

FINAL MINUTES

Minutes of the Tenth Meeting of the FCC Advisory Committee for the 2007 World Radiocommunication Conference (WRC-07)

Date/Time: October 4, 2006 at 11:00 a.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, Ms. Victory, noted that the committee was nearing the end of its work and wrapping up a few remaining issues. She thanked everyone for their efforts in moving forward to this point. She also said that the Vice Chair, Mr Hadinger, was unable to come to today's meeting because of a family matter.

Ms. Victory introduced John Giusti who was now Acting Bureau Chief of the FCC's International Bureau as a result of the departure of Don Abelson. Mr. Giusti, attending this meeting in his new capacity, remarked that he also had experience in the WRC preparatory work over a number of years and was familiar with the great amount of work that it took to prepare for World Radiocommunication Conferences. In view of this, he said that he was very appreciative and thanked everyone for their participation in on this committee as its input was critical in preparing for the conference. He reaffirmed that the FCC staff remained at its disposal to assist in the process. With only one year remaining until WRC-07, he wanted to make sure that all constituencies had an opportunity to provide their input in the preparations for the conference.

2. Approval of the Agenda

The agenda, Document **WAC/113(04/10/06)**, was approved without change.

3. Approval of the Minutes of the Ninth Meeting

The minutes, Document **WAC/112(27.04.06)**, were approved without change.

4. Report on Recent WRC-07 Preparatory Meetings

Mr. Roytblat reported that CITEL PCC II Working Group 1 (WRC-07) met in June and that the CEPT WRC-07 Conference Preparatory Group (CPG) met in July 2006. He remarked that the reports on these meetings, Documents **WAC/114(04.10.06)** and **WAC/115(04.10.06)**, reflected the current status of preparation in those regions. He also noted that the Europeans were proposing Mr. vonDiepenbeek, who had long been known within the ITU-R world, as its candidate for the Chairmanship of WRC-07.

5. NTIA Draft Preliminary Views and Proposals

Ms. Victory asked Jim Vorhies of the National Telecommunications and Information Administration (NTIA) if he wished to make any remarks. Mr. Vorhies responded that NTIA's Radiocommunication Conference Subcommittee (RCS) had completed the substantial issues but might have one, two, or three, additional proposals to address at their RCS meeting tomorrow. With CPM coming soon, NTIA's focus would turn to that. Ms. Victory thanked NTIA for all the proposals that they had produced as it had helped the informal working groups to focus on the issues. She said that many of these proposals would be addressed by the informal working groups today.

The NTIA letters, Documents **WAC/116(04.10.06)** through **WAC/126(04.10.06)** were noted.

6. IWG Status Reports and Consideration of Draft Preliminary Views and Proposals

IWG-1: Terrestrial and Space Science Services

Ms. Warren, the Chair of IWG-1, reported that IWG-1 had met once since the last meeting of the advisory committee and had comments on a number of NTIA draft proposals.

Comments on RCS preliminary views/proposals:

Ms. Warren said her group had approved without comment or edit the NTIA draft proposals for WRC-07 Agenda Items 1.3, 7.2 (Radiolocation allocations in the range from 3 to 30 MHz), 7.2 (Modification of the primary mobile service allocation in the 37-38 GHz band), and 7.2 (Revision of Appendix 17 of the Radio Regulations) in Documents **WAC/119**, **WAC/122**, **WAC/123** and **WAC/124**, respectively.

She reported that they also approved an NTIA draft proposal for WRC-07 Agenda Item 7.2 (Enhanced Maritime Ship and Port Security) (Ref. Document **WAC/125(04.10.06)**) with a comment requesting the identification of more specific frequencies and frequency ranges and modifications that emphasize that there would not be undue restrictions on existing services. These changes were presented in Document **WAC/129(04.10.06)**.

