FINAL REPORT

(Item on the Agenda: 7)

(Document submitted by the Drafting Group)

INDEX

FINAL REPORT

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

The XIII Meeting of the Permanent Consultative Committee II: Radiocommunications including Broadcasting was held in Ottawa, Canada, June 2 to 5, 2009.

I. AGENDA[1]

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.

II.   AUTHORITIES OF THE MEETING

Acting Chair: Mr. Héctor Budé (Uruguay)

Executive Secretary: Mr. Clovis Baptista (OAS)

Drafting Group:
Chair   Ms. Mélanie Potvin (Canada)
Members   Mr. Jesús Banda (Mexico)
                                         Mr. Benito G. Luaces (United States)
                                         Mr. Brandon Mitchell (United States)

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[1] CCP.II-RADIO/doc. 1843/08

III.   RESOLUTIONS

PCC.II/RES. 57 (XIII-09) [2]

SEMINAR ON SPECTRUM REQUIREMENTS FOR BROADBAND DEPLOYMENT

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

CONSIDERING:

a)   That most Member States have or are considering plans to accelerate the deployment of broadband services in their countries;

b)   That the Permanent Consultative Committees of CITEL have undertaken efforts to schedule seminars on a regular basis on a wide variety of topics in the interest of information dissemination;

c)   That the Declaration of the Fifth Summit of the Americas encouraged countries to promote sustainable economic development by facilitating information and communications technologies and communications infrastructure;

d)   That one of the mandates of the PCC.II is to promote the development and implementation of modern technologies and new radiocommunications services, specifically their technical and operational aspects, to meet the evolving needs of Member States;

e)   That the Declaration of Principles and Plan of Action for the Americas adopted by the Meeting of Senior Telecommunication Officials in September, 1996 highlighted the need to facilitate the dissemination of information on important developments in the telecommunication environment among the countries of the Region; and

f)   That effective policies to reduce the digital divide in members' countries is consistent with the goals of the Millennium Declaration, the Agenda for Connectivity in the Americas and the Plan of Action of Quito, the Declaration of the OAS General Assembly held in Santo Domingo, Dominican Republic in 2006 on 'Good Governance and Development of the Knowledge-Based Society' and Strategy for the Information Society in Latin America and the Caribbean (eLAC) 2010 in the San Salvador Commitment of 2008,

RECOGNIZING:

a)   The usefulness of seminars as an effective mechanism to focus the attention on important current topics and raise the level of understanding on them;

b)   That administrations and other organizations are continuously seeking information on how to best facilitate the deployment of broadband in their countries;

c)   That it is advantageous to share information among CITEL's Member States, Associate Members and Permanent Observers to the OAS; and

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[2] CCP.II-RADIO/doc. 1999/09 rev.1

d)   That the information presented in CITEL seminars constitute an important background and reference for other International and Regional Organizations,

RESOLVES:

1.   To hold a Seminar on spectrum requirements for broadband deployment in the Member States of CITEL particularly with regards to regulatory methods that allow to accelerate the deployment of broadband in rural and underserved areas.

2.   To hold the Seminar pursuant to Resolution PCC.III/RES.86 (XII-99), entitled "Procedures for the Organization of Seminars," in the afternoon of November 9, 2009 prior to the XIV meeting of the PCC.II, noting in particular that the Seminar would be held at no cost to CITEL.

3.   To invite experts on spectrum management to take part in making presentations at the Seminar, and to invite all participants of the Seminar to exchange information on their experiences with the issues discussed.

4.   To request the CITEL Member States and Associate Members to share information with their experience and research on the current policies on spectrum requirements for broadband deployment including spectrum aggregation and impact of spectrum caps.

5.   To set a maximum duration of one half day for this Seminar (see the draft agenda).

6.   To appoint Mr. Erasmo Rojas of 3G Americas as the coordinator of the Seminar.

7.   To request the Member States, Associate Members, and Permanent Observers of CITEL interested in participating in the Seminar to contact the coordinator of the Seminar.

