

WRC-2003 ADVISORY COMMITTEE

Minutes of Second IWG-3

Meeting: IWG-3

Date/Time: 11 April 2001 from 1:00 PM to 4:10 PM

Location: FCC Conference Room 6-B516

Committee Members Present: See **Annex 1**

FCC Employees Present: Diane Garfield, Alex Roytblat, Marcus Wolf, and Allen Yang

Meeting Summary:

The main purpose of this second meeting of IWG-3 was to review and, where possible, to approve, the draft preliminary views on the WRC-2003 agenda items assigned to IWG-3. The meeting agenda, including a tabular listing of the documents to be considered, is given in **Annex 2**. The texts of the WRC-2003 agenda items and of the titles of the relevant WRC-2003 Resolutions are included in the terms of reference of IWG-3 as shown in **Annex 3**.

After introductions of those present and remarks from the chair, including an explanation of the sign-in procedure, the minutes of the first meeting of IWG-3 were approved (with minor corrections to the list of attendees) from the version previously posted on the IWG-3 web page and also distributed at the meeting.

Under agenda item 4, each of the ten documents listed in **Annex 2** was introduced in turn by the person indicated as the point of contact with the following exceptions: Doc #003 was introduced by Kim Baum, Doc #004 by Audrey Allison, and Docs #006 and 007 by Chris Hofer. After brief discussion, most of the documents were approved with only minor additions or deletions. For documents where compromise text could not be fully agreed after ten or fifteen minutes of discussion, the interested participants agreed to work out their differences by correspondence. In all cases, the revised documents were to be distributed to the IWG-3 e-mail list by noon Tuesday, 17 April, so that they would be available for final approval at the WAC meeting on Friday, April 20, 2001.

Documents distributed: Meeting agenda (including list of documents), minutes of previous meeting, and copies of documents to be discussed (IWG-3/003 -012)

Public Participation Statement: The IWG-3 meeting was open to the public and was attended by 16 members from the public sector as listed in Annex 1.

Author: Edward Reinhart

ANNEX 1 – IWG-3 COMMITTEE MEMBERS PRESENT

Last Name	First Name	Affiliation
Allison	Audrey	Connexion by BoeingSM
Barmat	Melvin	Jansky/Barmat Telecom
Barnett	Richard	Telecomm Strategies
Baruch	Steve	Leventhal, Senter & Lerman
Baum	Kimberly	ASTROLINK International LLC
Byrd	James	Hughes
Carroll	James	Consultant, DoD
Garfield	Diane	FCC/IB
Hayden	Tom	Teledesic
Hofer	Chris	PanAmSat
Jansky	Don	Jansky/Barmat Telecom
Latker	Alex	PanAmSat
Mitchell	Michael	NTIA
Ng	Harry	PanAmSat
Rappoport	Eugene	Loral
Reinhart	Edward	Consultant, DIRECTV
Richards	Warren	ITT Industries
Roytblat	Alex	FCC/IB
Wolf	Marcus	FCC/IB
Yang	Allen	FCC

ANNEX 2 – MEETING AGENDA AND OTHER RELEVANT INFORMATION

11 April 2001 1:00pm to 4:00pm

**Informal Working Group 3:
Fixed-Satellite Service/Broadcasting Satellite Service**

IWG-3 Meeting #2

Agenda

1. Introductions and initial remarks
2. Sign-in Procedure
3. Approval of IWG-3 Minutes from previous meeting
4. Discussion of IWG-3 Preliminary Views
5. Any other business

Preliminary View Documents

IWG-3 Doc #	Agenda Item #	Issue	CPM Chapter	ITU-R SG Lead	IWG-3 Point of Contact
003	1.8	Unwanted Emissions (FSS and BSS portion)	6.1	TG1-7	Brian Ramsay
004	1.11	14-14.5 GHz AMSS	4.1	8D	Mel Barmat
005	1.19	NGSO FSS: Regulatory misapplication of epfd	3.1	4A	Kim Baum
006	1.27	BSS: AP S30 and S30A	3.2	6S	Giselle Creeser
007	1.29	NGSO/GSO sharing (Res 78)	3.3	4A	Ted Kaplan
008	1.29	NGSO/GSO sharing (Res 136)	3.3	4A	Steve Baruch
009	1.34	NGSO BSS sound in 2630-2655 MHz	3.5	6S	Don Jansky
010	1.35	Remarks of S30 and S30A, Res.53	3.6	BR	Ed Reinhart
011	1.37	Highly elliptical orbit satellite networks	3.7	4A	Steve Baruch
012	1.39	TT&C below 17GHz for systems with service links above 17GHz	3.8	4A	Chris Hofer

Upcoming meetings for IWG-3

Meeting #3: May 16, 2001, 9:30 am - 12 noon, FCC, 445 12th Street SW, 6th Floor – Room 6-B516