She noted that NTIA had two draft proposals for WRC-07 Agenda Item 1.2 in Document **WAC/121(04.10.06)**. The first proposal was for consideration of sharing

criteria between the passive services and the fixed and mobile services in the 36-37 GHz band and the second was for sharing conditions between the EESS (passive) and SRS (passive), on the one hand, and the fixed and mobile services in the 10.6-10.68 GHz band, on the other. She presented a paper, Document **WAC/127(04.10.06)**, developed by the Fixed Wireless Communications Coalition that stated its opposition to the proposal for the 10.6-10.68 GHz band. While there was opposition, she expressed optimism in that NASA and the fixed wireless community were already arranging to meet to find a satisfactory solution.

Ms. Victory asked if there were any comments or questions. There being none, Documents **WAC/127(04.10.06)** and **WAC/129(04.10.06)** were approved.

IWG-2: Satellite Services and HAPS

Mr. Baruch, Chair of IWG-2, reported that his group had held one meeting since the last meeting of the advisory committee and had considered three of the NTIA draft proposals.

Comments on RCS preliminary views/proposals:

Mr. Baruch stated that their comments were set forth in the minutes of their last meeting which had since been approved by IWG-2 and were presented today in Document **WAC/130(04.10.06)**:

NTIA's draft proposal for WRC-07 Agenda Item 4, Document **WAC/118(04.01.06)**, had been reviewed, and IWG-2 had produced a table with its responses. IWG-2 approved all of NTIA's proposals and noted that Resolution **140** could also be a candidate for suppression since action had already been taken.

NTIA's two draft proposals for WRC-07 Agenda Item 1.12, Document **WAC/117(04.10.06)**, were reviewed with the proposal for No. **9.14** of the Radio Regulations being endorsed by IWG-2. The proposal for modification of Appendix **5** of the Radio Regulations was not endorsed.

One of the proposals in NTIA's draft proposal for WRC-07 Agenda Item 1.4, Document **WAC/120(04.10.06)**, includes a space band, 3650-4200 MHz. Commercial satellite participants in IWG-2 noted a discrepancy between the frequency band in the table and that stated in the reason below it. This had been conveyed to IWG-3, and discussions were to continue between IWG-2 and IWG-3 to reconcile issues with respect to the 3650-3700 MHz portion of the band.

Ms. Victory asked if there were any objections to IWG-2's recommendations going forward. There were none.

Mr. Baruch added that with respect to NTIA's draft proposals for WRC-07 Agenda Item 7.2 concerning future WRC agendas, IWG-2 had the following remarks:

- the proposed new agenda item related to sharing in the 37-38 GHz band, Document **WAC/123(04.10.06)**, had not yet been considered by IWG-2
- the draft proposal for WRC-07 Agenda Item 1.8 (Resolution 122), Document **WAC/116(04.10.06)**, had already been handled. A U.S. draft proposal had been completed that was in the reconciliation process.

Mr. Baruch said that his group still needs to look at the NTIA draft proposal for WRC-07 Agenda Item 1.7 as well as the resolutions and recommendations and future conference agendas.

IWG-3: IMT-2000 and 2.5 GHz Sharing Issues

Ms. Cohen, Chair of IWG-3, reported that IWG-3 had met twice since the last meeting of the advisory committee and had three documents to present. She thanked the participants of her group for their efforts working to achieve compromises on the documents to be presented today.

She introduced the Draft Proposal for WRC-07 Agenda Item 1.4, Document **WAC/135(04.10.06)**, and said it sought “no change” to the 3700-4200 MHz band consistent with IWG-2’s views.

Comments on RCS preliminary views/proposals:

Ms. Cohen reported that her group also reviewed NTIA’s draft proposal for WRC-07 Agenda Item 1.4, Document **WAC/120(04.10.06)**, and presented IWG-3’s comments, Document **WAC/136(04.10.06)**. She noted the discrepancy relating to the 3650-3700 MHz band identified by IWG-2 and said that IWG-3 planned to meet with IWG-2 to work this out.