ANNEX TO RESOLUTION PCC.II/RES. 57 (XIII-09)

**SEMINAR ON SPECTRUM REQUIREMENTS FOR BROADBAND DEPLOYMENT
DRAFT AGENDA**

Registration
Introductory Remarks   speaker: to be determined
Status of broadband deployment   speakers: regulators, consulting firm
Market Analysis   speakers: operators
Mobile broadband spectrum requirements   speakers: equipment suppliers
Conclusions   speaker: seminar coordinator

PCC.II/RES. 58 (XIII-09) [3]

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

The XIII 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 International Telecommunication Union (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 XV PCC.II Meeting.

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.

4.   To revoke Resolution PCC.II /RES.54 (XII-08).

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[3] CCP.II-RADIO/doc. 2015/08 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. 59 (XIII-09) [4]

PCC.II WORK PLAN FOR 2009-2010

The XIII 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. 56 (XII-08).

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[4] CCP.II-RADIO/doc. 2027/09

ANNEX TO RESOLUTION PCC.II/RES. 59 (XIII-09)

WORKING GROUP ON PREPARATION FOR REGIONAL AND WORLD COMMUNICATION CONFERENCES

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	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 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 CITEL 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 CITEL Working Groups, especially PCC.II groups.

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

5.10. To promote CITEL 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 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   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 CITEL Electronic 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; a table showing 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**
Broadband over power lines (BPL).	Broadband over power lines (BPL).	Broadband over power lines (BPL).	Broadband over power lines (BPL).	

YEAR				
2006	**2007**	**2008**	**2009**	**2010**
Re-location of the 700 MHz band.	Re-location of the 700 MHz band.	Re-location of the 700 MHz band.	Implementation of IMT in Region 2	Implementation of IMT in Region 2.
-	-	Use of bands identified for IMT in Region 2.		
-	-	Available frequencies for emergency situations.	Harmonization of available frequencies for emergency situations.	Harmonization of available frequencies for emergency situations.
-	-	-	Implementation of the Digital Dividend in the Americas.	Implementation of the Digital Dividend in the Americas.
Review and discussion involving radio frequency identification devices.	Review and discussion involving radio frequency identification devices.	Review and discussion involving radio frequency identification devices.	Analysis, review, discussion of subsequent or new issues arising from technological developments (MIMO, cognitive and intelligent radio, UWB, RFID, low power devices, etc.).	Analysis, review, discussion of subsequent or new issues arising from technological developments (MIMO, cognitive and intelligent radio, UWB RFID, low power devices, etc.).
-	Theory and application of cognitive equipment or intelligent radio.	Theory and application of cognitive equipment or intelligent radio.		
-	Application of intelligent antennas and the technique known as MIMO (Multiple Input Multiple Output).	Application of intelligent antennas and the technique known as MIMO (Multiple Input Multiple Output).		
-	Studies on the theory and application of UWB radio equipment.	Studies on the theory and application of UWB radio equipment.		
Update of PCC.II recommendation on low power radio devices.	Update of PCC.II recommendation on low power radio devices.	Update of PCC.II recommendation on low power radio devices.		

YEAR				
2006	**2007**	**2008**	**2009**	**2010**
Broadband Wireless Access (BWA) Systems.	Broadband Wireless Access (BWA) Systems.	Broadband Wireless Access (BWA) Systems.	Broadband Wireless Access (BWA) Systems including fixed and mobile service convergence.	Broadband Wireless Access (BWA) Systems including fixed and mobile service convergence.
-	Aspects of Broadband Mobility.	Aspects of Broadband Mobility.		
-	Aspects of fixed and mobile system convergence.	Aspects of fixed and mobile system convergence.		
-	-	Attributions to the radiolocation service.	Attributions to the radiolocation service.	Attributions to the radiolocation service.
RLAN on the 5 GHz band inside aircraft.	RLAN on the 5 GHz band inside aircraft.	Spectrum needs for the functioning of unmanned aircraft systems (UAS).	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).		

