hughes		Y	?
Kyle	Fisher	kyle@smithandfisher.com	Smith & Fisher	Y	Y	Y
Rick	Gould	telecomsystems@verizon.net	Aerovironment	Y	Y	Y
Rob	Haines	rhaines@ntia.doc.gov	NTIA	Y	Y	Y
Joe	Hill	joseph.hill@fcc.gov	FCC		Y	?
Kris	Hutchison	keh@asri.aero	ASRI		Y	Y
Dante	Ibarra	dante.ibarra@fcc.gov	FCC	Y	Y	Y
Don	Jansky	don@jansky-barmat.com	Jansky-Barmat Telecomm.	Y (phone)	Y	Y
Suzanne	Malloy	suzanne.h.malloy@ico.com	ICO		Y	Y
Leslie	Martinkovics	leslie.j.martinkovics@verizon.com	Verizon		Y	?
Michael	Mullinix	michael.mullinix@fcc.gov	FCC	Y	Y	Y
Larry	Olson	larry.olson@fcc.gov	FCC	Y (phone)	Y	Y

Sankar	Persaud	sankar.persaud@fcc.gov	FCC		Y	?
Antonio	Richardson	arichardson@ntia.doc.gov	NTIA		Y	?
Alexander	Roytblat	alexander.roytblat@fcc.gov	FCC	Y	Y	Y
Jon	Siverling	siverling@mindspring.com	ARRL	Y	Y	Y
Liching	Sung		NTIA		Y	N
David	Weinreich	david.weinreich@globalstar.com	Globalstar	Y (phone)	Y	Y
Jack	Wengryniuk	jwengryniuk@directv.com	DIRECTV		Y	?
Alan	Yang	allen.yang@fcc.gov	FCC	Y	Y	Y
David	Case	davecase@cisco.com	Cisco	Y (phone)	Y (phone)	Y
Mike S.	Chartier	mike.s.chartier@intel.com	Intel	Y (phone)	Y (phone)	Y
Joe	Cramer	joseph.cramer@boeing.com	Boeing	Y (phone)	Y (phone)	Y
Ed	Jacobs	jacobse65@embargmail.com	ASRC for NASA	Y (phone)	Y (phone)	Y
Roy	LaRosa		Stratocomm		Y (phone)	Y
Roger	LeClair	roger@leclairtelecom.com	LeClair Telecommunications		Y (phone)	Y
Eric	Lee	Eric.Lee@jsc-eses.com	ITT AES	Y (phone)	Y (phone)	Y
Ron	Mendolera	Ronald.Mendolera@jsc-eses.com	ITT	Y (phone)	Y (phone)	Y
Nelson	Pollack	Nelson.Pollack@jsc-eses.com	ITT Aes	Y (phone)	Y (phone)	Y
Brennan	Price	bprice@arrl.org	ARRL	Y	Y	Y
Larry	Reed	larry.reed@asrcms.com			Y	Y

					(phone)	
Bill	Rummler	wrummler@verizon.net	FWCC/consultant		Y (phone)	Y
Axel	Spies	a.spies@bingham.com	Bingham	Y	Y (phone)	Y
Stephen	Ward	stephen.ward@mmiconnect.com	MMI	Y	Y (phone)	Y
Jonathan	Williams	jwilliams@ntia.doc.gov	NTIA	Y	Y (phone)	Y
Franz	Zichy		Dept of State		Y (phone)	N