She presented a paper, Document **WAC/134(04.10.06)**, commenting on NTIA’s draft proposal for WRC-07 Agenda Item 4, Document **WAC/118(04.10.06)**, that proposed suppressing Resolution **722**. She pointed out that IWG-3 had earlier opposed NTIA’s draft proposal to suppress WRC-10 Agenda Item 2.8 and therefore was opposed to NTIA’s draft proposal to suppress Resolution **722** as this resolution was associated with Agenda Item 2.8.

Ms. Victory asked if there were any comments or questions on the documents presented by IWG-3 noting that there would be further discussions between IWG-2 and IWG-3 regarding the 3650-3700 MHz band. Ms. Baum, of Motorola, Inc., offered a clarification relating to IWG-2’s proposal that issues of satellite sharing be added to the justification of the RCS proposal for “no change” below 3700 MHz. She said that IWG-3 was not agreeing to adding satellite sharing issues below 3700 MHz as justification for no change to the RCS proposal but that they were still looking at the 3650-3700 MHz band as justification for “no change”. Mr. Baruch said that IWG-2 looked at 3650-4200 MHz so he did not have any difficulties with what Kim just said.

There being no further comments, the IWG-3 documents were approved except for the 3650-3700 MHz band issue that is to be further addressed between IWG-2 and IWG-3.

Ms. Cohen remarked that there would be much more work needed on WRC-07 Agenda Item 1.4 with respect to looking at the 698-806 MHz band and methods to satisfy the agenda item. She therefore encouraged participants to attend the next IWG-3 meeting. She added that an IWG-3 meeting was scheduled for October 24 at 10:00 a.m., but it might have to be changed.

IWG-4: Broadcasting and Amateur Issues

Mr. Ireland, Vice-Chair of IWG-4, said that he would be presenting two documents that had been approved by his group. The first was an additional draft proposal for WRC-07 Agenda Item 1.13 and the second provided the group's comments on NTIA Draft Proposals for WRC-07 Agenda Items 4 and 7.2.

A Draft Proposal for WRC-07 Agenda Item 1.13, **WAC/137(04.10.06)**, to establish a secondary 150 KHz allocation for the amateur service in the 5260-5410 kHz band was approved.

Comments on RCS preliminary views/proposals:

IWG-4 comments, Document **WAC/138(04.10.06)**, on draft proposals for WRC-07 Agenda Items 4 and 7.2 were approved.

Mr. Ireland said that his group had met twice since the last meeting of the advisory committee and may need one more meeting to deal with an anticipated draft proposal from Worldspace.

IWG-5: Regulatory Issues

Ms. Allison, the Chair of IWG-5, presented three items for the committee's approval. The first was a draft proposal under WRC-07 Agenda Item 1.12 to make a small change to provision No. **9.1** of the Radio Regulations to reduce the time period for beginning coordination with another administration by 6 months, Document **WAC/139(04.10.06)**.

The second was a draft proposal that was in response to NTIA's second draft proposal for WRC-07 Agenda Item 1.12 in Document **WAC/117(04.10.06)**. She reported that her group's proposal makes modifications to Appendix **5** of the Radio Regulations to eliminate coordination with a higher category of service, Document **WAC/140(04.10.06)**.

With no questions or objections, Documents **WAC/139(04.10.06)** and **WAC/140(04.10.06)** were approved.

The third item, Document **WAC/141(04.10.06)**, was IWG-5's comments on NTIA's draft proposal under WRC-07 Agenda Item 1.12, Document **WAC/092(27.04.06)**, to

modify Appendix 4 of the Radio Regulations relating to coordination data for active and passive services. Her group's comments were that IWG-5 remained opposed to this proposal by NTIA.

With no objections to these comments, Document **WAC/141(04.10.06)** was approved.

