



**ORGANIZACION DE LOS ESTADOS AMERICANOS
ORGANIZATION OF AMERICAN STATES**

**Comisión Interamericana de Telecomunicaciones
Inter-American Telecommunication Commission**

**XII MEETING OF PERMANENT
CONSULTATIVE COMMITTEE II:
RADIOCOMMUNICATIONS
INCLUDING BROADCASTING
September 16 to 19, 2008
Mar del Plata, Argentina**

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FINAL REPORT

(Item on the Agenda: 7)

(Document submitted by the Drafting Group)

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FINAL REPORT

XII MEETING OF THE PERMANENT CONSULTATIVE COMMITTEE II: RADIOCOMMUNICATIONS INCLUDING BROADCASTING (PCC.II)

The XII Meeting of the Permanent Consultative Committee II: Radiocommunications including Broadcasting was held in Mar del Plata, Argentina, September 16 to 19, 2008.

I. AGENDA¹

1. Approval of the agenda and calendar.
2. Appointment of the Drafting Group for the Final Report.
3. Working methods of PCC.II.
4. Meeting of the Chairs of the Working Groups on:
 - 4.1 Working Group on Preparation for Regional and World Radiocommunication Conferences.
 - 4.2 Working Group on Terrestrial Fixed and Mobile Radiocommunication Services.
 - 4.3 Working Group on Satellite Systems to Provide Fixed and Mobile Services.
 - 4.4 Working Group on Broadcasting.
 - 4.5 Rapporteur Group on the Technical and Regulatory Aspects Related to the Effects of Electromagnetic Non-ionizing Emissions.
5. Agenda, Venue and Date of the XIII Meeting of PCC.II.
6. Other matters.
7. Approval of the Final Report of the XII Meeting.

II. AUTHORITIES OF THE MEETING

Alternate Chair: Mr. Mikhail Marsiglia (Venezuela)

Alternate Vice-Chair: Mr. Héctor Budé (Uruguay)

Executive Secretary: Mr. Clovis Baptista (OAS)

Drafting Group:

Chair Mr. Juan Manuel López Alcoba (Argentina)

Members: Mrs. Justine Sider (Canada)
Mr. Thomas Walsh (United States)
Mr. Iván Ávila (Venezuela)
Mr. Maximiliano Rodríguez (Venezuela)

¹ CCP.II-RADIO/doc. 1676/08 rev.1

III. RESOLUTIONS

PCC.II/RES. 51 (XII-08) ²

MECHANISMS TO RESOLVE CASES OF HARMFUL INTERFERENCE AMONG SATELLITE SYSTEMS

The XII Meeting of the Permanent Consultative Committee: Radiocommunications including Broadcasting,

CONSIDERING:

- a) That resolution of harmful interferences resulting from emissions of satellite systems, in most cases, requires a solution by means of co-operation between the Administrations and the satellite operators;
- b) That the need has arisen to develop measures regionally for the treatment of harmful interferences resulting from unauthorized emissions of satellite systems in the Americas, where the participation of CITEL Administrations is relevant for their resolution;
- c) That Resolution PCC.II/RES. 35 (VIII-06) contains Harmful Interference Location Methods in the Region of the Americas;
- d) That Article 15 of the ITU Radio Regulations sets forth provisions that should be taken into account for the development of a methodology for the treatment of harmful interferences,

RESOLVES:

1. To encourage CITEL Member States:
 - To apply the “Mechanisms to Resolve Cases of Harmful Interference among Satellite Systems,” annexed to this Resolution;
 - To report to PCC.II on the results of the application of said Mechanism, with a view to improving its implementation.

INSTRUCTS:

The Executive Secretary of CITEL to distribute this Resolution among the members of PCC.II.

² CCP.II-RADIO/doc. 1811/08 rev.2

ANNEX TO RESOLUTION PCC.II/RES. 51 (XII-08)

MECHANISMS TO RESOLVE CASES OF HARMFUL INTERFERENCE AMONG SATELLITE SYSTEMS

1. To facilitate the resolution of cases of harmful interference in the region of the Americas that cannot be resolved at the operator level, for example from unauthorized transmissions to satellite communication systems, it is essential that the affected satellite operator work in cooperation with the licensing Administration³ of the space station affected by the interference.
2. If a case of harmful interference so justifies, the satellite operator whose service is being interfered with (the “Victim Operator”) shall inform the licensing Administration, giving all possible information which will assist the Administration in determining the source of the interference.
 - Full particulars relating to harmful interference (i.e. frequency, bandwidth, power density, location, time, etc.) shall be provided by the victim satellite operator taking into account the harmful interference location identified in accordance with the Annex of Resolution PCC.II/RES.35 (VIII-06) and relevant procedures of the ITU Radio Regulations.
3. The licensing Administration of the affected space station (the “Victim Administration”) shall inform the Administration having jurisdiction over the suspected transmitting earth station interferer (the “Interferer Administration”), giving all available information which will assist in determining the interference source.
4. In cases of harmful interference where rapid action is required, communications between the Victim and Interferer Administrations shall be transmitted by electronic means. The Interferer Administration shall acknowledge receipt of the information from the Victim Administration. Such acknowledgment shall not constitute an acceptance of responsibility.
5. An Administration receiving a communication to the effect that a station located within its territory is suspected to be the source of harmful interference shall promptly investigate the matter on the basis of information received and respond to the Victim Administration as soon as possible and preferably within 30 days to indicate the results of its investigation and, if applicable, the steps which have been, or will be, taken to eliminate the harmful interference.
 - If further observations and measurements are necessary to determine the source of, and to establish the responsibility for, the harmful interference, the Victim and Interferer Administrations shall cooperate to facilitate the detection and elimination of the harmful interference.
6. The Victim Operator shall report to the licensing Administration as to the outcome of the steps taken to eliminate the harmful interference.

³ “Administration” may include the office or agency designated by the Administration to deal with spectrum issues.

- If the harmful interference persists in spite of the steps taken by the Interferer Administration, the Victim Administration:
 - a) may address to the Interferer Administration a report of irregularity or infraction in accordance with the provisions of Section V of Article 15 of the ITU Radio Regulations;
 - b) shall forward details of the case to the ITU Radiocommunication Bureau for its information and request the Bureau to act in accordance with the provisions of Section I of Article 13 of the ITU Radio Regulations. The Interferer Administration shall be copied on all correspondence between the Victim Administration and the Bureau.

PCC.II/RES. 52 (XII-08) ⁴

PROPOSED TIMELINE FOR CITEL WRC-11 PREPARATION

The XII Meeting of the Permanent Consultative Committee II: Radiocommunications including Broadcasting,

RECOGNIZING:

The need to establish guidance for the work of the Working Group for the Preparation of CITEL for Regional and World Radiocommunication Conferences,

CONSIDERING:

- a) That early submission of Inter-American Proposals (IAP) to the last two WRCs kept CITEL at the forefront of discussion on any given Agenda Item;
- b) That the number of IAPs submitted to the Conference placed CITEL in a very strong position;
- c) That there were several times during the conference when issues were regionalized;
- d) That prior preparation strengthened CITEL's effectiveness;
- e) That when attending conference preparatory meetings of other regions, CITEL views are always requested;
- f) That in view of the above, the early submission of IAP to the ITU should be a priority for CITEL, and
- g) That there may be a need to submit new draft Inter-American Proposals as a result of the ITU Conference Preparatory Meeting (CPM),

⁴ CCP.II-RADIO/doc. 1827/08

RESOLVES:

1. To establish a timeline for CITEL's preparation for participation in WRC-11 in accordance with Annex to this Resolution.
2. That this timeline is subject to change depending on budgetary restrictions of CITEL and host countries.
3. That it is possible for the Working Group for the Preparation of CITEL for Regional and World Radiocommunication Conferences to meet outside of a PCC.II meeting.
4. To ensure that, whenever possible, there is no conflict with conference preparatory meetings of other regional organizations.

ANNEX TO RESOLUTION PCC.II/RES. 52 (XII-08)**PROPOSED TIMELINE FOR CITEL WRC-11 PREPARATION**

(Dates depend of Host Country Arrangements)

2009

| | |
|-------------|---------|
| XIII PCC.II | June |
| XIV PCC.II | October |

2010

| | |
|------------|---|
| XV PCC.II | April |
| XVI PCC.II | October (Limit Meeting – Last Input of New Proposals) |

2011

| | |
|-------------|---|
| CPM11-2 | 14-25 February |
| XVII PCC.II | June (Post CPM Proposals May Be Submitted) |
| WRC WG | October (Organizational Meeting – Selection of Agenda Item Spokespersons) |
| WRC-11 | October-November |

STRUCTURE OF THE WORKING GROUP FOR THE PREPARATION OF CITEL FOR REGIONAL AND WORLD RADIOCOMMUNICATION CONFERENCES, IN PREPARATION FOR WRC-11

The XII Meeting of Permanent Consultative Committee II: Radiocommunications including Broadcasting,

HAVING EXAMINED:

The work structure used during the preparations for the World Radiocommunication Conference 2011 (WRC), as well as the contributions of the Administrations to the WRC-11,

TAKING INTO ACCOUNT:

The terms of reference of the Working Group for the Preparation of CITEL for Regional and World Radiocommunication Conferences established in Resolution PCC.II/RES. 4 (I-03),

RESOLVES:

1. To use the structure and assign the functions set forth in the Annex for the implementation of the activities of the Group.
2. That the Working Group will have a Chair and up to two ViceChairs (ViceChair 1 and ViceChair 2) who will serve for a cycle of WRC.
3. That after the conclusion of the cycle of WRC, the ViceChair 1 will assume the Chairmanship of the Working Group and the possible ViceChair 2 will assume the ViceChairmanship 1 and if necessary a ViceChair 2 will be appointed.
4. To designate the Administration of Brazil as Chair, the Administration of Uruguay as ViceChair 1 and the Administration of United States as ViceChair 2.
5. To encourage Administrations to support the work of the group by appointing coordinators and/or alternate coordinators for the different Agenda items and to actively participate and send contributions for the preparation of WRC-11.
6. To include the latest information on the preparation in the discussion group on WRC in the Electronic Forum of CITEL.
7. To derogate Resolution PCC.II/RES. 49 (XI-08) and the authorities for this Working Group indicated in Resolution PCC.II/RES. 4 (I-03).

