

FINAL MINUTES

Minutes of the Eleventh Meeting of the World Radiocommunication Conference 2003 (WRC-03) FCC Advisory Committee

Date/Time: September 5, 2002 at 2:00 p.m.

Location: Federal Communications Commission
Commission Meeting Room (TW-C305)
445 12th Street, S.W., Washington, D.C.

Committee Members Present: See Appendix 1

FCC Employees Present: See Appendix 2

Meeting Summary:

1. Opening Remarks

The Chair, Mr. Fontes, opened the meeting by welcoming the attendees and hoped that the agenda could be gone through quickly and smoothly.

2. Approval of the Agenda

The agenda, Document **WAC/133(05.09.02)**, was approved without change.

3. Approval of the Minutes of the Ninth Meeting

The draft minutes of the tenth meeting of the WRC-03 Advisory Meeting (Document **WAC/132(22.07.02)**) were approved.

4. Status of Preliminary Views and Proposals

Mr. Roytlat introduced Document **WAC/056(05.09.02)** and said it summarized the progress of the preliminary views and draft proposals. Mr. Fontes requested that the document be reviewed and that Mr. Roytlat be given any corrections.

5. Reports from Regional WRC-2003 Preparatory Meetings

Mr. Roytlat reported that he attended the 4th APT CPG Meeting that was held in Busan, Korea last week. He was unable to prepare a written report in time for this meeting but would have the

report posted on the web site once it is completed. Mr. Lewellen remarked that he found the previous reports on regional meetings to be very helpful and looked forward to seeing the report.

6. NTIA Draft Preliminary Views and Proposals

Four letters from NTIA (Documents **WAC/135(05.09.02)**, **WAC/136(05.09.02)**, **WAC/137(05.09.02)**, and **WAC/138(05.09.02)**) forwarding NTIA approved draft proposals for WRC-03 Agenda Items 1.32 (Resolution 84) and 1.32 (Resolution 128); 1.16; 7.2 (Proposed WRC-06 Agenda Item 2.12); and 1.9, 1.10.1 and 7.2 (Proposed WRC-06 Agenda Item 3.1), respectively, were noted. Mr. Fontes reported that these had been circulated to the IWGs for their review and comments.

7. IWG Reports and Consideration of Preliminary Views or Draft Proposals

IWG-1 IMT-2000 and Terrestrial Wireless Interactive Multimedia

Mr. Wye, Vice-Chair of IWG-1, reported that IWG-1 had three draft proposals to present:

Agenda Item 1.21: Document **WAC/139(05.09.02)**, a draft proposal, was approved.

Agenda Item 1.22: Document **WAC/140(05.09.02)**, a draft proposal recommending “no change” (that tracked proposals by Brazil and Canada at CITELE) and a consequential proposed modification to Resolution 228 (based on a contribution by Brazil in the CITELE process):

Ms. Bethea, representing PanAmSat stated that “considering f” of the proposed modification to Resolution 228 was confusing and needed to be clarified. She recommended that the text state that IMT-2000 should be put in bands below 3 GHz or alternatively, that in the “considering” or “resolves” section, it should be stated that the FSS bands be excluded from IMT-2000. Since this impacts different groups, she thought that this may need to go back to IWG-1. Mr. Griffin of Mintz Levin who represents clients from the U.S. video distribution industry seconded Ms. Bethea’s comments and stated that the video industry makes heavy use of FSS for video distribution and has service agreements extending 20 years for the U.S. and the world. He stated that they are very concerned that the FSS bands not be part of the study. Ms. DiLapi, representing Motorola, pointed out that in relation to the identification of bands, portions of the 2500-2690 MHz band already have an FSS allocation. Mr. Jansky, speaking as the U.S. Chair of WP 4A, supported Ms. Bethea’s concerns and noted that when discussed in WP 4A, any

consideration of the bands above 3 GHz for IMT-2000 received a unanimously negative response. Ms. Baum, representing SES-Americom, stated that SES-Americom, as a significant FSS operator in the U.S., also shared Ms. Bethea's concerns; and she would like to see the proposal modified along the lines described by Ms. Bethea. Ms. Cohen, representing Nokia, recommended that the first portion of Ms. Bethea's recommendation not be taken as it may very well be that they will want to look above 3 GHz in light of considerations to use the spectrum more efficiently. Mr. Mitani, representing INTELSAT, said that the problem with the proposed modified resolution was that it was unbounded. He emphasized that if the proposal was to go forward from the U.S., it should be very clear in what was intended with respect to the spectrum that we would want to use in the future. Mr. Sharkey, representing Motorola, remarked that it was very early to put bounds on the bands to be considered since that was the purpose of the study. He pointed out that Motorola had put a document into the FCC's Spectrum Task Force stating that bands below 6 MHz were appropriate to leave open, to some extent, for study.