Ms. Allison also summarized her group's comments on other NTIA draft proposals:

1. They concurred with NTIA's draft proposal for WRC-07 Agenda Item 1.3, Document **WAC/119(04.10.06)**.
2. In regard to NTIA's two draft proposals for WRC-07 Agenda Item 1.2 in Document **WAC/121(04.10.06)**, it was determined that these proposals did not address issues of concern to IWG-5.
3. They concurred with NTIA's first draft proposal under WRC-07 Agenda Item 1.12 that proposed to modify provision No. **9.14** of the Radio Regulations, Document **WAC/117(04.10.06)**. NTIA's second draft proposal in this document was improved by IWG-5's recommendation approved above.
4. On NTIA's four draft proposals for WRC-07 Agenda Item 7.2, Document **WAC/122(04.01.06)** through **WAC/125(04.10.06)**, they had no opinion.
5. IWG-5 had not yet addressed NTIA's draft proposal for WRC-07 Agenda Item 4 in Document **WAC118(04.10.06)**.

Ms. Allison reported that there had not been any input for WRC-07 Agenda Item 7.2 so they did not have any proposal yet. She also advised that the upcoming Plenipotentiary Conference could possibly change Resolution **88** so it may no longer be available for making proposals in the future.

Ms. Victory expressed her appreciation for the work done in the informal working groups and reiterated that IWG-2 and IWG-3 would be meeting to work out their respective differences in regard to the 3650-3700 MHz band.

7. Future meetings

Mr. Roytblat presented an updated WRC-07 Preparatory Timeline, Document **WAC/004(04.10.06)**, and noted that preparatory work was in the final stage as evidenced by the few preparatory meetings remaining on the timeline document.

Ms. Victory announced that the next meeting of the advisory committee would be held on December 13, 11:00 a.m., at the FCC and would likely be the last meeting of the advisory committee.

8. Other business

There being no further business, the meeting adjourned at 11:38 a.m.

Documents Distributed:

- WAC/004 WRC-07 Preparatory Timeline (Updated 04.10.06)
- WAC/112 Minutes of the 9th WRC-07 Advisory Committee Meeting
- WAC/113 Agenda for the 10th WRC-07 Advisory Committee Meeting
- WAC/114 Report from the 7th Meeting of the CITEL PCC II Working Group, 20-23 June 2006
- WAC/115 Report from the 6th Meeting of the CEPT WRC-07 Conference Preparatory Group (CPG), 11-14 July 2006
- WAC/116 NTIA letter, 14 April 2006, with Draft Proposal for WRC-07 Agenda Item 1.8 (Resolution **122**)
- WAC/117 NTIA letter, 28 August 2006, with two Draft Proposals for WRC-07 Agenda Item 1.12 (one to modify No. 9.14 and the other to modify Appendix 5)
- WAC/118 NTIA letter, 29 August 2006, with Draft Proposal for WRC-07 Agenda Item 4
- WAC/119 NTIA letter, 30 August 2006, with Draft Proposal for WRC-07 Agenda Item 1.3
- WAC/120 NTIA letter, 13 September 2006, with Draft Proposal for WRC-07 Agenda Item 1.4
- WAC/121 NTIA letter, 18 September 2006, with two Draft Proposals for WRC-07 Agenda Item 1.2 (one for 36-37 GHz and the other for 10.6-10.68 MHz)
- WAC/122 NTIA letter, 20 September 2006, with Draft Proposal for WRC-07 Agenda Item 7.2 – Proposed agenda item: radiolocation allocations from 3-30 MHz
- WAC/123 NTIA letter, 20 September 2006, with Draft Proposal for WRC-07 Agenda Item 7.2 – Proposed agenda item: Modification of mobile service allocation (37-38 GHz)
- WAC/124 NTIA letter, 20 September 2006, with Draft Proposal for WRC-07 Agenda Item 7.2 – Proposed agenda item: Revision of Appendix 17 of the Radio Regulations
- WAC/125 NTIA letter, 20 September 2006, with Draft Proposal for WRC-07 Agenda Item 7.2 – Proposed agenda item: Spectrum requirements for port and ship security
- WAC/126 NTIA letter, 20 September 2006, with Draft Proposal for WRC-07 Agenda Item 1.7
- WAC/127 Opposition to NTIA Draft Proposal for WRC-07 Agenda Item 1.2 (Ref. WAC/121) from IWG-1
- WAC/128 [Not used - No document]
- WAC/129 Modification of NTIA Draft Proposal for WRC-07 Agenda Item 7.2, Enhanced Maritime and Port Security (IWG-1)
- WAC/130 Approved Minutes of the September 21, 2006 Meeting of IWG-2 with comments on NTIA draft proposals for WRC-07 agenda items (IWG-2)
- WAC/131 [Not used - No document]
- WAC/132 [Not used - No document]
- WAC/133 [Not used - No document]
- WAC/134 Comments on NTIA Draft Proposal for WRC-07 Agenda Item 4 (including Recommendation **722**) (IWG-3)
- WAC/135 Draft Proposal for WRC-07 Agenda Item 1.4 (IWG-3)
- WAC/136 Comments on NTIA Draft Proposal for WRC-07 Agenda Item 1.4 (IWG-3)
- WAC/137 Draft Proposal for WRC-07 Agenda Item 1.13 – 5 GHz frequency allocation for the amateur service (IWG-4)
- WAC/138 Comments on NTIA Draft Proposal for WRC-07 Agenda Items 4 and 7.2 (IWG-4)