⁵ CCP.II-RADIO/doc. 1832/08

ANNEX TO RESOLUTION PCC.II/RES.53 (XII-08)

STRUCTURE OF THE WORKING GROUP FOR THE PREPARATION OF CITEL FOR WRC-11

1. Functions of coordinators and rapporteurs

Preparations for WRC-11 will be made in accordance with CITEL procedure for preparing and adopting inter-American proposals for submission to a World Radiocommunication Conference.

A Coordinator for each Sub Working Group, and Rapporteurs for each item or group of items on the agenda for WRC-11, will be designated, each with his or her respective alternate.

They will have the following functions:

- a) Coordinator of the Sub Working Group:
 - To chair and coordinate the activities of the Sub Working Group.
 - To attend all meetings of the Working Group for the Preparation of CITEL for WRC-11.
 - To submit to the Working Group for the Preparation of CITEL for WRC-11 a brief summary of the activities of the Sub Working Group, reflecting the contributions presented and the status of the work.
 - To consult with the Alternate Coordinator of the Sub Working Group.
- b) Alternate Coordinator of the Sub Working Group:
 - To assist actively with the work of the Coordinator of the Sub Working Group.
 - To assume the responsibilities of the Coordinator of the Sub Working Group, if necessary.
- c) Rapporteur:
 - To chair and coordinate the activities of the Rapporteur Group.
 - To attend all meetings of the Working Group for the Preparation of CITEL for WRC-11.
 - To provide the Coordinator of the Sub Working Group with a summary of the activities and outputs and outcomes of the Rapporteur Group.
 - To consult with the Alternate Rapporteur.
- d) Alternate Rapporteur:
 - To assist actively with the work of the Rapporteur.
 - To assume the responsibilities of the Rapporteur, if necessary.

2. Structure of the Working Group for the Preparation of CITEL for WRC-11

| Sub Working Group | Issues | Agenda items |
|-------------------|---|---|
| SGT-1 | Maritime, Aeronautical, and Radiolocation | 1.3, 1.4, 1.9, 1.10, 1.14, 1.15, 1.21 |
| SGT-2 | Fixed, Mobile, Broadcasting and Amateur | 1.5, 1.8, 1.13, 1.17, 1.20, 1.23 |
| SGT-3 | Science and Satellite | 1.6, 1.7, 1.11, 1.12, 1.16, 1.18, 1.24, 1.25, 7 |
| SGT-4 | Future work program and other | 1.1, 1.2, 1.19, 1.22, 2, 4, 8.1, 8.2 |

PCC.II/RES. 54 (XII-08) ⁶

**WORKSHOP ON MANAGEMENT AND APPLICATION OF APPENDIX 30B OF THE ITU
RADIO REGULATIONS**

The XII Meeting of the Permanent Consultative Committee II: Radiocommunications including Broadcasting,

CONSIDERING:

- a) That the World Radiocommunication Conference (WRC-07) made substantial modifications to Appendix 30B of the ITU Radio Regulations based on the principle that the assignment plan must continue to include an orbital position for each country;
- b) That as a result of the modifications made to Appendix 30B, the countries of CITEL have decided it is of utmost necessity to study and know in greater depth the application of this Appendix in view of its implementation by Member Countries;
- c) That the majority of the Member Administrations of CITEL have not applied or put into practice the extensive dispositions of Appendix 30B of the ITU Radio Regulations, whether due to the lack of resources and/or knowledge;
- d) That Resolution PCC.II/RES. 47 (XI-08) on the “Design and implementation of training programs for the management and application of Appendix 30B of the ITU Radio Regulations by the Member Countries of CITEL”, was approved, in which it is requested the design of training mechanisms and programs that would make it possible to learn about, study and apply Appendix 30B or the ITU Radio Regulations by the Administrations of CITEL,

RECOGNIZING:

- a) The importance of the ITU as an advisory body of the Administrations for the management and use of the Radio Regulations, principally in the application of new technical parameters, sharing criteria, and associated methods of calculation;
- b) The usefulness of workshops and seminars as an effective mechanism for analyzing important current topics and raise the level of understanding on them,

RESOLVES:

1. To hold the Workshop on “Management and application of appendix 30b of the itu radio regulations” in accordance with Resolution PCC.III/RES.86 (XII-99), at the XIV PCC.II Meeting of CITEL.
2. To request the valuable support of the ITU for the realization of said event.
3. To appoint the Administration of Venezuela as Workshop Coordinator.

⁶ CCP.II-RADIO/doc. 1818/08 cor.1

TO INSTRUCT THE CITEL SECRETARIAT:

1. To contact the ITU to request support for coordinating duties mentioned in *resolves* 2.
2. To circulate this Resolution urging all Members to participate in the event.
3. To continue the coordination with the ITU concerning works related to Resolution PCC.II/RES.47 (XI-08)

PCC.II/RES. 55 (XII-08) ⁷

AGENDA, VENUE AND DATE OF THE XIII MEETING OF PCC.II

The XII Meeting of the Permanent Consultative Committee II: Radiocommunications including Broadcasting,

CONSIDERING:

- a) That importance of setting dates and venues of future meetings well in advance to facilitate planning;
- b) That radiocommunication events such as “Spectrum 20/20” provide for a means to discuss spectrum related issues important to the Region,

RECOGNIZING:

- a) The usefulness of events such as “Spectrum 20/20” as an effective mechanism to focus the attention on important current topics and raise the level of understanding on them;
- b) That Administrations are seeking information on how to best address recent international developments in the area of radiocommunication;
- c) That it is advantageous to share information among CITEL’s Member States, Associate Members and Observers of CITEL;
- d) That the information presented in international events, such as “Spectrum 20/20”, is an important background and reference for other International and Regional Organizations,

RESOLVES:

1. To hold the XIII Meeting of PCC.II from June 2 to June 5, 2008 in Ottawa, Ontario, Canada.
2. To approve the draft agenda for the XIII Meeting, which is attached as an Annex.

⁷ CCP.II-RADIO/doc. 1730/08

3. That an event entitled “Spectrum 20/20”, dealing with spectrum related issues important to the countries of the Americas and the Caribbean, be organized one day before the XIII CITEL PCC.II Meeting.
4. To hold the event pursuant to Resolution PCC.III/RES.86 (XII-99), entitled “Procedures for the Organization of Seminars,” noting in particular that the event will be held at no cost to CITEL.
5. To urge CITEL Administrations to participate and exchange experiences so as to ensure the success of said event.
6. To invite subject experts to take part by making presentations at the event and to invite all participants to exchange information on their experiences with the issues discussed.
7. To set a maximum duration of one day for this Event.
8. To appoint Mr. Marc Girouard from the Administration of Canada as the coordinator of “Spectrum 20/20” (e-mail: girouard.marc.dgse@ic.gc.ca tel: +1 613 990 4770).
9. To request CITEL Member States, PCC.II Associate Members, and Observers of CITEL interested in participating in the event to contact the above mentioned coordinator.

TO INSTRUCT THE CITEL SECRETARIAT:

To send this Resolution to CITEL Member States, requesting them to inform the coordinator of Spectrum 20/20, before November 15, 2008, of the items that they would like to see included in such event.

ANNEX TO RESOLUTION PCC.II/RES. 55 (XII-08)

DETAILED DRAFT AGENDAS OF THE WORKING GROUPS

1. Approval of the agenda and calendar.
2. Appointment of the Drafting Group for the Final Report.
3. Working methods of PCC.II.
4. Meeting of the Chairs of the Working Groups on:
 - [4.1 Working Group on Preparation for Regional and World Radiocommunication Conferences.](#)
 - [4.2 Working Group on Terrestrial Fixed and Mobile Radiocommunication Services.](#)
 - [4.3 Working Group on Satellite Systems to Provide Fixed and Mobile Services.](#)
 - [4.4 Working Group on Broadcasting.](#)
 - [4.5 Rapporteur Group on the Technical and Regulatory Aspects Related to the Effects of Electromagnetic Non-ionizing Emissions.](#)
5. Agenda, Venue and Date of the XIV Meeting of PCC.II.