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 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.	2.1 Update the technical and regulatory procedures on the basis of the results of the studies of the ITU-R.	2.1 Update the technical and regulatory procedures on the basis of the results of the studies of the ITU-R.

ACTIVITY	2007	2008	2009	2010
		2.2 Develop possible Recommendations that would improve the use of ESV, if necessary.	2.2 Develop possible Recommendations that would improve the use of ESV, if necessary. 2.3 Maintenance of the database and possible update.	2.2 Develop possible 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.	4.1 Continue joint work between satellite operators and administrations on the topic. 4.2 Maintenance and update of the established methodology. 4.3 Offer courses on interferences through Regional Centers of CITEL to the technical and regulatory staff that oversees and operates earth	4.1 Continue joint work between satellite operators and administrations on the topic. 4.2 Maintenance and update of the established methodology

ACTIVITY	2007	2008	2009	2010
			transmission stations.	
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 coordination to design and implement training programs on the application of AP30B of the ITU Radio Regulations for the CITEL administrations.	7.1 Submittal of information contributions on the application of the AP30B and on its progress to the relevant Study Groups at the ITU-R.	7.1 Coordinating the organization of training courses on the application of the AP30B, especially for authorities and official in charge of the policies and regulations of the telecommunication sector of the CITEL 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	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

ACTIVITY	2007	2008	2009	2010
			satellite systems for PPDR.	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 SMS systems as an emerging element of Next Generation Networks (NGN). 9.2 Develop a Recommendation (s) on the use of integrated SMS systems as an emerging element of Next Generation Networks (NGN).	9.1 Review relevant information concerning the use of integrated SMS systems as an emerging element of Next Generation Networks (NGN). 9.2 Develop a Recommendation (s) on the use of integrated SMS systems as an emerging element of Next Generation Networks (NGN).

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

APPROVED ACTIVITY	PROPOSED ACTIONS TO BE CARRIED OUT
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.	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.
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	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.

APPROVED ACTIVITY	PROPOSED ACTIONS TO BE CARRIED OUT
operate the equipment, which must be recognized by the Administration.	2.4. Promote the dissemination of such courses.
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.	3.1 Create a space in CITEL's website to disseminate this information. 3.2 Encourage CITEL administrations to consider the information from the Satellite Users Interference Reduction Group (SUIRG).
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.	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.
5. Characterize cases of unauthorized transmissions that may occur. It is necessary to define what would be considered as an unauthorized 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.	5.1 Development of a glossary of concepts and definitions agreed among the countries of CITEL.
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	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

APPROVED ACTIVITY	PROPOSED ACTIONS TO BE CARRIED OUT
they cannot take action on their own account to resolve cases of harmful interference and that such a search may entail risks.	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
5r4
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 the Digital Terrestrial Television Broadcasting Implementation Guide 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

Activities	2010	2011	2012	2012
Share information on regulatory policies and programs governing the transition to DTTB, including the efficient use of the spectrum.	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide and the database.	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide and the database.	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide and the database.	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide and the database.
Share information on progress towards implementing DTTB in the region, including station construction, receiver availability, prices, etc.	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide and the database.	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide and the database.	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide and the database.	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide and the database.
Share latest updates and additions to recommended rules and practices for DTTB systems used in the region.	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide.	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide.	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide.	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide.
Incorporation of advanced audio and video codification and techniques to transport DTTB.	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide.	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide.	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide.	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide.
Incorporation of	1. Discussion of	1. Discussion of	1. Discussion of	1. Discussion of

Activities	2010	2011	2012	2012
mobile services and portable devices into DTTB.	proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide.	proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide. 3. Development of a possible recommendation.	proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide. 3. Development of a possible recommendation.	proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide. 3. Development of a possible recommendation.
Incorporation of interactive data and information services into DTTB.	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide.	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide.	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide.	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide.
Techniques to deliver HDTV, SDTV services and mobile services and portable devices via a single DTTB channel.	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide.	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide.	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide.	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide.
Incorporation of non-real time services and applications into DTTB.	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide.	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide.	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide.	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide.
Advanced legacy TV data services in DTT broadcasts.	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation

