

WRC03 ADVISORY COMMITTEE

Minutes of First IWG-3 Meeting

Meeting: IWG-3

Date/Time: 1 March 2001 at 10:00 AM

Location: FCC Conference Room 6-B516

Committee Members Present: See **Annex 1**

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

Meeting Summary:

This was the first meeting of IWG-3 and was primarily organizational. After introductions and remarks the draft Terms of Reference prepared by the Chair and Vice Chair were distributed. These were approved with minor modifications/clarifications. The document will be revised and posted on the FCC web site. The group then reviewed the overall Advisory Committee and the IWG schedule. It was noted that preliminary views from the group should be complete for review at the 11 April IWG-3 meeting so that they may be considered at the WAC meeting scheduled for 20 April.

There was a brief discussion of the topics under IWG-3 and a volunteer was selected to be the point of contact for developing preliminary views for each of the topics. Once a draft of the preliminary views is drafted, taking into account inputs from all interested IWG-3 members, the document should be distributed to all IWG-3 members as soon as possible but not later than close of business on 9 April 2001, and will be reviewed and discussed at the next IWG-3 meeting.

The following table provides the IWG-3 topic and the point of contact on the development of preliminary views.

| Agenda # | Issue | Point of Contact |
|----------|---|---|
| 1.8 | Unwanted Emissions (FSS and BSS portion) | Brian Ramsay |
| 1.11 | 14-14.5 GHz AMSS | Mel Barmat |
| 1.19 | NGSO FSS: Regulatory misapplication of epfd | Kim Baum |
| 1.27 | BSS: AP S30 and S30A | Giselle Creeser |
| 1.29 | NGSO/GSO sharing (Res 78 & Res 136) | Ted Kaplan (Res 78) Steve Baruch (Res 136) |
| 1.34 | NGSO BSS sound in 2630-2655 MHz | Don Jansky |
| 1.35 | Remarks of S30 and S30A, Res.53 | Ed Reinhart |
| 1.37 | Highly elliptical orbit satellite networks | Steve Baruch |
| 1.39 | TT&C below 17GHz for systems with service links above 17GHz | Chris Hofer |

Documents Distributed: Meeting Agenda (see **Annex 2**), Draft Terms of Reference (see **Annex 3**), Time line for WRC-03 and WAC document WAC/008(30.01.01). For information the Preliminary Views documents prepared by the RCS on the above WRC-03 agenda items were also distributed.

Public Participation Statement: The IWG-3 meeting was open to the public and 21 members from the public attended.

Author: Giselle Creeser

ANNEX 1 – IWG-3 Committee Members Present

| Last Name | First Name | Affiliation |
|------------------|-------------------|---|
| Achtner | Edward | FCC filings.com |
| Allison | Audrey | Connexion by BoeingSM |
| Barmat | Melvin | Jansky/Barmat Telecom |
| Baruch | Steve | Leventhal, Senter/TRW |
| Baum | Kimberly | ASTROLINK International LLC |
| Byrd | James | Hughes |
| Creeser | Giselle | Telecomm Strategies |
| Dyster | John | Spectrum Astro |
| Fleming | Sean | Law Offices of Pamela Meredith/Spectrum Astro |
| Garfield | Diane | FCC |
| Hau | Ho | TRW |
| Hayden | Tom | Teledesic |
| Hofer | Chris | PanAmSat |
| Jansky | Don | Jansky/Barmat Telecom |
| Latker | Alex | PanAmSat |
| McElroy | Neil | PanAmSat |
| Mitchell | Michael | NTIA |
| Phan | Vu | Boeing Satellite |
| Ramsay | Brian | Lockheed Martin Corp. |
| Richards | Warren | ITT Industries |
| Rinker | Alan | Boeing |
| Roytblat | Alex | FCC/IB |
| Rubin | Philip A. | PanAmSat |
| Yang | Allen | FCC |

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

IWG-3 Meeting #1

Agenda

1. Introductions and initial remarks
2. Review/approval of IWG-3 Terms of Reference
3. Review of standard preliminary views/proposal form
4. Review of overall WAC Timeline
5. Review of timeline for IWG-3
6. Discussion of main topics under IWG-3
 - a. Identification of issues for which preliminary views can be drafted by 4/11
 - b. Identification of responsible person for each issue
7. Any other business

Chair: Tom Hayden 425-602-6564

Vice-chair: Giselle Creeser 703-790-1938

FCC Coordinators: Alex Roytblat 202-418-7501 and Diane Garfield 202-418-7499

| Agenda # | Issue | CPM chapter | ITU-R SG Lead |
|----------|---|-------------|---------------|
| 1.8 | Unwanted Emissions (FSS and BSS portion) | 6.1 | TG1-7 |
| 1.11 | 14-14.5 GHz AMSS | 4.1 | 8D |
| 1.19 | NGSO FSS: Regulatory misapplication of epfd | 3.1 | 4A |
| 1.27 | BSS: AP S30 and S30A | 3.2 | 6S |
| 1.29 | NGSO/GSO sharing (Res 78 & Res 136) | 3.3 | 4A |
| 1.34 | NGSO BSS sound in 2630-2655 MHz | 3.5 | 6S |
| 1.35 | Remarks of S30 and S30A, Res.53 | 3.6 | BR |
| 1.37 | Highly elliptical orbit satellite networks | 3.7 | 4A |
| 1.39 | TT&C below 17GHz for systems with service links above 17GHz | 3.8 | 4A |

Upcoming meetings for IWG-3

Meeting #2: Apr. 11, 2001 1:00 pm - 4:00 pm

Meeting #3: May 16, 2001 9:30 am - 12 noon

Location: 445 12th Street, S.W., Room 6-B516 (6th Floor South Conference Room) Federal Communications Commission, Washington, D.C.

**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.