6. Other matters.
7. Approval of the Final Report of the XIII Meeting.

DRAFT AGENDAS OF WORKING GROUPS

4.1 Draft Agenda of the Working Group on the preparation of CITEL for Regional and World Radiocommunication Conferences

1. Presentation and approval of the agenda.
2. Working methods.
3. Structure of the Working Group, identification of agenda items rapporteur and assignment of functions to Coordinators and Rapporteur.
4. Assignment of documents to the subgroups:
 - 4.1. SGT 1 - Maritime, aeronautical, 1.3, 1.4, 1.9, 1.10, 1.14, 1.15, 1.21 and radiolocation issues
 - 4.2. SGT 2 - Fixed, mobile, 1.5, 1.8, 1.13, 1.17, 1.20, 1.23 broadcasting and amateur issues
 - 4.3. SGT 3 - Science and satellite 1.6, 1.7, 1.11, 1.12, 1.16, 1.18, 1.24, 1.25, 7 issues
 - 4.4. SGT 4 - Future work 1.1, 1.2, 1.19, 1.22, 2, 4, 8.1, 8.2 programme and other issues
5. Reports of the spokespersons to other organization's meetings.
6. Work plan 2009-2010.
7. Other matters.

4.2 Draft Agenda of the Working Group on Terrestrial Fixed and Mobile Radiocommunication Services

1. Opening remarks.
2. Approval of the agenda.
3. Broadband Power line communication.
4. Broadband Wireless Access and Aspects of Broadband Mobility.
5. Discussion and review involving RFID.
6. Update of PCC.II Recommendation on low power devices.
7. Spectrum needs for the functioning of unmanned aircraft systems (UAS).
8. Re-location of the 450 MHz and 700 MHz bands.
9. Aspects of fixed system convergence.
10. Theory and application of cognitive or intelligent radio equipment.
11. Application of intelligent antennas and the technique known as MIMO.
12. Studies on the theory and application of UWB radio equipment.
13. Attributions to the aeronautical mobile services (R) SMA (R).
14. Use of bands identified for IMT in region 2.
15. Available frequencies for emergency situations.
16. Work plan 2009-2010.
16. Other business.

4.3 Draft Agenda of the Working Group on Satellite Systems to Provide Fixed and Mobile Services

1. Adoption of the agenda.
2. General guidelines for the licensing of Global Mobile Personal Communications by Satellite (GMPCS) networks.
3. Procedures for authorization of earth stations on board vessels (ESV).
4. Implementation of regulations to facilitate the deployment of satellite services.
5. Harmful interference from non authorized satellite network transmissions.
6. Work plan 2009-2010.
7. Use, operation, and applications of the C band by Member Administrations of CITEL.
8. Existing databases on satellite systems.
9. Technical and regulatory aspects contained in Appendix 30B of the ITU Radio Regulations.
10. Other business.

4.4 Draft Agenda of the Working Group on Broadcasting

1. Opening remarks.
2. Approval of the agenda.
3. Modifications to the Digital Terrestrial Television Broadcasting Implementation Guide (CCP.II-RADIO/doc.1736/08 rev.2)
4. Contributions for the Digital Terrestrial Television Implementation Guide.
5. Analysis of the information supplied by the Administrations on the actual frequency usage and future expectations for the use of the bands of frequencies 54-72 MHz, 76-88 MHz and 174-216 MHz in Region 2.
6. Current status for the Development of Digital Sound Broadcasting in the region.
7. Work Plan 2009-2010.
8. Other business.

4.5 Draft Agenda of the Rapporteur Group on the Technical and Regulatory Aspects Related to the Effects of Electromagnetic Non-ionizing Emissions (NIR)

1. Opening remarks and approval of the agenda.
2. Report of the Workshop ICNIRP.
3. Report of the meeting IRPA.
4. Systems of measurements of NIR, report of the status of advance of the studies of the Rapporteur Group.
5. Draft Best practices code to install antennas.
6. Work Plan 2009-2010.
7. Other business.

PCC.II/RES. 56 (XII-08) ⁸

PCC.II WORK PLAN FOR 2009-2010

The XII Meeting of Permanent Consultative Committee II: Radiocommunications including Broadcasting,

CONSIDERING:

- a) The Strategic Plan for 2006-2010 approved by the IV Assembly of CITEL, in Resolution CITEL RES. 52 (IV-06);
- b) The need to assess compliance with the CITEL Strategic Plan as requested in resolution COM/CITEL RES. 161 (XIII-03) "Addition of Performance Parameters or Indicators to CITEL Strategic Plans",

RESOLVES:

- 1. To approve the work plans of PCC.II attached.
- 2. To assess the results of and revise these work plans annually.
- 3. To revoke PCC.II/RES. 48 (XI-08).

ANNEX TO RESOLUTION PCC.II/RES. 56 (XII-08)

WORKING GROUP ON PREPARATION FOR REGIONAL AND WORLD COMMUNICATION CONFERENCES ⁹

1. AUTHORITIES

Chair: Brazil
Vice-Chair 1: Uruguay
Vice-Chair 2: United States of America

| Working Sub-Group | Issues | Agenda Items |
|-------------------|--|---------------------------------------|
| SGT-1 | MARITIME, AERONAUTICAL, AND RADIOLOCATION ISSUES | 1.3, 1.4, 1.9, 1.10, 1.14, 1.15, 1.21 |

⁸ CCP.II-RADIO/doc. 1836/08

⁹ CCP.II-RADIO/doc. 1668/08 rev.2

| Working Sub-Group | Issues | Agenda Items |
|--------------------------|--|---|
| SGT-2 | FIXED, MOBILE, BROADCASTING AND AMATEUR ISSUES | 1.5, 1.8, 1.13, 1.17, 1.20, 1.23 |
| SGT-3 | SCIENCE AND SATELLITE ISSUES | 1.6, 1.7, 1.11, 1.12, 1.16, 1.18, 1.24, 1.25, 7 |
| SGT-4 | FUTURE WORK PROGRAMME AND OTHER ISSUES | 1.1, 1.2, 1.19, 1.22, 2, 4, 8.1, 8.2 |

2. TERMS OF REFERENCE

2.1 To develop common positions and draw up Inter-American proposals on issues related to Radiocommunication and Broadcasting to be addressed by World and/or Regional Conferences convened under the aegis of the International Telecommunication Union (ITU).

2.2 To coordinate relations and the exchange of information with other Regions on issues under its responsibility.

2.3 To coordinate CITEL's work during Regional and World Radiocommunication Conferences.

2.4 To coordinate topics of mutual interest with other PCC.II Working Groups.

3. OBJECTIVES

3.1 To ensure that the backgrounds and proposals for each item on the Agenda of Regional and World Radiocommunication Conferences to be held during the period 2008-2011 are kept updated.

3.2 To agree on Inter-American Proposals (IAPs) to be presented at Regional and World Radiocommunication Conferences to be held during the period 2008-2011.

4. STRATEGIC PRIORITY

To promote the active participation of all CITEL Administrations in presenting and negotiating the proposals mentioned in the Agenda items of Regional and World Radiocommunication Conferences to be held during the period 2008-2011.

5. LINES OF ACTION

5.1. To analyze proposals and promote agreements or consensus leading to Draft Inter-American Proposals (DIAPs).

5.2. To promote rapprochement among the Administrations to achieve Inter-American Proposals (IAPs).

5.3. To endeavor to have the DIAPs and IAPs be distributed to all the Administrations on a timely basis.

5.4. To call for the active participation of the Administrations at the meetings of the Working Group for the Preparation for Regional and World Radiocommunication Conferences.

5.5. To foster the participation of the Administrations in the process preparatory to Regional and World Radiocommunication Conferences to be held during the period 2008-2011.

5.6. To foster circulation of relevant information through the contacts identified by the Administrations taking part in the ITU-R Study Groups and through the CITELE spokespersons at the relevant meetings.

5.7. To foster participation and presentation of proposals by the Administrations during the period between PCC.II meetings.

5.8. To interact with other CITELE Working Groups, especially PCC.II groups.

5.9. To identify CITELE spokespersons for those items on the WRC-11 agenda where there are IAPs.

5.10. To promote CITELE candidates to be considered as authorities of the Conference Preparatory Meeting (CPM) and WRC.

6. INDICATORS

6.1 Contributions.

6.2 Draft IAPs.

6.3 IAPs achieved.

6.4 IAPs adopted at the World Radiocommunication Conferences.

7. ACTIVITIES

During the 2009-2010 period the activities to be carried out by the group will be those arising from proposals by the Administrations. The procedure for drawing up the IAPs is set forth in the appropriate CITELE Resolution.

WORKING GROUP ON TERRESTRIAL AND FIXED AND MOBILE RADIOCOMMUNICATION SERVICES

1. AUTHORITIES

Chair: Brazil

Vice-Chairs: Guatemala, Dominican Republic

2. TERMS OF REFERENCE

2.1 To identify the current status of radio frequency use, particularly in Region 2, as well as to develop Resolutions, Recommendations and decision for the harmonization of spectrum usage for terrestrial fixed and mobile radiocommunication services.