Activities	2010	2011	2012	2012
	Guide.	Guide.	Guide.	Guide.
Transmission measurement and compliance for DTTB.	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide. 3. Discussion of ITU-R Recommendations.	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide. 3. Discussion of ITU-R Recommendations.	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide. 3. Discussion of ITU-R Recommendations.	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide. 3. Discussion of ITU-R Recommendations.
Review of recommended practices and performance requirements for DTTB receivers.	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide.	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide.	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide.	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide.
Conversion of DTT signals for cable distribution to analog TV viewers and DTH services	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide. 3. Development of a possible recommendation.	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide. 3. Development of a possible recommendation.	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide. 3. Development of a possible recommendation.	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide. 3. Development of a possible recommendation.
Collection and updating of policies relating to the implementation of DTT.	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide.	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide.	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide.	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide.
Review of accessibility needs	1. Discussion of proposals relating	1. Discussion of proposals relating	1. Discussion of proposals relating	1. Discussion of proposals relating

Activities	2010	2011	2012	2012
and capabilities for DTTB services, such as conditional subtitling access, audio description, etc.	to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide.	to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide.	to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide.	to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide.
Review of issues related to the management of and approach to digital rights for DTTB.	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide.	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide. 3. Development of a possible Recommendation.	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide. 3. Development of a possible Recommendation.	1. Discussion of proposals relating to the subject. 2. Update the Digital Terrestrial Television Broadcasting Implementation Guide. 3. Development of a possible Recommendation.
Digital broadcasting systems evaluation and measurement.	1. Discussion of proposals relating to the subject. 2. Preparation of a Digital Broadcasting Implementation Guide 3. Development of a possible recommendation.	1. Discussion of proposals relating to the subject. 2. Preparation of a Digital Broadcasting Implementation Guide 3. Development of a possible recommendation.	1. Discussion of proposals relating to the subject. 2. Preparation of a Digital Broadcasting Implementation Guide 3. Development of a possible recommendation.	1. Discussion of proposals relating to the subject. 2. Preparation of a Digital Broadcasting Implementation Guide 3. Development of a possible recommendation.

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 CITEL'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 CITEL 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   Compilation 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 regulations 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.

PCC.II/RES. 60 (XIII-09) [5]

AGENDA, VENUE AND DATE FOR THE XIV PCC.II MEETING

The XIII Meeting of the Permanent Consultative Committee II: Radiocommunications including Broadcasting.

RESOLVES:

1.   To hold the XIV Meeting of PCC.II from November 10 to 13, 2009 in Washington, DC, United States.

2.   To approve the draft agenda for the XIV Meeting, that is attached as an Annex.

ANNEX TO RESOLUTION PCC.II/RES. 60 (XIII-09)

1.   Approval of the agenda and calendar.

2.   Appointment of the Drafting Group for the Final Report.

3.   Working methods of PCC.II.

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[5] CCP.II-RADIO/doc. 2028/09

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 XV Meeting of PCC.II.

6.   Other matters.

7.   Approval of the Final Report of the XIV Meeting.

DRAFT AGENDAS OF WORKING GROUPS

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

1.   Presentation and approval of the agenda.
2.   Working methods
3.   Reports of the spokespersons to other organization's meetings, from Regions Representatives and ITU
4.   Structure of the Working Group, identification of agenda items Coordinators and Rapporteurs and assignment of functions to Coordinators and Rapporteur.
5.   Assignment and analysis of documents to the subgroups:

5.1. SGT 1 - Maritime, aeronautical, and radiolocation issues	1.3, 1.4, 1.9, 1.10, 1.14, 1.15, 1.21
5.2. SGT 2 - Fixed, mobile, broadcasting and amateur issues	1.5, 1.8, 1.13, 1.17, 1.20, 1.23
5.3. SGT 3 - Science and satellite issues	1.6, 1.7, 1.11, 1.12, 1.16, 1.18, 1.24, 1.25, 7
5.4. SGT 4 - Future work program and other issues	1.1, 1.2, 1.19, 1.22, 2, 4, 8.1, 8.2

6.   Work plan.
7.   Timeline for WRC-11.
8.   Other matters
        8.1   Strategic Plan of CITEL.
        8.2   Indicators of CITEL Activities.