- WAC/139 Draft Proposal for WRC-07 Agenda Item 1.12 related to RR No. **9.1** (IWG-5)
- WAC/140 Draft Proposal for WRC-07 Agenda Item 1.12 to modify Appendix 5 (based on NTIA draft proposal) (Ref. WAC/117 – Proposal No. 2) (IWG-5)
- WAC/141 Comments on NTIA Draft Proposal for WRC-07 Agenda Item 1.12 related to Appendix 4 data for active and passive and services (IWG-5)

MINUTES

Appendix 1 WRC-07 Advisory Committee Attendance Tenth Meeting – October 4, 2006

Last Name	First Name	Occupation Or Affiliation
Albuquerque	Jose	PanAmSat
Allison	Audrey	The Boeing Company
Baruch	Steve	Leventhal Senter & Lerman PLLC
Baum	Kim	Motorola, Inc.
Blais	Paul	DISA
Brittingham	Don	Verizon
Byrd	James	DHSSWMO/Booz Allen Hamilton
Cohen	Cecily	Nokia Inc.
Davison	Edward	NTIA
Fisher	Ben	Pillsbury Winthrop Shaw Pittman LLP
Florian	Mario	BCI Telecom
Glass	Charles	NTIA
Green	Katherine	ITT Industries
Haines	Robin H.	NTIA
Henriques	Humberto	Worldspace
Hutchings	Suzanne	ICO
Hutchison	Kris	Aviation Spectrum Resources, Inc.
Ireland	Walt	American Radio Relay League (ARRL)

Last Name	First Name	Occupation Or Affiliation
Kirby	Paul	Telecom Reports
Lewellen	Mark N.	SFA for U.S. Army
Markel	Robert	Radio Technical Commission for Maritime Services
Mitchell	Brandon	National Weather Service
Puckett	Ralph	DoD
Reed	Larry	ASRC Management Services
Rinker	Alan	Boeing
Schultz	Mike	Contractor for NASA
Straube	Henry	Consultant for Intel
Sung	Liching	NTIA
Vega	Mariana	TMG, Inc.
Victory	Nancy	Wiley Rein & Fielding LLP
Vorhies	Jim	NTIA
Warren	Jennifer	Lockheed Martin Corp.
Weaver	Frank C.	Boeing
Wilson	Joanne	ArrayComm

MINUTES
Appendix 2
WRC-07 Advisory Committee – FCC Representatives
Tenth Meeting – October 4, 2006

Last Name	First Name
Gilsenan	Jennifer
Giusti	John
Ibarra	Dante
Patterson	Rockie
Persaud	Sankar
Weiland	Donald