2.2 To follow the activities and studies being conducted at the ITU, particularly in the Radiocommunication and Standardization sectors, recognizing the complementary roles of the sectors, in order to develop positions on topics in Radiocommunication including standards that will be considered at the ITU Study Groups as well as to analyze the results of the WRCs in order to evaluate the need to take action regarding specific issues.

2.3 To prepare Recommendations regarding the use and sharing of radio frequency, including channeling arrangements.

2.4 To collect and provide technical information regarding new technologies and services to the Administrations of Region 2.

3. OBJECTIVES

3.1 To promote between Member States the coordination, planning and harmonization of the radio spectrum and introduction of new radiocommunication technologies and services related to terrestrial fixed and mobile systems.

3.2 To promote the active participation of all CITEL Administrations and Associate Members in preparing Resolutions, Recommendations and Decisions on issues that are part of the Terrestrial Fixed and Mobile Radiocommunication Services, all within the mandate of the Working Group.

4. STRATEGIC PRIORITY

To promote the active participation of all CITEL Administrations and Associates in supporting the timely access to the radio spectrum for new applications and technologies on fixed and mobile services, taking into account the currently existing radiocommunication services.

5. LINES OF ACTION

5.1 To encourage the participation and submittal of contributions by the Administrations and Associate Members at the meetings of the PCC.II.

5.2 To foster the participation of the Administrations and Associate Members at the PCC.II fora that might be created, to enrich and discuss matters related to issues on the rational, adequate and efficient use of the radio spectrum and its timely access.

5.3 To the extent necessary, working jointly with other Working Groups within PCC.II, using mechanism allowed by PCC.II procedures for its results to reach general consensus.

5.4 Broadly, to deal with issues appointed to the group to objectively include in its results the various contributions made during its activities.

6. INDICATORS

6.1 Proposals submitted by the Administrations, on the issues discussed by the group and contributions in the meetings that might be held.

6.2 Meetings held to evaluate the proposals submitted by the Administrations and Associate Members which make it possible to materialize Resolutions, Recommendations and Decisions.

6.3 Creation of discussion groups over the CITELElectronic forum, to facilitate the exchange of opinions and to make it possible, through distance communication, to reach an agreement on the proposals.

6.4 Documents sent to other PCC.II Working Groups in order to be able complement the points of view that make it possible to achieve the general goals of the PCC.II.

7. ACTIVITIES

The activities of the group during this period shall be those assigned to it on its mandate and, those that arise as a result of the proposals made by the Administrations and the Associate Members. The issues shall vary as a consequence of technological advances and the needs to use the radio spectrum.

Following is attached hereto as reference; the table shows information on some of the issues and activities identified that will be included or that might be subject to analysis by the group during the period encompassed by this plan.

MAIN TOPICS IDENTIFIED

| YEAR | | | | |
|---|---|---|---|---|
| 2006 | 2007 | 2008 | 2009 | 2010 |
| Review and discussion involving radio frequency identification devices. | Review and discussion involving radio frequency identification devices. | Review and discussion involving radio frequency identification devices. | Review and discussion involving radio frequency identification devices. | Review and discussion involving radio frequency identification devices. |
| Update of Recommendation on radiocommunication low power devices by PCC.II. | Update of Recommendation on radiocommunication low power devices by PCC.II. | Update of Recommendation on radiocommunication low power devices by PCC.II. | Update of Recommendation on radiocommunication low power devices by PCC.II. | Analysis, review, discussion of preceding or new issues arising as a consequence of technological developments. |
| RLAN on the 5 GHz band inside aircrafts. | RLAN on the 5 GHz band inside aircrafts. | Spectrum needs for the functioning of unmanned aircraft systems (UAS). | Spectrum needs for the functioning of unmanned aircraft systems (UAS). | Spectrum needs for the functioning of unmanned aircraft systems (UAS). |

| YEAR | | | | |
|--|---|---|---|---|
| 2006 | 2007 | 2008 | 2009 | 2010 |
| Broadband over power lines (BPL). | Broadband over power lines (BPL). | Broadband over power lines (BPL). | Broadband over power lines (BPL). | Analysis, review, discussion of preceding or new issues arising as a consequence of technological developments. |
| Re-location of the 700 MHz band. | Re-location of the 700 MHz band. | Re-location of the 700 MHz band. | Analysis, review, discussion of preceding or new issues arising as a consequence of technological developments. | Analysis, review, discussion of preceding or new issues arising as a consequence of technological developments. |
| Broadband Wireless Access (BWA) Systems. | Broadband Wireless Access (BWA) Systems. | Broadband Wireless Access (BWA) Systems. | Broadband Wireless Access (BWA) Systems. | Analysis, review, discussion of preceding or new issues arising as a consequence of technological developments. |
| - | Aspects of Broadband Mobility. | Aspects of Broadband Mobility. | Aspects of Broadband Mobility. | Analysis, review, discussion of preceding or new issues arising as a consequence of technological developments. |
| - | Aspects of fixed mobile system convergence. | Aspects of fixed mobile system convergence. | Aspects of fixed mobile system convergence. | Analysis, review, discussion of preceding or new issues arising as a consequence of technological developments. |
| - | Theory and application of cognitive or intelligent radio equipment. | Theory and application of cognitive or intelligent radio equipment. | Theory and application of cognitive or intelligent radio equipment. | Analysis, review, discussion of preceding or new issues arising as a consequence of technological developments. |
| - | Application of intelligent antennas and the technique known as MIMO (Multiple Input | Application of intelligent antennas and the technique known as MIMO (Multiple Input | Application of intelligent antennas and the technique known as MIMO (Multiple Input | Analysis, review, discussion of preceding or new issues arising as a consequence of technological |

| YEAR | | | | |
|------|---|--|--|---|
| 2006 | 2007 | 2008 | 2009 | 2010 |
| | Multiple Output). | Multiple Output). | Multiple Output). | developments. |
| - | Studies on the theory and application of UWB radio equipment. | Studies on the theory and application of UWB radio equipment. | Studies on the theory and application of UWB radio equipment. | Analysis, review, discussion of preceding or new issues arising as a consequence of technological developments. |
| - | - | Attributions to the radiolocalization service. | Attributions to the radiolocalization service. | Attributions to the radiolocalization service. |
| - | - | Introduction of new systems to the aeronautical mobile service (R) SMA(R). | Introduction of new systems to the aeronautical mobile service (R) SMA(R). | Introduction of new systems to the aeronautical mobile service (R) SMA(R). |
| - | - | Use of bands identified for IMT in Region 2. | Use of bands identified for IMT in Region 2. | Use of bands identified for IMT in Region 2. |
| - | - | Available frequencies for emergency situations. | Available frequencies for emergency situations. | Available frequencies for emergency situations. |

WORKING GROUP ON SATELLITE SYSTEMS TO PROVIDE FIXED AND MOBILE SERVICES

1. AUTHORITIES

Chair: Peru
Vice-Chairs: El Salvador, Mexico

2. TERMS OF REFERENCE

2.1 To analyze the adoption of technologies that enable to meet the requirements of the Member States;

2.2 To provide information to the Member States of results obtained in the area of satellites by the World Radiocommunication Conferences;

2.3 To analyze the implementation of satellite systems by the CITEL Member Countries, taking into account, *inter alia*, the following points:

- 2.3.1 use of the radio frequency spectrum;
- 2.3.2 possible criteria for sharing frequency bands for the interoperability of satellite systems and other services;
- 2.3.3 procedures for coordination in keeping with those of ITU-R;
- 2.3.4 implementation of the Global Mobile Personal Communications by Satellite (GMPCS) Memorandum of Understanding and Arrangements;
- 2.4 To propose information mechanisms for the CITEL Member Countries that, *inter alia*, cover:
 - 2.4.1 technical standards;
 - 2.4.2 regulatory framework;
 - 2.4.3 interconnection criteria;
 - 2.4.4 operation networks;
 - 2.4.5 migration processes;
 - 2.4.6 existing providers and technologies on the market;
 - 2.4.7 unhindered circulation of GMPCS terminals across borders;
 - 2.4.8 services transmitted through satellite systems.

3. OBJECTIVES

- 3.1 To maintain, broaden, and strengthen cooperation with CITEL Member States and the associate members of PCC/II, to achieve the harmonious development of telecommunications by satellite in the region.
- 3.2 To build up the participation of Member States and associate members and cooperation ties with international and regional telecommunication organizations and other institutions related to the telecommunications by satellite sector.
- 3.3 To promote the use and introduction of new telecommunications by satellite applications and related technologies, taking into account the needs of each member country of CITEL.

4. STRATEGIC PRIORITY

To analyze the implementation of satellite systems by CITEL Member Countries enabling them to meet their needs considering existing regulations and those planned for the future.

5. LINES OF ACTION

5.1 To foster the presentation of contributions by Administrations and associate members aimed at consolidating and, to the extent possible, harmonizing the regulations or measures that facilitate the deployment of satellite systems.

5.2 To promote information mechanisms that serve as a reference or guide to CITEL member Administrations on regulations for satellite systems and related matters.

5.3 To encourage the participation of the Administrations and associate members at PCC.II forums in order to enrich and discuss matters related to the efficient use of the orbital spectrum resource and its applications.