4.2   Working Group on Terrestrial Fixed and Mobile Radiocommunication Services

1.   Approval of the agenda.
2.   Project of new Recommendations:
        Broadband Power Line Communications.

White Space in broadcasting bands.
3. Update PCCII Recommendations:
   Recommendation on very low power devices.
4. Issues under discussion:
   IMT implementation in Region 2.
   Available frequencies for emergency situations.
   Implementation of digital divide in the 700 MHz band.
5. New issues:
   Broadband Wireless Access (BWA), including convergence between Fixed and Mobile Service.
   Allocation to Radiolocation Services.
   Analysis, revision and discussion of issues that appear as a result of technological development (UWB, cognitive radio, etc).
6. Working Plan.
7. Other issues.
   7.1   Introduction of new systems in the Aeronautical Mobile Service (R) – AMS(R).

4.3   Working Group on satellite systems to provide fixed and mobile services

1. Approval of the agenda.
2. General guidelines for issuing licenses for Networks of Global Mobile Personal Communications Systems (GMPCS).
3. Procedures for authorizing shipboard earth stations (ESV).
4. Implementing regulations that facilitate deployment of satellite services.
5. Harmful interference from unauthorized transmissions in satellite networks.
6. Work Plan.
7. C-band use, operation and applications by CITEL member administrations.
8. Existing databases on satellite systems.
9. Technical and regulatory aspects in Appendix 30B of the ITU's Radiocommunications Regulations.
10. Use of satellite systems for public protection and rescue operations (PPRO).
11. Use of Integrated Systems as an emerging element of Next Generation Networks (NGN).
11. Other business.

4.4   Working Group on Broadcasting

1. Opening remarks.
2. Approval of the agenda.
3. Consideration of the inputs on Digital Terrestrial Television Broadcasting, in particular related to the Digital Terrestrial Television Broadcasting Implementation Guide (CCP.II-RADIO/doc.2018/09)..
4. Analysis of the contributions related to the Digital Terrestrial Television Implementation Guide.
5. Analysis of the information supplied by the administrations on the actual and future usage in the Broadcasting TV services.
6. Analysis of the information supplied by the administrations related to the digital dividend resulting from the analog to digital television switchover.
7. Analysis of the contributions related to the Digital Sound Broadcasting in the Region.
8. Analysis of the information supplied by the administrations related to the use of "white space" in the spectrum allocated to the television service.

9.   Work Plan.
10.   Other business.

4.5   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.   Systems of measurements of NIR, report of the status of advance of the studies of the Rapporteur Group.
3.   Draft Best practices code to install antennas.
4.   Work Plan.
5.   Other business.

IV.   RECOMMENDATIONS

PCC.II/REC. 25 (XIII-09) [6]

TECHNICAL AND REGULATORY ASPECTS RELATIVE TO THE EFFECTS OF ELECTROMAGNETIC NON-IONIZING EMISSIONS

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

HAVING SEEN:

a)   That in virtue of the permanent evolution of technologies used in wireless communications, the need of installation of antennas and its associated elements has increased, especially in the densely populated areas, and

b)   That the general population has expressed concern on the health effects of non-ionizing emissions effects, related with the proliferation of these antennas Systems,