In light of these comments, Mr. Fontes, requested that the part of the proposal for modification to Resolution 228 be sent back to IWG-1 for further discussion in consultation with the other working groups. Since there were no objections to the proposal concerning "no change" to the ITU Radio Regulations under Agenda Item 1.22, this part of the proposal was approved to go forward.

Agenda Item 1.33: Document **WAC/141(05.09.02)**, a draft proposal, was approved.

IWG-2 Mobile-Satellite Service including GPS

Mr. Baruch, Chair of IWG-2, reported that his group had no meetings since the last meeting of the advisory committee and had no further meetings scheduled. He stated that his group's draft proposal for WRC-03 Agenda Item 1.16 that was approved at the last meeting of the advisory committee was radically different from the proposal from NTIA and that IWG-2 decided, after reviewing the NTIA proposal, that the advisory committee's version should be used.

IWG-3 Fixed-Satellite Service/Broadcasting-Satellite Service

Ms. Creeser, Vice-Chair of IWG-3, reported that her group had two draft proposals to present at today's meeting:

Agenda Item 1.27: Document **WAC/142(05.09.02)**, a draft proposal, was approved.

Agenda Item 1.29: Document **WAC/143(05.09.02)**, a draft proposal, was approved.

IWG-4 Fixed Service/Fixed-Satellite Service Sharing

Mr. Jacobs, FCC Coordinator for IWG-4, reported that IWG-4 had one agenda item left, namely WRC-03 Agenda Items 1.13. The group developed a proposal for this agenda item that he was presenting since the Chair and Vice-Chair of IWG-4 were unable to be present:

Agenda Item 1.13: Document **WAC/144(05.09.02)**, a draft proposal on High Altitude Platform Stations (HAPS):

Mr. Jacobs said that the group had reached consensus on all issues except resolves 2 of the proposed new resolution on HAPS. Until ITU-R studies are completed, the group had agreed to allow HAPS into 300 MHz of the 27 and 31 GHz bands on a non-interference, non-protected basis pursuant to No. 4.4 of the Radio Regulations. He added that the HAPS proponents had objected to the reference to No. 4.4 because they felt this would hinder their efforts to sell the HAPS service. He indicated that their preference was presented in the Annex to the proposal as a minority view.

Mr. Jacobs noted that this was as far as IWG-4 could take this and reported that the Chair of IWG-4 felt that it would be unproductive to pursue this further in IWG-4. Therefore, he offered the proposal to the advisory committee together with the minority view for resolution by this committee or the FCC. Mr. Lewellen, speaking on behalf of SkyStation, supported the minority view.

The draft proposal was approved to go forward to the FCC together with the attached minority statement.

Mr. Baruch noted that IWG-4 reviewed the NTIA proposals for WRC-03 Agenda Item 1.32 and had a number of concerns. IWG-4 therefore continued to support the IWG-4 proposals for this agenda item.

IWG-5 5 GHz, 13.75-14 GHz and Maritime Issues

Mr. Jansky, Chair of IWG-5, reported that NTIA draft proposals for WRC-03 Agenda Items 1.9 and 1.10.2 attached to the NTIA letter in Document

WAC/138(05.09.02) fall within the purview of IWG-5. He noted that in line with the preliminary views of IWG-5 on these items, IWG-5 would support those items of primary concern to the U.S. Government.

IWG-6 Public Protection and Other Issues

Ms. Buchanan, FCC Coordinator for IWG-6, reported that IWG-6 had completed its work and had no comments on the proposals from NTIA.