5.4 To foster the participation of member Administrations and associate members at ITU, mainly at world conferences and technical meetings of ITU-R related to satellite systems, and to facilitate the results of the PCC.II.

6. INDICATORS

6.1 Recommendations, Resolutions, and Decisions considering the work to be developed.

6.2 Sub Working Groups and ad hoc groups, taking into account the needs and objectives of the topic.

6.3 Electronic discussion forums and technical notebooks.

7. ACTIVITIES

The activities shall be carried out on the basis of the topics included or that can be included on the agenda of the Working Group.

The activities of this Working Group are presented below, with its respective programmed actions for the period 2007 to 2010.

| ACTIVITY | 2007 | 2008 | 2009 | 2010 |
|---|---|---|---|---|
| 1. General guidelines for granting licenses for global mobile personal communications by satellite systems (GMPCS). | 1.1 Discussion of proposals on the topic. | 1.1 Discussion of proposals on the topic. | 1.1 Discussion of proposals on the topic. | 1.1 Discussion of proposals on the topic. |
| 2. Procedures to be used for the authorization of earth stations on board vessels (ESV). | 2.1 Establishment of a database on the procedures for the use of ESV. | 2.1 Update the technical and regulatory procedures on the basis of the results of the studies of the ITU-R. 2.2 Develop possible | 2.1 Update the technical and regulatory procedures on the basis of the results of the studies of the ITU-R. 2.2 Develop possible | 2.1 Update the technical and regulatory procedures on the basis of the results of the studies of the ITU-R. 2.2 Develop possible |

| ACTIVITY | 2007 | 2008 | 2009 | 2010 |
|--|---|---|---|---|
| | | Recommendations that would improve the use of ESV, if necessary. | Recommendations that would improve the use of ESV, if necessary. 2.3 Maintenance of the database and possible update. | Recommendations that would improve the use of ESV, if necessary. 2.3 Maintenance of the database and possible update. |
| 3. Implementation of regulations that facilitate the deployment of satellite services. | 3.1 Update of the existing database as Administrations provide the corresponding information. | 3.1 Update of the existing database as Administrations provide the corresponding information. 3.2 Develop possible Recommendations that would facilitate the deployment of satellite services. | 3.1 Update of the existing database as Administrations provide the corresponding information. 3.2 Develop possible Recommendations that would facilitate the deployment of satellite services. | 3.1 Update of the existing database as Administrations provide the corresponding information. 3.2 Develop possible Recommendations that would facilitate the deployment of satellite services. |
| 4. Harmful interferences of unauthorized transmissions on satellite networks. | 4.1 Establish criteria between Administrations and satellite operators to deal with harmful unauthorized interferences. | 4.1 Establishment of a regional methodology to deal with harmful unauthorized interferences to be used by CITEL member Administrations. 4.2 Offer courses on interferences through Regional Centers of CITEL to the technical and regulatory staff that oversees and operates terrestrial transmission stations. | 4.1 Continue joint work between satellite operators and Administrations on the topic. 4.2 Maintenance and update of the established methodology. | 4.1 Continue joint work between satellite operators and Administrations on the topic. 4.2 Maintenance and update of the established methodology |
| 5. Usage, operation, and applications of the C-band by CITEL member Administrations. | 5.1 Review and discussion of the topic. | 5.1 Proposals for the drafting of Resolutions and Recommendations. | 5.1 Proposals for the drafting of Resolutions and Recommendations. | 5.1 Proposals for the drafting of Resolutions and Recommendations. |
| 6. Existing data bases concerning satellite systems. | 6.1 Review and update. | 6.1 Review and update. | 6.1 Review and update. | 6.1 Review and update. |
| 7. Technical and regulatory issues of Appendix 30B (AP30B). | | 7.1 Establish the necessary strategies and | 7.1 Coordinating the organization of training courses on | 7.1 Coordinating the organization of training courses on |

| ACTIVITY | 2007 | 2008 | 2009 | 2010 |
|--|------|---|---|---|
| | | coordination for the CITELE Administrations to design and implement training programs on the application of AP30B of the ITU Radio Regulations. | the application of the AP30B, especially for authorities and official in charge of the policies and regulations of the telecommunication sector of the CITELE Member States. 7.2 Submittal of information contributions on the application of the AP30B and on its progress to the relevant Study Groups at the ITU-R. | the application of the AP30B, especially for authorities and official in charge of the policies and regulations of the telecommunication sector of the CITELE Member States. 7.2 Submittal of information contributions on the application of the AP30B and on its progress to the relevant Study Groups at the ITU-R. |
| 8. The use of satellite systems for public protection and disaster relief (PPDR) operations. | | | 8.1 Review relevant information concerning the use of satellite systems to provide PPDR communications. 8.2 Develop a Recommendation(s) on the use of satellite systems for PPDR. | 8.1 Review relevant information concerning the use of satellite systems PPDR communications. 8.2 Develop a Recommendation(s) on the use of satellite systems for PPDR. |
| 9. The use of Integrated Systems as an element of emerging Next Generation Networks (NGN). | | | 9.1 Review relevant information concerning the use of Integrated Systems as an element of emerging NGN. 9.2 Develop a Recommendation(s) on the use of Integrated Systems as an element of emerging NGN. | 9.1 Review relevant information concerning the use of Integrated Systems as an element of emerging NGN. 9.2 Develop a Recommendation(s) on the use of Integrated Systems as an element of emerging NGN. |

Work plan to address interference harmful to satellite systems in the region

| APPROVED ACTIVITY | PROPOSED ACTIONS TO BE CARRIED OUT |
|--|--|
| <p>1 Updated registry of earth stations. Each Administration requires an up to date registry of all the transmitting earth stations that operate within its national territory, including all relevant information such as geographical coordinates, address, antennas, satellites to which they transmit operational frequencies, etc.</p> | <p>1.1 Encourage Administrations to have this Register. 1.2 Promote the updating of the Register. 1.3 Promote the public availability of the Register. 1.4 Propose an appropriate Register format for Administrations that do not have one. 1.5 Promote to create a earth station data base for the control of the Administrations. 1.6 In the case of earth stations subject to block or generic licensing, encourage CITEL Administrations to maintain a register themselves or via their licensed operators.</p> |
| <p>2 Training of the technical staff and staff that regulates, supervises or operates of transmitting earth stations. It is essential that the operational staff of the earth stations receive training to operate the equipment, which must be recognized by the Administration.</p> | <p>2.1. Design curricula for seminars or courses. 2.2. Select among the available courses of satellite operator members of PCC.II. 2.3. Offer them through the CITEL's Regional Training Centers. 2.4. Promote the dissemination of such courses.</p> |
| <p>3. Dissemination of examples of best practices for eliminating unauthorized transmissions, including the actions that have been applied. It is suggested that a dissemination system be established among CITEL Administrations in order to discourage attempts to transmit without authorization..</p> | <p>3.1 Create a space in CITEL's website to disseminate this information. 3.2 Encourage CITEL Administrations to consider input from Satellite Users Interference Reduction Group (SUIRG), and take appropriate actions to remedy interference problems.</p> |
| <p>4. Verification of transmissions. It may be necessary that the relevant CITEL Administrations carry out verifications of transmissions without advance warning, in order to ensure that earth stations within their territories are transmitting according to the frequency assignment plan.</p> | <p>4.1 Encourage CITEL Administrations to develop monitoring mechanism, including methods and tools needed to carry out this action when required.. 4.2 Invite participation by satellite operators in this process.</p> |
| <p>5. Characterize cases of unauthorized transmissions that may occur. It is necessary to define what would be considered as an unauthorized</p> | <p>5.1 Development of a glossary of concepts and definitions agreed among the countries of CITEL.</p> |

| APPROVED ACTIVITY | PROPOSED ACTIONS TO BE CARRIED OUT |
|--|---|
| transmission. Basically, the suggestion is apply this definition to any transmission occurring outside the authorized frequencies; however, it should also be noted that accidental transmissions may occur due to human error or equipment failure, or intentional transmissions. | |
| 6. Unify criteria at the regional level. Apply the same criteria within the CITEL Administrations to characterize unauthorized transmissions. | 6.1 Development of a glossary of concepts and definitions agreed among the countries of CITEL. |
| 7. Establish working procedures with the satellite operators involved. It is essential that satellite operators work in coordination with the corresponding Administration of each country, given that they cannot take action on their own account to resolve cases of harmful interference and that such a search may entail risks. | 7.1 Development of a method for participation by satellite operators, Administrations, and users in efforts made in coordination with entities involved in the interference detection and elimination process. 7.2 Method should also include quantification of costs and damages caused by interference, and sanctions therefore. |

WORKING GROUP ON BROADCASTING

1. AUTHORITIES

Chair: United States of America
 Vice Chairs: Brazil, Peru

2. TERMS OF REFERENCE

2.1 To identify the status of radio frequency use, particularly in Region 2, and to develop Resolutions and Recommendations for harmonization of the use of the broadcasting spectrum (radio and television).

