

WRC-2003 Advisory Committee

IWG-3

Fixed-Satellite and Broadcasting-Satellite Service Issues

Meeting Minutes

Meeting: Sixth Meeting of IWG-3

Date/Time: 27 November 2001 at 1 p.m.

Location: Federal Communications Commission, 6th Floor North Conference room

Committee Officers Present: T. Hayden, Chairperson

Committee Members Present: See **Annex 1**

FCC Employees Present: D. Garfield, R. Nelson, L. Reed, A. Roytblat

Agenda: The agenda (See **Annex 2**) was approved.

Minutes: The minutes from IWG-3 meeting #5, 8 August 2001, that appear in IWG-3/017(13.08.01) were approved without change. Ms. Taylor volunteered to draft the minutes for this meeting.

WAC Schedule/Objectives: The chairman reminded the group that the next WAC is scheduled for December 19 and there will possibly be another WAC meeting in January 2002. In order for input from IWG-3 to go forward to the WAC in December, documents must be approved at the December 11 meeting of IWG-3. Another factor is the need to have input to the WAC in December (or at the latest, January) in time for submission to the February 18-21, 2002 meeting of CITEP PCC-III. After approval by the WAC, the FCC and RCS will also need to agree on any US proposals going forward to CITEP PCC-III.

Review of IWG-3 WRC-03 Agenda Items: Two industry proposals were introduced (relating to agenda items 1.11 and 1.39), and the current status of the other WRC-03 agenda items under IWG-3's purview were discussed. The following summarizes the discussion for each agenda item.

(a) Agenda Item 1.8 – Larry Reed introduced a document (IWG-3/031) on the suppression of S5.555A on the basis that this footnote was subject to a sunset date which has passed. The discussion focused on whether this matter was the responsibility of IWG-3, and under which WRC-03 agenda item it most appropriately falls. Steve Doiron suggested that it could be addressed under Agenda Item 3 (Consequential Changes). Another suggestion was that it could be addressed under Item 7.1 (any difficulties or inconsistencies in application of the Radio Regulations). It was noted that the same

document also is being addressed in IWG-4. Diane Garfield suggested that the WAC leadership be requested to make a decision as to how this matter should be addressed. IWG-3 agreed to note this document, but not take any further action at this time.

Steve Doiron reported on the recent TG 1-7 meeting and stated that five options had been developed in the draft CPM text, including the possibility of a recommendation only or inclusion of the results of band-by-band studies on unwanted emissions (values agreed) in the Radio Regulations. Steve said that Europe is pushing putting something in the Radio Regulations. He noted that the next meeting of TG 1-7 is March 12-21 at Intelsat and that the documents are on the U.S. website. Doiron noted that there are no current plans to bring this before the next meeting of CITEL.

(b) Agenda Item 1.11: Alan Rinker of Boeing presented Document IWG-3/022 which is a proposal that the secondary allocation to mobile-satellite service (Earth-to-space) on a secondary basis in the band 14-14.5 GHz be extended to aeronautical-mobile satellite service. Alan cited the positive results of the recent ITU-R Working Party meetings on the subject of the ability of AMSS to operate without causing harmful interference to primary services in the band and compatibly with secondary services. The proposal notes that a separate proposal would be needed to enable the allocation to enter into force immediately upon the conclusion of the Conference. Don Jansky pointed out that this is typically addressed at the Conference and would cover a number of actions of the Conference. This point could be further amplified in the proposal. Don asked about the disposition of Resolution 216. Alan stated that this would be reviewed. Gene Rappoport stated the view that the resolution would likely need to be suppressed as a consequential change to the allocation.

(c) Agenda Item 1.19 Regulatory Misapplication of EPFD – An RCS proposal addressing 1.19 was distributed (Document IWG-3/023) and is available electronically on the WRC-03 FCC website (NTIA document 1400). Kim Baum asked if this addressed the activity on the subject in WP4A and Gene Rappoport reported that an output of WP4A indicates no change is needed to the Radio Regulations to address this concern.

(d) Agenda Item 1.27 BSS – no report was provided as Giselle Creeser was not present.

(e) Agenda Item 1.29 – NGSO/GSO Sharing – Chris Hofer provided a report on the Res. 78 issues. According to Chris, the U.S. submitted a contribution to WP4A re procedures to be included in a Recommendation which would address operational limits and additional operational limits. He noted that at WP4A the European administrations didn't think this was very useful. Nevertheless, draft CPM text was developed as a placeholder to address the possibility of including procedures in an Annex to a Recommendation. He noted that it appears WP4A is moving away from including such procedures in the Radio Regulations. Steve Baruch noted, however, that in the output from the Guatemala CITEL PCC-III meeting, there is material based on an input from Canada for development of additional procedures to be included in Article S15 of the Radio Regulations. With regard to development of a proposal to send forward to the WAC, Alex Roytblat suggested waiting for the RCS proposal since there is significant government interest in this topic.