CONSIDERING:

a)   That in many localities this concern prevents the deployment of wireless communication systems;

b)   That it is the responsibility of national telecommunication and broadcasting authorities to guarantee compliance of radiocommunication and broadcasting antenna systems with regard to their RF exposure standards;

c)   That it is important for the general population as a whole to be properly informed on the regulations in force relative to electromagnetic non-ionizing emissions;

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;

e)   That CITEL has recommended in its Recommendation PCC.II/REC. 15 (VI-05) …"To the Member Countries that have not yet developed a specific regulation on the topic, to do so following the recommendations of the World Health Organization, adopting the standards in harmony with the international limits of the ICNIRP and the recommendations given by the International Telecommunication Union in its Recommendation K.52.",

RECOGNIZING:

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;

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[6] CCP.II-RADIO/doc. 2003/09 rev.2

b)   That PCC.II has observed that in countries that have developed RF exposure standards establishing, among other issues, the maximum limits of radiation there are still some concerns with demonstrating that the limits are met in areas where antennas have been installed;

c)   That the general population in general claims to be better informed if the established RF exposure standards are strictly enforced;

d)   That PCC.II has studied how countries outside the region have reduced this public concern by the use of a control system composed of point measures, dynamic maps of radiation level and continuous monitoring systems;

e)   That among the countries studied are Egypt, Greece, Italy, Spain and Switzerland, and;

f)   That additionally the results are widely publicized through advertising campaigns or they are available for public use on Internet;

g)   That in the region of the Americas, Brazil has started to implement these measurement systems (CCP.II-RADIO/doc. 1753/08);

h)   That in other countries such as Canada, France, and Germany, Japan, United Kingdom and United States compliance with the maximum limits of radiofrequency exposure is demonstrated through computational methods or instrumentation-based field measurements undertaken by the entity installing the antenna and provided to the regulator,

RECOMMENDS:

1.   That Member States that have not yet adopted RF exposure standards, should consider following the recommendations of the World Health Organization when developing such regulation and to adopt the standards harmonized with the international scientific based standard for limits such as ICNIRP and IEEE C95.1 and to require compliance exposure assessments of antennas be conducted in accordance with ITU-T Recommendation K.52, IEEE or IEC standards.

2.   That Member States that have developed RF exposure standards provide information on RF exposure levels and make this information available to the public by appropriate means, such as information on compliance of the equipment or antenna site as filed with the administration, on point measurements performed at the installation, on dynamic mapping of radiation levels or information compiled from continuous monitoring systems.

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

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

CONSIDERING:

a)   That Integrated MSS Systems [8] 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)**;

e)   That Integrated MSS Systems 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 MSS 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;

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[7] CCP.II-RADIO/doc. 2013/09

[8]   Integrated MSS Systems refer to systems employing MSS and terrestrial components where the ground component is complementary to and operates as a part of the MSS system and, together with the satellite component, provides an integrated service offering. 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. These systems are referred to as MSS-ATC (MSS-Ancillary Terrestrial Component) in the United States and Canada, and MSS-CGC (MSS-Complementary Ground Component) in Europe.

c)   That the system architecture and network control of Integrated MSS Systems is designed to integrate, seamlessly and transparently, the operation of the systems' 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 MSS Systems, but that rules providing a regulatory, technical and/or operational framework to permit introduction and deployment of Integrated MSS 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 MSS 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 MSS 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 MSS 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 MSS 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 MSS 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 MSS 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 MSS Systems.

3.   That CITEL Member States consider updating the Annex to this Recommendation should other relevant information become available in the future.

RESOLVES:

To revoke Recommendation PCC.II/REC.24 (XI-08).

ANNEX TO RECOMMENDATION PCC.II/REC. 26 (XIII-09)

GUIDELINES TO FACILITATE THE DEPLOYMENT OF INTEGRATED MSS SYSTEMS IN THE AMERICAS

Definition of Integrated MSS System

- An integrated MSS system is a system employing a satellite component and ground component where the ground component is complementary to the satellite component and operates as and is an integral part of the MSS system. In such systems the ground component is controlled by the satellite resource and network management system. Further, the ground component uses the same portions of MSS frequency band as the associated operational mobile-satellite system.