IWG-7 Regulatory Issues and Future Agendas

Ms. Allison, Chair of IWG-7, reported that IWG-7 met once since the last meeting of the advisory committee and had eight draft proposals to present:

Agenda Item 1.30:

- Document **WAC/145(05.09.02)**, a draft proposal for the coordination of typical earth stations and typical fixed stations was approved. Mr. Rappoport, Winstar, noted that the agenda for this meeting referred to the document as “ coordination of a typical earth station.” He said that it should be correctly stated as, “coordination of typical earth stations and typical fixed stations.” Mr. Rappoport’s remarks were noted.
- Document **WAC/146(05.09.02)**, draft proposal for the coordination of NGSO BSS (Sound) networks in the 2.6 GHz band:

Ms. DiLapi, pointed out that the PFD threshold values added to the table at the end of the proposals had not yet received consensus.

Ms. Creeser said that Ms. DiLapi was correct in that there was still no agreement between the terrestrial and satellite interests on these values and that the proposal was meant to be more regulatory than technical. It was agreed that bracketing these values would be appropriate to alleviate Ms. DiLapi’s concerns.

The document was approved with the PFD values bracketed to show that they are not final.

Agenda Item 7.2:

- Document **WAC/131(22.07.02)**, a draft proposal to add an agenda item for HAPS at 2 GHz was approved.
- Document **WAC/147(05.09.02)**, a modification to an NTIA draft proposal on item 2.12 regarding the consideration of spectrum requirements for wideband telemetry in the band between 3 and 30 GHz was approved.
- Document **WAC/148(05.09.02)**, a draft proposal to delete item 2.15 regarding the identification of spectrum for terrestrial wireless

- interactive multimedia applications was approved.
- Document **WAC/149(05.09.02)**, a draft proposal to delete item 3.1 on sharing in the band 2700-2900 MHz was approved.
 - Document **WAC/151(05.09.02)**, a draft proposal to expand a proposal from NTIA concerning item 2.3 addressing frequency bands above 275 GHz was approved with edits.

Agenda Item 4: Document **WAC/150(05.09.02)**, draft proposal for Resolution 719 was approved.

Ms. Allison reported that the next meeting of IWG-7 would be on October 2, 2002, 1:30-3:30 p.m. at Boeing and chaired by Kim Baum.

7. Future Meetings

Mr. Roytblat introduced an updated timeline, Document **WAC/006(05.09.02)**. He particularly wished everyone to note the upcoming CEPT and CPM meetings.

Mr. Fontes announced that the next meeting of the WRC-03 Advisory Committee would be held on October 31, 2002, 2:30-4:30 p.m. in the Commission Meeting Room at the FCC.

8. Other Business

Ms. Allison noted that there were some issues that surfaced in preparations for the Plenipotentiary Conference that were of interest to IWG-7 because they dealt with future World Radiocommunication Conferences (WRCs). She reported that in preparatory meetings addressing the ITU's financial crisis, there was some consideration being given to streamlining WRC agendas, putting more teeth in the financial provisions of the ITU Constitution and Convention, and changing the interval between WRCs from 2-3 years to 6-8 years. Since Mr. Beard of the Department of State was seeking industry views, Ms. Allison encouraged those interested to make their views known. Mr. Fontes thanked Ms. Allison for bringing this to the attention of the committee.

With no further business, the meeting adjourned at 2:53 p.m.

Documents Distributed:

