

**WRC-2003 Advisory Committee**

**IWG-3**

**Fixed-Satellite and Broadcasting-Satellite Service Issues**

**Meeting Minutes**

**Meeting:** Third Meeting of IWG-3

**Date/Time:** 16 May 2001 at 9:30 AM

**Location:** Federal Communications Commission, Room 6-B516

**Committee Officers Present:** T. Hayden, Chairperson  
G. Creeser, Vice Chairperson

**Committee Members Present:** See **Annex 1**

**FCC Employees Present:** A. Roytblat  
D. Garfield (by telephone)

**Agenda:** The agenda (See **Annex 2**) was approved after adjusting the order of the preliminary views to be considered.

**Minutes from the April 11 Meeting:** The minutes from the previous meeting that appear in IWG-3/013 were approved as presented.

**Discussion of Preliminary View for AI 1.34:** D. Jansky introduced a revised document IWG-3/009(16.05.01) which contained proposed preliminary views for WRC-03 agenda item 1.34 (see **Annex 3**). Both MCI Worldcom and Motorola suggested modifications that will be incorporated outside the meeting. Both MCI Worldcom and WCA requested additional time to review the document. Comments from this review are to be provided to Mr. Jansky by Noon on Friday 18 May. An edited version is to be circulated to the members of IWG-3 on the evening of the 18<sup>th</sup>. Final comments are due by noon on 22 May. The document will then be submitted to the WAC for consideration at its meeting on 24 May.

**Report on the April 20 WAC meeting:** The Chairman gave a brief summary report.

**Liaison IWG-7/012:** This liaison statement concerns modifications to S5.491. IWG-3 reviewed the document and felt it required no action by IWG-3. The IWG-3 Chairman will convey this result to IWG-7.

**Review of the third set of RCS Preliminary Views:** IWG-3 reviewed the RCS PVs for each WRC-2003 agenda item assigned. *Note that for each AI assigned to IWG-3, the corresponding WAC PV*

*represents the current IWG-3 view (with the exception of the PV on AI 1.34 for which IWG-3 will propose a replacement at the 24 May WAC meeting).*

- a. Agenda items 1.8.1, 1.19, 1.29(Res. 136), 1.35, 1.37: IWG-3 reviewed the RCS preliminary views associated with these agenda items and believes FCC, NTIA and State Dept., can successfully resolve the minor differences in text with respect to the corresponding WAC PVs to arrive at an acceptable common U.S. View.
- b. Agenda item 1.8.2: The RCS current preliminary view on this agenda item is not officially available. Therefore IWG-3 can offer no comment at this time. However, IWG-3 reserves the right to comment on this RCS preliminary view when it becomes available.
- c. Agenda item 1.11: IWG-3 assumes the RCS concurs with the WAC preliminary view on this agenda item as the RCS has not issued its own.
- d. Agenda item 1.27: IWG-3 prefers the WAC preliminary view on this agenda item as it more thoroughly addresses the associated issues.
- e. Agenda item 1.29(Res. 78): IWG-3 noted the differences between the preliminary views adopted by the WAC and RCS. IWG-3 expects the process of open, informal discussions between the interested parties will produce an acceptable resolution of the differences.
- f. Agenda item 1.34: A new IWG-3 proposed preliminary view was addressed earlier in the meeting. (See “**Discussion of Preliminary View for AI 1.34**” above). After incorporation of minor comments this PV will be submitted for approval by IWG-3 via correspondence by 18 May and if no objections are received by Noon on 22 May, it will be proposed as a replacement to the existing WAC approved PV on AI 1.34 at the 24 May WAC meeting.
- g. Agenda item 1.39: Jack Wengryniuk agreed to prepare and circulate a formal document which reiterates IWG-3 support for the preliminary view it previously developed and which was subsequently approved by the WAC.

**Future Meetings:** The next meeting is rescheduled for June 21, 2001, 9:30 AM – 12:00 Noon, at the FCC. A second future meeting is scheduled at the FCC for August 8, 2001, 9:30 AM – 12:00 Noon.

**Other Business:** There being no other business the meeting was adjourned at 11:30 AM.

**Documents Distributed:** Meeting agenda, including a list of documents, minutes of the previous meeting (IWG-3/013), IWG-2/009(16.05.01) and IWG-7/012.

**Public Participation Statement:** The IWG-3 meeting was open to the public and was attended by 22 members from the public sector as listed in ANNEX 1.