Key Elements of Integrated MSS Systems

- Integrated MSS 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 MSS 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 MSS 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 requirements9 as a starting point for allowing Integrated MSS Systems in their administrations.

- Administrations should ensure that MSS operator developed system level/operational level parameters,10 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 Integrated MSS Systems do not cause harmful interference to other services, including, MSS, RNSS, GMDSS and AMS(R)S services.

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

10   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 XIII Meeting of the Permanent Consultative Committee II: Radiocommunications including Broadcasting,

DECIDES:

PCC.II/DEC. 77 (XIII-09) [11]	1. To invite CITEL members that have not yet done so to respond to the questionnaire on the use of UWB technologies included in the CCP.II-RADIO/doc. 1783/08. 2. To request CITEL members to provide guidance for the next PCC.II meeting with regard to the next steps to be taken on the responses to the questionnaire on the use of UWB technologies.
PCC.II/DEC. 78 (XIII-09) [12]	1. To request members of PCC.II, taking into consideration document CCP.II-RADIO/doc. 1937/09 cor.1 "ESTABLISHMENT OF AD HOC WORKING GROUP ON THE TRANSITION FROM ANALOG TO DIGITAL TELEVISION", to develop and submit input contributions to the next meeting of PCC.II identifying issues related to the digital dividend resulting from the analog to digital television switchover that would be relevant and beneficial for broadcasting/terrestrial issues related to the digital dividend. Issues could include: • Where the issue will be discussed within PCC.II, in existing Working Groups or in a new group, and what would be the scope, structure and name of the group that would consider these issues, • Transition timelines for implementation of digital switchover, • Technology choices available to Member States, • Range of services that could be introduced in the digital dividend, • Policies ensuring universal access to television before and after the digital switchover, • Opportunities for public safety deployments, • Opportunities for community broadcasting services (referencing relevant parts of the Digital Terrestrial Television Broadcasting Implementation Guide), • Possible band plans and allotment plans, specific spectrum and amount of spectrum that broadcasters would have after the switchover (referencing relevant parts of the Digital Terrestrial

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[11] CCP.II-RADIO/doc. 2008/09

[12] CCP.II-RADIO/doc. 2010/09 rev.1

	Television Broadcasting Implementation Guide),
	• Phased-in approaches to utilize freed up spectrum, • Other related issues. PCC.II members are not being requested to submit specific information on the above mentioned topics, but only to identify those topics of interest. 2. To invite members of PCC.II to convey the above requested information to CITEL Secretariat (citel@oas.org). 3. To instruct the Executive Secretary of CITEL to consolidate all received contributions into a single document, to be considered at the XIV PCC.II meeting.
PCC.II/DEC. 79 (XIII-09) [13]	To instruct the Secretariat of CITEL to request CITEL Member States to send inputs and views on documents CCP.II-RADIO/doc. 1920/09 attachment 1 and CCP.II-RADIO/doc. 1922/09 that deal with the enhancement of the international spectrum regulatory framework (Agenda Item 1.2 of WRC-11), before the next meeting to Mr. Javier Camargo (javier.camargo@ericsson.com), Rapporteur of Agenda item 1.2, with a copy to the Secretariat of CITEL. The purpose of the documents are to foster discussion and do not represent the consensus of the meeting.
PCC.II/DEC. 80 (XIII-09) [14]	To request the Secretariat of CITEL to circulate to the Member States the document CCP.II-RADIO/doc.2000/09 rev.1, which contains the compiled responses to the questionnaire on cell phone blockers in penitentiaries received from the administrations of Brazil, Canada and Ecuador that are found in the documents CCP.II-RADIO/doc. 1970/09, CCP.II-RADIO/doc. 1894/09 and CCP.II-RADIO/doc. 1924/09respectively.
PCC.II/DEC.81 (XIII-09) [15]	To request the Secretariat of CITEL to circulate to the Member States the "Working Document towards the Creation of a New Recommendation on BPL in the Americas" (CCP.II-RADIO/doc. 1998/09) in order to receive comments and contributions for the XIV meeting of PCC.II to improve the draft recommendation and move forward with this issue.