WAC/006	Updated WRC-03 Preparatory Timeline (05.09.02)
WAC/056	Updated Status of Preliminary Views and Proposals (05.09.02)
WAC/131	Draft Proposal from IWG-7 for WRC-03 Agenda Item 7.2 (HAPS at 2 GHz)
WAC/132	Draft Minutes of the 10 th WRC-03 Advisory Committee Meeting
WAC/133	Proposed Agenda for 11 th WAC-03 Advisory Committee Meeting
* WAC/134	Report on the 4th APT CPG Meeting (posted on the Internet after the meeting)
WAC/135	NTIA letter (7/24/02) with Draft Proposals for WRC-03 Agenda Item 1.32
WAC/136	NTIA letter (7/30/02) with Draft Proposal for WRC-03 Agenda Items 1.16
WAC/137	NTIA letter (8/6/02) with Draft Proposal for WRC-03 Agenda Item 7.2 (2.12)
WAC/138	NTIA letter (8/14/02) with Draft Proposals for WRC-03 Agenda Items 1.9, 1.10.1, and 7.2 (3.1)
WAC/139	Draft Proposal from IWG-1 for WRC-03 Agenda Item 1.21
WAC/140	Draft Proposal from IWG-1 for WRC-03 Agenda Item 1.22
WAC/141	Draft Proposal from IWG-1 for WRC-03 Agenda Item 1.33
WAC/142	Draft Proposal from IWG-3 for WRC-03 Agenda Item 1.27
WAC/143	Draft Proposal from IWG-3 for WRC-03 Agenda Item 1.29
WAC/144	Draft Proposal from IWG-4 for WRC-03 Agenda Item 1.13
WAC/145	Draft Proposal from IWG-7 for WRC-03 Agenda Item 1.30e
WAC/146	Draft Proposal from IWG-7 for WRC-03 Agenda Item 1.30f
WAC/147	Draft Proposal from IWG-7 for WRC-03 Agenda Item 7.2 (2.12)
WAC/148	Draft Proposal from IWG-7 for WRC-03 Agenda Item 7.2 (2.15)
WAC/149	Draft Proposal from IWG-7 for WRC-03 Agenda Item 7.2 (3.1)
WAC/150	Draft Proposal from IWG-7 for WRC-03 Agenda Item 4
WAC/151	Draft Proposal from IWG-7 for WRC-03 Agenda Item 7.2 (2.3)

* Available after the meeting

MINUTES
Appendix 1
WRC-03 Advisory Committee Attendance
Eleventh Meeting – September 5, 2002

Last Name	First Name	Occupation Or Affiliation
Allison	Audrey	Connexion by BoeingSM
Barmat	Melvin	Jansky/Barmat Telecom
Baruch	Steve	Leventhal, Senter
Baum	Kimberly	SES Americom
Bernstein	Jeff	TMG
Bethea	Donna	PanAmSat
Bosworth	Jen	Compass Rose International
Carroll	James	Consultant - DoD
Cohen	Cecily	Nokia, Inc.
Cornell	Diane	CTIA
Creaser	Giselle	Telecomm Strategies
Crenshaw	Ralph	Final Analysis
DiLapi	Christine	Motorola
Doiron	Steven	INTELSAT
Fontes	Brian	Cingular Wireless
Gould	Richard G.	Telecom Systems
Greczyn	Mary	Comm Daily
Griffin	Benjamin	Mintz Levin
Hofer	Chris	Hughes Network Systems
Hutchings	Suzanne	Teledesic/New ICO
Jansky	Don	Jansky/Barmat.com
Keane	Ken	Arter & Hadden for AFTRCC
Keller	Thomas	Association of American Railroads
Kenogy	Randy	Aircraft Owners and Pilots Association
Latker	Alex	Philip A. Rubin Assoc.
Lewellen	Mark	SFA for U.S. Army & Sky Station
Mahoney	Patricia	Final Analysis
Mechanik	Maury	White & Case LLP
Mitani	Brian	INTELSAT
Mitchell	Michael W.	Consultant, Space Technology
Munson	Dave	Morrison & Foerster for Space Data Corp.
Rappoport	Eugene	Winstar
Rinaldo	Paul	ARRL
Sahay	Vishnu	SkyTower
Sharkey	Steve	Motorola
Taylor	Leslie A.	Leslie Taylor Associates, Inc.
Walters	Charles	RF Development LLC
Ward	Stephen	Vredenburg
Warren	Jennifer	Lockheed Martin
Weaver	Frank C.	Boeing
Weaver	Heather F.	RCR Wireless News
Wilson	Joanne	Array Comm.

Last Name	First Name	Occupation Or Affiliation
Wye	David	AT&T Wireless
Zoller	Julie	ITT Industries

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Appendix 2
WRC-03 Advisory Committee – FCC Representatives
Eleventh Meeting – September 5, 2002

Last Name	First Name
Abelson	Don
Armstrong	Linda
Bisese	Anne
Buchanan	Julie
Dubroof	Linda
Giusti	John
Jacobs	Ed
Kotler	Scott
Medley	Kathryn
Netro	Ron
Reed	Larry
Roytblat	Alex
Weiland	Donald