**Author:** Warren Richards

## ANNEX 1 – IWG-3 MEMBERS PRESENT

<b>Last Name</b>	<b>First Name</b>	<b>Affiliation</b>
Anderson	Paul	DIRECTV
Barnat	Melvin	Jansky/Barnat Telecom
Barnett	Richard	Telecomm Strategies
Byrd	James	Hughes
Davis	Rikke	
Garfield	Diane	FCC/IB
Creaser	Giselle	Telecomm Strategies
Haines	Rob	NTIA
Harrison	Lillie	WCOM
Hayden	Tom	Teledesic
Hofer	Chris	PanAmSat
Keir	David	Leventhal, Senter & Lerman
Kubik	Rob	Motorola
Jansky	Don	Jansky/Barnat Telecom
Mitchell	Michael	NTIA
Nagle	Paul	WBK Law
Ng	Harry	PanAmSat
Palmer	Larry	PalmTelCom, Inc
Rappoport	Eugene	Loral
Richards	Warren	ITT Industries
Roytblat	Alex	FCC/IB
Warren	Jennifer	LMCO
Wengryniuk	Jack	ASTROLINK International LLC
Zoller	Julie	ITT Industries

ANNEX 2

16 May 2001 9:30am to 12:00pm

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

IWG-3 Meeting #3

**Agenda**

1. Introductions and initial remarks
2. Volunteer to take minutes
3. Sign-in procedure
4. Approval of IWG-3 Minutes from previous meeting (e-mailed out on 18 April)
5. Discussion of comments on PV for AI 1.34 (Don Jansky, WCA, WorldCom and Motorola)
6. Report on last WAC meeting
7. Consideration of Liaison IWG-7/012 (e-mailed out on 18 April)
8. Discussion of third set of RCS PVs (see NTIA Doc 1345 on FCC website)
9. Discussion of comments on PV for AI 1.8 (ATA)
10. Discussion of comments on PV for AI 1.11 (ATA and Boeing)
11. Any other business

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

**Upcoming meeting for IWG-3**

Meeting #4: June 27, 2001 9:30 am - 12 noon, FCC Room 6-B516 (6th Floor South Conference Room)

**Informal Working Group 3 (IWG-3)**

**Preparation for WRC-03**

**DRAFT PRELIMINARY VIEW**

**Agenda Item 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 2630-2655 MHz and to take action as required.

**Issue**

Should the provisional PFD thresholds for non-GSO BSS (sound) networks in Resolution 539 be made permanent or modified?

**Background**

This agenda item is prompted by the provisions of footnote; S5.418 adopted at WARC-92 and modified at WRC-2000, and actions taken at WRC-2000 that identified the band 2500-2690 MHz as an additional band for IMT-2000 systems. The referenced footnote provides for BSS (sound) systems in the band 2630-2655 MHz in the countries listed in the footnote\*, which are in Region 3, and exempts such type of systems from the PFD limits indicated in Table S21-4 of the Radio Regulations for BSS and FSS networks. Res. 539 gives provisional threshold levels for Non-GSO BSS systems in this band. However, invites 2 of the associated Resolution 539 refers to the band 2535-2655 MHz, which implies other services and other parts of the band might be impacted.

The lead group for development of CPM text is WP 6S (BSS). A very interested contributing group is WP 8F (IMT-2000). WP 6S has established Special Rapporteur Group (SRG) 6S/11 to prepare a report on the technical sharing issue, i.e., the values of the PFD thresholds.

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\*Bangladesh, Belarus, Korea (Rep of), India, Japan, Pakistan, Singapore, Sri Lanka and Thailand.

There are a number of administrations that either have or are proposing BSS and BSS (sound) systems for this band. These include India (operational GSO/BSS), Malaysia, (proposed GSO/BSS (sound), Japan (proposed NGSO/BSS/GSO (sound), Indonesia (operational GSO/BSS), and Canada (proposed GSO/BSS), Vietnam (proposed GSO/BSS), Saudi Arabia (operational GSO/BSS), Tonga (proposed GSO/BSS) and Brunei Darussalam (proposed GSO/BSS).

There have been a number of technical contributions to SRG 6S/11. It appears that representatives of European countries support the use of this band for IMT-2000 and are using conservative assumptions to advocate PFD threshold values which are significantly more restrictive than those in S21-4. In WP-8F meetings there has been particular disagreement between satellite and IMT-2000 advocates over what I/N value should be used as a protection criteria. It should be noted that the text of footnote S5.384A reads “this identification (for IMT-2000) does not preclude the use of these bands by any application of the services in which they are allocated and does not establish priority in the Radio Regulations.” This ensures that administrations are free to determine how spectrum is used in their country, subject to appropriate technical limits to protect use of the spectrum by other administrations, and a concept that the US has strongly supported as being essential in any bands identified for IMT-2000.

In many countries, including the US, studies are being performed to determine the appropriate bands for the implementation of IMT-2000. There are a number of incumbent services in this band that need to have continued access to the spectrum. For example, in the USA today there exists extensive ITFS, MMDS and two-way internet access systems.

#### **Preliminary U.S. View**

1. The use of the band 2630-2655 MHz by IMT-2000 systems should not preclude the use of this band by any application of the services to which they are allocated and no radio service should have priority over other services also allocated on a primary basis in this band and should include appropriate technical provisions.
2. The PFD threshold values for non-GSO BSS (sound) systems in the band 2630-2655 MHz in Region 3 should be maintained at the levels in Res. 539 unless ITU-R studies demonstrate a need to change them consistent with the View in #1 above.
3. Subject to the date provisions of Res. 539, existing satellite networks (i.e., those for which Coordination or Notification information has been provided to the ITU) should not be subject to more restrictive PFD threshold values or limits than those currently in Resolution 539 and S21-4, and any changes in these limits must not be applied retroactively to these existing satellite networks.