2.2 To follow the activities being carried out and studies being conducted within the ITU, especially in the ITU-R and ITU-T Sectors, recognizing the complementary roles of said Sectors, in order to be able to develop views on broadcasting topics, including provisions for consideration in the ITU Study Groups and Working Parties.

2.3 To obtain and disseminate information regarding new transmission and access technologies in broadcasting services in Region 2.

2.4 To encourage the Region 2 Administrations to implement digital technologies related directly and indirectly to broadcasting services.

3. OBJECTIVES

3.1 To promote the introduction of new technologies in broadcasting.

3.2 To promote among the Member States the coordination and harmonization of procedures, standards, and operational aspects related to broadcasting networks and services, in keeping with each country's socioeconomic, technological, and training needs.

3.3 To promote participation by the Administrations and Associate Members in preparing Resolutions, Recommendations, and Decisions pertaining to broadcasting-related matters, in accordance with the mandate of the Working Group.

4. STRATEGIC PRIORITY

4.1 To promote, inform, and assist Administrations at all stages of transitioning to digital broadcasting.

4.2 To promote active participation by Administrations of CITEL in this process.

5. LINES OF ACTION

5.1 To promote participation by Administrations and Associate Members in the meetings of PCC.II.

5.2 To promote the presentation of documents, reports, and other contributions by Administrations and Associate Members in the meetings of PCC.II.

5.3 To promote information exchange regarding matters of interest to the Working Group, meeting the needs of Administrations.

5.4 To invite the Administrations to inform PCC.II of the outcomes of international forums or events related to sector interests.

5.5 To urge the broadcasting industry to participate actively in the work of CITEL.

5.6 To make use of the services of experts to contribute to Sector research and development topics.

5.7 To interact with other CITEL Working Groups, especially those of PCC.II.

5.8 To carry out studies on the present and future use of frequency bands 54-72 MHz, 76-88 MHz and 174-216 MHz in region 2.

6. INDICATORS

- 6.1 Presentation of contributions.
- 6.2 Preparation and update of Implementation Guides for Digital Terrestrial Television and Digital Terrestrial Radio Broadcasting.
- 6.3 Discussion groups in CITEL's Electronic Forum.
- 6.4 Forwarding to and receipt of documents from other PCC.II Working Groups.
- 6.5 Holding of meetings to evaluate contributions and/or proposals.
- 6.6 Resolutions and Recommendations proposed.

7. ACTIVITIES

The activities to be carried out by the Group in the period are those emanating from proposals of Administrations and Associate Members. Topics will vary in keeping with needs of Administrations.

Goals

| OUTPUT | 2006 | 2007 | 2008 | 2009 | 2010 |
|---|-------------|-------------|-------------|-------------|-------------|
| Proposals and/or contributions | 38 | 40 | 40 | 40 | 40 |
| Digital Terrestrial Television (DTT) Broadcasting implementation guide (development/update) | (1/2) | (1/2) | (1/2) | (1/2) | (1/2) |
| Digital Terrestrial Radio (DTR) Broadcasting implementation guide (development/update) | (0/0) | (1/0) | (1/1) | (1/2) | (1/2) |
| Groups in the electronic forum | 1 | 2 | 2 | 2 | 2 |
| Meetings | 2 | 2 | 2 | 2 | 2 |
| Recommendations | 0 | 1 | 2 | 1 | 2 |
| Resolutions | 0 | 0 | 1 | 0 | 1 |

RAPPORTEUR GROUP ON THE TECHNICAL AND REGULATORY ASPECTS RELATED TO THE EFFECTS OF ELECTROMAGNETIC NON-IONIZING EMISSIONS.

1. AUTHORITIES

Rapporteur: Argentina
 Alternate Rapporteurs: Brazil, Peru

2. TERMS OF REFERENCE

2.1 To compile the available information and regulations of the following organizations with respect to the effects of non-ionizing radiation and the established technical standards:

- 2.1.1 WHO (World Health Organization);
- 2.1.2 PAHO (Pan American Health Organization);
- 2.1.3 ITU (International Telecommunication Union);
- 2.1.4 ICNIRP (International Commission on Non-Ionizing Radiation Protection);
- 2.1.5 MMF (Mobile Manufacturers Forum);
- 2.1.6 IEEE (Institute of Electrical and Electronics Engineers);
- 2.1.7 IEC (International Electrotechnical Commission).

2.2 To do a compilation of the regulations in force on electromagnetic radiation in the various Administrations of the Region and other Regions.

2.3 To consider the AHCIET Study on legislative rules and Control Procedures on radio electric emissions in Latin America, in view of the significant data contained therein.

2.4 To identify additional sources of information and submit them to the consideration of PCC.II.

2.5 To post the final report in the CITEL Webpage.

3. OBJECTIVES

3.1 To spread the information on non-ionizing radiations, the technical and regulatory aspects in the Americas Region, to: facilitate the scientific knowledge on the matter, disseminate the regional and world standards on the matter, facilitate the deployment of wireless network while protecting health and respecting the environment.

3.2 To be available to those Administrations that require: cooperation for the development of their corresponding standards and/or dissemination of scientific information through meetings and seminars.

4. STRATEGIC PRIORITY

4.1 Promote and study the technical assistance related to non-ionizing radiations, under the agreements entered into by and between the corresponding countries, on the adequate standards for protecting health and respecting the environment, facilitating the deployment of radioelectric networks and taking into account that wireless technologies are among the media that facilitate universal access to the Information and Communication Technologies (ICTs) and are a fundamental tool for bridging the digital divide.

4.2 Develop reference guidelines to assist Member States in achieving their goals and taking on studies to allow the orderly development of telecommunication networks by exchanging experiences, information and knowledge between the governments and the private sector, while maintaining ongoing communications with the various international agencies, and requesting the cooperation of world or regional governmental organizations.

5. LINES OF ACTION

5.1 To call for the participation and submittal of contributions by the Administrations and Associate Members at the meetings of the PCC.II.

5.2 In conjunction with the Chair of PCC.II and the Secretariat, to make the necessary contact with Regional Organizations and Specialized Organizations in order to continue the compilation and the permanent updating of the information on the works carried out and presented on the “CD RNI” and “DVD RNI” through CITELE’s website and help its dissemination.

5.3 To foster the participation of the Administrations and Associate Members at the PCC.II fora that might be created, to enrich and discuss matters related to standards dealing with non-ionizing radiations and their control to preserve health and the environment.

5.4 To remain available to those Administrations that require its collaboration to develop their respective regulations.

5.5 To take part in national, regional and international seminars related to non-ionizing radiations submitting the works carried out by CITELE in the matter.

5.6 To study the systems to control non-ionizing radiations at a world level.

5.7 To discuss broadly on the matters appointed to the group so as to objectively include in their results the various contributions made during their activities.

6. INDICATORS

6.1 Distribution of the DVD, which includes the works carried out, and its posting on the Web site. (2008: XI Meeting of the PCC.II.)

6.2 Taking part in at least one annual dissemination seminar. (2008: seminars of the ICNIRP, ITU Centre of Excellence.)

6.3 Assessment on control systems on non-ionizing radiations. (2008 and 2009: XII, XIII and XIV Meeting of the PCC.II.)

6.4 Report (CD): Non-ionizing radiations monitoring systems. (2008: Presentation of the CD, XII Meeting of the PCC.II, 2009.)

6.5 Dissemination of the works carried out CD Monitoring (2009 to 2010: until XV Meeting of the PCC.II).

6.6 Summary of the standards reached and worked carried out (2010: XVI meeting of the PCC.II).

6.7 Recommendations to the Administrations on monitoring and control. (2009 to 2010: XIII and XV Meeting of the PCC.II.)

7. ACTIVITIES

The activities to be performed by the group during the period are those that arise from the proposals issued by the Administrations and the Associate Members. The subjects shall vary according to the needs of the Administrations. The following activities are of high importance:

1. Distribution of the DVD: Technical and Regulatory Aspects Related to Non-Ionizing Radiations
2. Taking part in Seminars/Workshops of ICNIRP
3. Taking part in ITU Seminars.
4. Assessment on non-ionizing radiations monitoring systems at a world level.
5. Study on the visual impact and its impact on the population's feeling of concern about non-ionizing radiations.
6. CD on non-ionizing radiations monitoring
7. Recommendations to the Administrations on monitoring.