Meeting #4: June 21, 2001, 9:30 am - 12 noon, FCC, 445 12th Street SW

ANNEX 3 – IWG-3 TERMS OF REFERENCE
(Doc. IWG-3/001 as modified and adopted by IWG-3 during meeting #1)

WRC-03 ADVISORY COMMITTEE
INFORMAL WORKING GROUP-3 (IWG-3)

Terms Of Reference for IWG-3 (Fixed-Satellite and Broadcasting-Satellite Service Issues)

Using the Amended Charter for the WRC-03 Advisory Committee as a basic document, the Terms of Reference of IWG-3 are to draft and justify, for consideration by the Committee as a whole, recommendations for U.S. preliminary views and U.S. proposals related to the Fixed-Satellite Service, Broadcasting-Satellite Service and Mobile-Satellite Service, in particular the following WRC-03 agenda items:

1.8 to consider issues related to unwanted emissions:

1.8.1 consideration of the results of studies regarding the boundary between spurious and out-of-band emissions, with a view to including the boundary in Appendix **S3**;

1.8.2 consideration of the results of studies, and proposal of any regulatory measures regarding the protection of passive services from unwanted emissions, in particular from space service transmissions, in response to *recommends* 5 and 6 of Recommendation **66 (Rev.WRC-2000)**;

NOTE: IWG-3 will only consider those aspects of WRC-03 Agenda Items 1.8.1 and 1.8.2 that apply to the FSS and BSS. (The MSS portion is being considered in IWG-2.)

1.11 to consider possible extension of the allocation to the mobile-satellite service (Earth-to-space) on a secondary basis in the band 14-14.5 GHz to permit operation of the aeronautical mobile-satellite service as stipulated in Resolution **216 (Rev.WRC-2000)**.

1.19 to consider regulatory provisions to avoid misapplication of the non-GSO FSS single-entry limits in Article **S22** based on the results of ITU-R studies carried out in accordance with Resolution **135 (WRC-2000)**.

1.27 to review, in accordance with Resolutions **540 (WRC-2000)** and **735 (WRC-2000)**, the ITU-R studies requested in those resolutions, and modify, as appropriate, the relevant regulatory procedures and associated sharing criteria contained in Appendices **S30** and **S30A** and in the associated provisions;

1.29 to consider the results of studies related to Resolutions **136 (WRC-2000)** and **78 (WRC-2000)** dealing with sharing between non-GSO and GSO systems;

1.34 to review the results of studies in response to Resolution **539 (WRC-2000)** concerning threshold values for non-GSO BSS (sound) in the band 2 630-2 655 MHz, and to take actions as required;

1.35 to consider the report of the Director of the Radiocommunication Bureau on the results of the analysis in accordance with Resolution **53 (Rev.WRC-2000)** and take appropriate action;

1.37 (8.2) to consider the regulatory and technical provisions for satellite networks using highly elliptical orbits;

1.39 (8.4) to examine the spectrum requirements in the fixed-satellite service bands below 17 GHz for telemetry, tracking and telecommand of fixed-satellite service networks operating with service links in the frequency bands above 17 GHz;

Applicable Recommendations and Resolutions

Recommendation 66 (Rev.WRC-2000): Studies of the maximum permitted levels of unwanted emissions

Resolution **216 (Rev.WRC-2000)**: Possible Broadening of the Secondary Allocation of the MSS (Earth-to-space) in the Band 14 – 14.5 GHz to Cover Aeronautical Applications

Resolution **135 (WRC-2000)**: Criteria and Process for the Resolution of Possible Cases of Misapplication of NGSO FSS Single-Entry Limits in Article S22.

Resolution **540 (WRC-2000)**: Application and Study for the Regulatory Procedures and Associated Sharing Criteria Contained in Appendices S30 and S30A and in the Associated Provisions of Articles S9 and S11.

Resolution **735 (WRC-2000)**: Sharing Procedures and Criteria between Receiving Earth Stations in the BSS and transmitted Earth Stations or Terrestrial Stations in Frequency bands Allocated to the BSS and FSS (Earth-to-space) or to Terrestrial Services.

Resolution **136 (WRC-2000)**: Frequency Sharing in the Range 37.5 – 50.2 GHz Between GSO FSS Networks and NGSO FSS Systems.

Resolution **78 (WRC-2000)**: Development of Procedures in Case the Operational or Additional Operational Limits in Article S22 are Exceeded.

Resolution **539 (WRC-2000)**: Use of the Band 2630 – 2655 MHz in Certain Region 3 countries by NGSO Satellite Systems in the BSS(S).

Resolution **53 (Rev.WRC-2000)**: Updating of the “Remarks” Columns in the Tables of Article 9A of Appendix S30A and Article 11 of Appendix S30 to the Radio Regulations.