Res. 136 issues – Steve Baruch reported that there are no developments in WP4A or in the U.S. but that mitigation techniques could be included in a resolution. He said there is no need for IWG-3 action at this time.

(f) Agenda Item 1.34 – NGSO BSS (Sound) – Don Jansky reported that the U.S. finally has a preliminary view but it “doesn't do anything.” He said there was some small progress at the last

CITEL meeting at the behest of Canada. However, in the U.S., Don said the matter is tied up in discussions between the FCC and NTIA on IMT-2000 and he doesn't see any point in developing an IWG-3 proposal at this time.

(g) Agenda Item 1.35 – S30 and S30A – It was noted that there will be report from the Director, BR, just before WRC-03, based on a study underway. Consequently, it is unlikely that a proposal can be developed. Angela Maimo stated that the results of the study are expected to be circulated before the November 2002 CPM.

(h) Agenda Item 1.37 – Highly-elliptical orbit satellite networks – Steve Baruch said that this topic generated a great deal of discussion at the WP4A meeting. He noted that France would like the topic to cover all frequency bands and all satellite services. There was some structure, but not substance, developed for the draft CPM text. Steve said there does not seem to be a real need to make major mods to the Radio Regulations as HEOs are subject to the same regulations as NGSOs. He noted that there is some impact on sharing w/FS which was not fully studied in JTG 4-9-11. Alex Roytblat suggested this requires a NOC proposal and Steve said he will draft such a proposal.

(i) Agenda Item 1.39: Kim Baum of Astrolink presented a proposal (Document IWG-3/030) which proposes no change (NOC) to the definition of space operation service, which includes the operation of space telemetry and no change (NOC) to the Article S5 Frequency Allocations for space services. There was some discussion as to the appropriate manner in which to indicate no change to Article S5 in this regard since the document currently indicates that no changes would be required to Article S5 (full stop) and should be worded in a manner which makes clear that the U.S. proposal is no change to Article S5 allocations under agenda item 1.39. Kim said she would look into the appropriate manner of handling this and revise the document.

The chairman proposed that comments be conveyed to the authors of the new draft proposals (Audrey Allison for Document IWG-3/022 and Kim Baum for IWG-3/030) as soon as possible but no later than December 4 and that new versions of these documents as well as any new proposals should be transmitted to members of IWG-3 by December 6 in advance of the next meeting.

Future Meetings: The next meeting of IWG-3 is scheduled for 11 December 2001, 9:30 a.m. - noon at the FCC sixth floor south conference room (6-B516).

Other Business: There was no other business and the meeting was adjourned at 2:40 p.m.

Documents Distributed: The documents that were distributed included the meeting agenda (see Annex 2), the minutes of the previous meeting (IWG-3/017- 13.08.01), the proposal on agenda item 1.11 (IWG-3/022-11.27.01), the RCS proposal on agenda item 1.19 (IWG-3/02-11.27.01), the proposal on agenda item 1.39 (IWG-3/030 -11.27.01) and Larry Reed's proposal relating to suppression of S5.555A (IWG-3/031 -11.27.01).

Public Participation Statement: The IWG-3 meeting was open to the public and was attended by 15 members from the public sector excluding FCC, NTIA and DoD (21 in total) as listed in ANNEX 1.

Author: Leslie A. Taylor

ANNEX 1 – IWG-3 MEMBERS PRESENT

Last Name	First Name	Affiliation
Baruch	Steve	Leventhal, Senter & Lerman
Baum	Kim	ASTROLINK
Byrd	James	Hughes Network Systems
Carroll	James	Consultant - DOD
Chew	Hubert	Boeing Space and Communications
Doiron	Steven	Intelsat
Garfield	Diane	FCC/IB
Hayden	Tom	Teledesic
Hofer	Chris	Hughes Network Systems
Jansky	Don	Jansky/Barmat Telecom
Maimo	Angela	Intelsat
Nelson	Robert	FCC
Pattilo	David	DirectTV
Ramsay	Brian	LMCO
Rappoport	Eugene	Loral
Reed	Larry	FCC
Renshaw	Alan	SFA, Inc.
Richards	Warren	ITT Industries
Rinker	Alan	Boeing
Roytlat	Alex	FCC/IB
Taylor	Leslie	Consultant to Boeing

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

IWG-3 Meeting #6

Agenda

1. Introductions and initial remarks
2. Volunteer to take minutes
3. Sign-in procedure
4. Approval of Agenda
5. Approval of IWG-3 Minutes from previous meeting (e-mailed out on 13 August 2001)
6. WAC goals/schedule
 - a. CITEP PCC III: 18-21 Feb 2002
 - b. WAC: 19 Dec 2001
7. Discussion of IWG-3 WRC-03 Agenda Items:
 - a. Status
 - b. New proposals (AI 1.11 and 1.39)
8. Any other business

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

Upcoming meetings for IWG-3

Meeting #7: December 11, 2001, 9:30 AM – noon, at the FCC 6th Floor South (6-B516)

For consideration at meeting #7, please e-mail draft proposals to IWG-3 distribution list no later than 6 Dec 2001.