IV. RECOMMENDATIONS

PCC.II/REC. 24 (XII-08) ¹⁰

GUIDELINES TO FACILITATE THE INTRODUCTION AND DEPLOYMENT IN THE AMERICAS OF INTEGRATED SYSTEMS OPERATING IN THE 1-3 GHz RANGE

The XI Meeting of Permanent Consultative Committee II: Radiocommunications including Broadcasting,

CONSIDERING:

- a) That Integrated Systems refer to systems employing mobile-satellite systems (MSS) and terrestrial components where the ground component is complementary to and operates as part of the MSS system and, together with the satellite component, provides an integrated service offering;
- b) That in such systems, the ground component is controlled by the satellite resource and network management system. Further, the ground component uses the same designated portions of the frequency band as the associated operational MSS system.
- c) That Recommendation **206** (WRC-07) considers the possible use of integrated mobile- satellite service and ground component systems in some frequency bands identified for the satellite component of International Mobile Telecommunications;
- d) That Recommendation **206** (WRC-07) considers that MSS systems are suitable for public protection and disaster relief communications, as stated in Resolution **646** (WRC-03);

¹⁰ CCP.II-RADIO/doc. 1812/08 rev.3 cor.1

- e) That Integrated System can contribute substantially to bridging the digital divide in geographical terms, by combining coverage of vast rural areas and that of urban areas and facilitating the provision of telephony and data service;
- f) That the ITU-T has undertaken studies and developed a vision for the concept of Next Generation Networks and that Integrated Systems have features suitable for such networks,

FURTHER CONSIDERING:

- a) That technology has evolved such that voice and data services can be provided over a range of delivery platforms, including both wireless (satellite, PCS, cellular, etc.) and wireline platforms;
- b) That methods of delivery of such voice and data services should be transparent to consumers;
- c) That the system architecture and network control of Integrated Systems is designed to integrate, seamlessly and transparently, the operation of the system's terrestrial wireless ground component within the system's MSS component, which can enhance coverage and interoperability;
- d) That the ITU-R has not performed studies on sharing, technical or regulatory issues with regard to Integrated Systems, but that rules providing a regulatory, technical and/or operational framework to permit introduction and deployment of Integrated Systems within the 1-3 GHz range are already in place in the United States of America, Canada, and, for the 2 GHz MSS band, in Europe;
- e) That Europe is undertaking studies on sharing, technical and regulatory issues with regard to Integrated Systems for Mobile satellite systems operating or proposed to be operating in the bands 1518-1525 MHz, 1525-1544 MHz, 1545-1559 MHz, 1610-1626.5 MHz, 1626.5-1645.5MHz, 1646.5-1660.5MHz, 1668-1675MHz and 2483.5-2500 MHz;
- f) That it is desirable to examine at the earliest opportunity within PCC.II suitable regulatory, technical and operational frameworks for national and regional implementation that may accommodate and further enable the global deployment of Integrated Systems in the 1-3 GHz MSS frequency bands, considering that several systems are currently under active construction and due for deployment in the near future,

RECOGNIZING:

- a) That Recommendation **206** (WRC-07) invites the ITU-R to conduct studies, as appropriate, taking into account deployed and planned Integrated Systems;
- b) That Recommendation **206** (WRC-07) recognizes the need to protect MSS, RNSS and RAS from harmful interference; and that other services and systems, including AMS(R)S, GMDSS, and MS need to be protected from harmful interference,

NOTING:

- a) That in the United States, Authorizations to deploy Integrated Systems have been issued, which include adoption of additional measures to protect other services and systems mentioned in *Recognizing* b) above;

- b) That in the Americas, CITEL Member States' regulatory regimes vary regarding the use of the 1-3 GHz MSS bands ;
- c) That some CITEL Member States may wish to adopt new rules to establish regulatory, technical and operational frameworks to enable the introduction and deployment of Integrated Systems within their respective territories, while taking account of the need to co-exist with, and provide protection from harmful interference to other services and systems;
- d) That MSS networks are coordinated pursuant to the ITU Radio Regulations,

RECOMMENDS:

1. That CITEL Member States consider the elements of the Annex when developing their regulations for Integrated Systems, while protecting other services and systems from harmful interference.
2. That CITEL Member States should consider, where necessary, appropriate measures to protect other services and systems from harmful interference when authorizing Integrated Systems.
3. That CITEL Member States consider updating the Annex to this Recommendation should other relevant information become available in the future.

ANNEX TO RECOMMENDATION PCC.II/REC. 24 (XII-08)

Guidelines to Facilitate the Deployment of Integrated Systems in the Americas

- Definition of Integrated Systems
 - Integrated Systems employ an integrated MSS and ground infrastructure to deliver end user services.
 - The ground component operates as an integral part of the MSS system, and can only be operated in conjunction with, and integral to, its associated MSS system and network.
 - The combined MSS/ground system provides an integrated service offering.
 - The ground component is controlled by the *satellite* resource and network management systems.
 - The ground component uses the same portions of the frequency bands that are coordinated for its associated MSS system.
- Integrated Systems Regulatory Matters
 - Administrations may consider granting an Integrated System the same status as its MSS component if:
 - The Integrated System ground component can only be operated in conjunction with, and integral to, its associated MSS system and network and within the geographical coverage area of the MSS system.
 - The ground component is controlled by the satellite resource and network management systems.

- The combined space/ground system can provide an integrated service offering to end users using common handset capable of communicating with either the satellite or the terrestrial transmission path.
- Administrations should review their regulations to ensure the existing types of authorization are suitable for Integrated System.
- Protection of other Services and Systems
 - Administrations should ensure by adopting necessary technical measures in their telecommunication regulatory frameworks that Integrated Systems presented for their approval are designed and operated in a manner that prevents harmful interference to other services operating according to the ITU Radio Regulations for which the host MSS system would be required to protect.
 - Administrations should apply general *service level* requirements¹¹ as a starting point for allowing Integrated Systems in their Administrations.
 - Administrations should ensure that MSS operator developed *system level/operational level* parameters,¹² based on particular system characteristics, but that may be different from *service level* protection parameters:
 - Follow good practices, relevant ITU-R or other criteria (e.g., additional measures adopted by some Administrations) to ensure that the introduction of terrestrial operations within an integrated systems do not cause harmful interference to other services, including, MSS, RNSS, GMDSS and AMS(R)S services;

¹¹ Service level requirements are general requirements that Administrations would apply to all Integrated Systems and the relevant MSS frequency bands to determine initial compatibility within their intended operating environments.

¹² System/operational level parameters are those parameters refined by the operating parties, and approved by Administrations, to provide operational flexibility while maintaining compatibility and are specific to an integrated system within its frequency band of operation.

V. DECISIONS

The XII Meeting of the Permanent Consultative Committee II: Radiocommunication including Broadcasting,

DECIDES:

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| PCC.II/DEC.65 (XII-08) ¹³ | To send the survey regarding the use of cell phone blockers that is in document CCP.II-RADIO/doc. 1741/08 to the Member States of CITEL requesting them to send their answers before March 2, 2009 to Mr. Marco de Souza Oliveira (Chair of the Working Group on Terrestrial Fixed and Mobile Radiocommunication Services.) (marcos@anatel.gov.br) with a copy to the Secretariat of CITEL in order to elaborate a Report on the issue for the next meeting. |
| PCC.II/DEC.66 (XII-08) ¹⁴ | To send the questionnaire on the use of UWB technology included in the CCP.II-RADIO/doc. 1783/08 document to CITEL State Members requesting answers be sent to Mr. Germán Campos of the Administration of Venezuela (gcampos@conatel.gob.ve) with a copy to CITEL Secretariat before March 2, 2009. |
| PCC.II/DEC.67 (XII-08) ¹⁵ | To participate in the International Workshop organized by ICNIRP (International Radiation Protection Association) that will be held in Rio de Janeiro, Brazil from October 14 to 17, 2008 through the Rapporteur on Technical and Regulatory Aspects Related to the Effects of Electromagnetic Non-Ionizing Emissions, who will describe the activities of the CITEL's PCC.II in this area. PCC.II will not use its budget to support this participation. |

¹³ CCP.II-RADIO/doc. 1822/08

¹⁴ CCP.II-RADIO/doc. 1823/08

¹⁵ CCP.II-RADIO/doc. 1808/08

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| <p>PCC.II/DEC.68 (XII-08) ¹⁶</p> | <p>To instruct the Executive Secretary to circulate document CCP.II-RADIO/doc. 1813/08 (which is herein annexed) among the Member States. Said document contains a Draft Recommendation on Technical and Regulatory Aspects of Electromagnetic Non-Ionizing Emissions, which requires to be studied so that resulting comments are subsequently sent to the Group's Rapporteur, Mr. Héctor Carril (hcarril@secom.gov.ar), who will submit a report to the XIII Meeting of CITEL's PCC.II.</p> <p style="text-align: center;">ANNEX TO DECISION PCC.II/DEC.68 (XII-08)</p> <p style="text-align: center;">DRAFT RECOMMENDATION PCC.I/REC. XXX (XII-08)</p> <p style="text-align: center;">TECHNICAL AND REGULATORY ASPECTS RELATIVE TO THE EFFECTS OF ELECTROMAGNETIC NON-IONIZING EMISSIONS</p> <p>The XII Meeting of the Permanent Consultative Committee II: Radiocommunications including Broadcasting,</p> <p>HAVING SEEN:</p> <p>a) That in virtue of permanent evolution of technologies used in wireless communications, the need of installation of antennas and its associated elements has increased, especially in the dense inhabited areas, and</p> <p>b) That general population has expressed concern on the possible effects of non-ionizing emissions effects, especially with the proliferation of these antennas,</p> <p>CONSIDERING:</p> <p>a) That in many localities this concern prevents the deployment of wireless communication systems;</p> <p>b) That it is responsibility of telecommunication authorities to guarantee compliance of the standards relative to radio emissions and Health and Environment Protection;</p> |
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¹⁶ CCP.II-RADIO/doc. 1825/08 rev.1

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| | <p>c) That it is important for the population as a whole to be properly informed on the regulations in force relative to electromagnetic non-ionizing emissions;</p> <p>d) That the Administrations of the Americas have interest and need to have all available scientific information, and most of them have developed their own regulations.</p> <p>e) That CITEL has recommended in its Recommendation PCC.II/REC. 15 (VI-05) “To the country members that have not yet developed an specific regulation about the topic, that when they perform the same, follow the recommendations of the Health World Organization, the International Telecommunication Union, in its Recommendation ITU-T K-52, taking also into account the Recommendations of ICNIRP as appropriate.”</p> <p>RECOGNIZING:</p> <p>a) That in some countries of the American Region where Regulations have been developed it is observed the need to increase the spreading of the regulation and its further development;</p> <p>b) That the PCC.II has observed that in countries that have developed standards establishing, among other issues, the maximum limits of radiation there are still problems in areas where antennas have been installed;</p> <p>c) That population in general requests to be informed if the established standards are strictly enforced;</p> <p>d) That the PCC.II has studied how countries outside the region have solved this social concern;</p> <p>e) That among the countries studied are Spain, Greece, Egypt, Switzerland, Italy;</p> |
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| | <p>f) That these countries have found help to solve the social concern issue in the use of a control system composed by point measures, radiation level dynamic maps and continuous monitoring systems.</p> <p>g) That additionally the results are widely publicized through advertising campaigns and they are available for public use on the Internet;</p> <p>h) That the analyzed countries have notably reduced the social alert on the deployment of radio equipment installation;</p> <p>i) That in the Region of the Americas, Brazil (CCP.II-RADIO/doc. 1753/08) and Canada (CCP.II-RADIO/doc.1720/08) have started to implement these measurement systems.</p> <p>RECOMMENDS:</p> <p>1. To the country members that have not yet developed a specific regulation on the topic, to follow the recommendations of the World Health Organization when developing such regulations and to adopt the standards harmonized with the international limits of the ICNIRP and the recommendations developed by the International Telecommunication Union in its Recommendation ITU-T K-52.</p> <p>2. To the countries that developed standards that they establish compliance control methods for maximum NIR levels using dynamic Maps measurement systems and continuous monitoring systems in the areas of greater social concern, providing the obtained information for public access on governmental pages in Internet.</p> |
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| <p>PCC.II/DEC.69 (XII-08) ¹⁷</p> | <ol style="list-style-type: none"> 1. To establish a Sub Working Group to study interferences coming from aircraft Radio altimeters whose terms of reference are indicated in the Annex. 2. To appoint Mr. Héctor Fortis from the Administration of Mexico as Coordinator of this Sub Working Group. 3. To invite the Administrations to participate in, and collaborate with, this Subgroup. 4. That the Sub Working Group will work by correspondence as much as possible. <p style="text-align: center;">ANNEX TO DECISION PCC.II/DEC.69 (XII-08)</p> <p style="text-align: center;">Terms of Reference:</p> <ol style="list-style-type: none"> 1) To provide information to document cases of interference coming from Radio altimeters. 2) To compile and exchange information on mechanisms for mitigating interference coming from Radio altimeters between CITEL Administrations and Associated Members. 3) To contact Aeronautical Agencies to document Radio altimeter operation and compliance with the regulations applying to equipment calibration. 4) To report on the advances made at every PCC.II meeting. |
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¹⁷ CCP.II-RADIO/doc. 1816/08 rev.1

| PCC.II/DEC.70 (XII-08) ¹⁸ | <p>To invite the Administrations to submit to the XIII Meeting of the PCC.II:</p> <p>a) The current specific use of the 54-72 MHz / 76-88 MHz / 174-216 MHz bands in the format shown below:</p> <table><tr><th><i>Administration</i></th><th><i>Frequencies</i></th><th><i>Current use</i></th></tr><tr><td></td><td>54-72 MHz</td><td></td></tr><tr><td></td><td>76-88 MHz</td><td></td></tr><tr><td></td><td>174-216 MHz</td><td></td></tr></table> <p>b) The experiences gathered in their search for viable resolutions to prevent co-channel and adjacent channel interferences, with a view to guaranteeing an efficient use of the radio spectrum in the aforementioned VHF bands and the appropriate protection of the existing broadcasting service.</p> <p>c) For those Administrations that do not plan to use these bands for analog or digital television, what are their radio spectrum requirements for current and future services that could be implemented on these bands, with particular emphasis on broadcasting services.</p> | <i>Administration</i> | <i>Frequencies</i> | <i>Current use</i> | | 54-72 MHz | | | 76-88 MHz | | | 174-216 MHz | |
|---|--|-----------------------|--------------------|--------------------|--|-----------|--|--|-----------|--|--|-------------|--|
| <i>Administration</i> | <i>Frequencies</i> | <i>Current use</i> | | | | | | | | | | | |
| | 54-72 MHz | | | | | | | | | | | | |
| | 76-88 MHz | | | | | | | | | | | | |
| | 174-216 MHz | | | | | | | | | | | | |
| PCC.II/DEC.71 (XII-08) ¹⁹ | <p>To instruct the Executive Secretary:</p> <p>1. To send the CITEL Member States the document CCP.II-RADIO/doc. 1807/08 comprising a compilation of current regulations of various CITEL countries in order to issue generic or block licensing, such document was the result of the contributions made by some CITEL countries that have this regulation.</p> <p>2. To invite the rest of Member States of CITEL that have this kind of regulation to provide information to be included in the referred document.</p> | | | | | | | | | | | | |
| PCC.II/DEC.72 (XII-08) ²⁰ | <p>To request Administrations to send feedback on the attachments 1 and 2 of document CCP.II-RADIO/doc. 1694/08 that deals with studies to improve the international spectrum regulatory framework (Agenda Item 1.2), at or before the 28th February 2009 to Ms. Chantal Davis (davis.chantal@ic.gc.ca) with a copy to the Secretariat of CITEL.</p> | | | | | | | | | | | | |

¹⁸ CCP.II-RADIO/doc. 1814/08 rev.1

¹⁹ CCP.II-RADIO/doc. 1809/08

²⁰ CCP.II-RADIO/doc. 1831/08

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| PCC.II/DEC.73 (XII-08) ²¹ | <p>The CITEL Secretariat is kindly requested to:</p> <ol style="list-style-type: none"> 1. Distribute document CCP.II-RADIO/doc. 1806/08 rev.2, which contains the draft resolution “Preparation and Presentation of Inter-American Proposals for the World Radiocommunication Conference 2011”; 2. Send this document to the OAS Secretariat for Legal Affairs for its evaluation. |
| PCC.II/DEC.74 (XII-08) ²² | <ol style="list-style-type: none"> 1. To create a discussion group in the electronic forum of CITEL to follow the activities of the ITU that deal with emergency telecommunications, particularly on the use of radio communication systems, and to designate Ms. Diana Tomimura of the Administration of Brazil (dianatomimura@anatel.gov.br) as the coordinator. The coordinator will report to the Working Group on Terrestrial Fixed and Mobile Radiocommunication Services at CITEL PCC.II on the participation of CITEL Administrations in this discussion group 2. To remind Administrations of the importance of sending their national information to the ITU-R when requested to do so via circular letters CR 281 and CR 288 (http://www.itu.int/ITU-R/index.asp?category=information&rlink=res647&lang=en). 3. To instruct the Secretariat of CITEL to: <ol style="list-style-type: none"> a. To notify Member States of this decision b. To inform PCC.I of this decision |
| PCC.II/DEC.75 (XII-08) ²³ | <ol style="list-style-type: none"> 1. To approve the content of the presentation “Views of CITEL PCC.II on the requirements for IMT Systems” (document CCP.II-RADIO/doc. 1689/08), to be delivered by the CITEL PCC.II IMT Coordinator, Mr. Jose Costa, at the ITU-R Workshop on IMT-ADVANCED (7 October, Seoul, Republic of South Korea); 2. To request the Executive Secretary of CITEL to forward a copy of the presentation to the Administrations and associate members of PCC.II. |
| PCC.II/DEC.76 (XII-08) ²⁴ | To request members of CITEL to develop and submit input contributions to the next meeting of PCC.II dealing with satellite systems, including Integrated Systems, in relation to Public Protection and Disaster Relief (PPDR) in the Americas, as well as how Integrated Systems could be an important element of Next Generation Networks (NGN). |

²¹ CCP.II-RADIO/doc. 1840/08
²² CCP.II-RADIO/doc. 1821/08 rev.1
²³ CCP.II-RADIO/doc. 1829/08
²⁴ CCP.II-RADIO/doc. 1817/08 rev.1

VI. LIST OF BASIC DOCUMENTS

Summary Minutes of the Inaugural Session and the
First Plenary Session:

CCP.II-RADIO/doc. 1810/08 rev.1

Summary Minutes of the Second Plenary Session:

CCP.II-RADIO/doc. 1837/08 rev.1

Summary Minutes of the Third Plenary Session
and Closing Session:

CCP.II-RADIO/doc. 1838/08

List of Documents:

CCP.II-RADIO/doc. 1674/08 rev.3

List of Participants:

CCP.II-RADIO/doc. 1675/08

Final Report for the Meeting

CCP.II-RADIO/doc. 1839/08 rev.1