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[13] CCP.II-RADIO/doc. 2023/09

[14] CCP.II-RADIO/doc. 2021/09 rev.1

[15] CCP.II-RADIO/doc. 2020/09

PCC.II/DEC. 82 (XIII-09) [16]	To request the Secretariat of CITEL to circulate to Member States the document CCP.II-RADIO/doc.1997/09 which contains a Draft of Recommendation on White Spaces in the television frequency bands in the Americas requesting their contributions to the document towards its approval in the XIV PCC.II meeting.
PCC.II/DEC. 83 (XIII-09) [17]	To instruct the Executive Secretary of CITEL to submit document CCP.II-RADIO/doc. 2006/09 cor.1, Draft amendment of Recommendation PCC.II/REC. 23 (XI-08), to the administrations and Associate Members of CITEL, for their attention, before the next meeting of PCC.II.
PCC.II/DEC. 84 (XIII-09) [18]	1. To invite the administrations to submit before the XIV Meeting of the PCC.II the completed survey included in the Annex to this Decision.

2.   The Working Group on Broadcasting will prepare a report with the compilation of responses to the XIV meeting of PCC.II that will be used to update the Digital Terrestrial Television Broadcasting Implementation Guide and will provide to the members information on the possible vacant frequency bands.

3.   To revoke Decision PCC.II/DEC.70 (XII-08).

ANNEX TO DECISION PCC.II/DEC. 84 (XIII-09)

a)   The current specific use of the 54-72 MHz / 76-88 MHz / 174-216 MHz bands in the format shown below:

Administration	*Frequencies*	*Current Use*	*Predicted Future Use*
	54-72 MHz		
	76-88 MHz		
	174-216 MHz		

b)   The experiences gathered in their search for viable solutions 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

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[16] CCP.II-RADIO/doc. 2019/09 rev.1

[17] CCP.II-RADIO/doc. 2014/09

[18] CCP.II-RADIO/doc. 2016/09

existing broadcasting service.

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.

d) Transition timelines for implementation Digital Terrestrial Transmission systems and predicted schedule for switchover.

e) Possible strategies for usage of the freed up spectrum indicating the existence planned of phased-in approaches.

f) Regulatory issues regarding different service types that might impact possible future services, such as lack of converged regulators, legal and constitutional constraints.

PCC.II/DEC. 85 (XIII-09) [19]	1. To establish contact, through the Rapporteur on Technical and Regulatory Aspects Relating to Effects of Electromagnetic Non-Ionizing Emissions, with the Caribbean Telecommunications Union (CTU), in order to respond to the requests for further information or assistance from CITEL put forward to the PCC.II delegation that attended the 7th Spectrum Management Policy Development Meeting that can be found in document CCP.II-RADIO/doc. 1928/09. 2. To take steps to offer in 2009 on-line or training on the subject of Non-Ionizing Radiation without cost to CITEL. 3. To request that the CITEL Member States and organizations working in the area update the information contained in the DVD and on-line. 4. To request that the Rapporteur submit a report on these tasks to the XIV meeting of PCC.II.
PCC.II/DEC. 86 (XIII-09) [20]	To request that the Executive Secretary of CITEL forward the questionnaire on sanctions for harmful interference caused by unauthorized satellite network transmissions, annexed to document CCP.II-RADIO/doc. 1929/09, to the administrations and Associate Members of CITEL, for their response, prior to the next meeting of PCC.II.

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[19] CCP.II-RADIO/doc. 2030/09

[20] CCP.II-RADIO/doc. 1996/09

VI.   LIST OF BASIC DOCUMENTS

Summary Minutes of the Inaugural Session and the First Plenary Session:	CCP.II-RADIO/doc. 1994/09
Summary Minutes of the Second Plenary Session:	CCP.II-RADIO/doc. 2024/09
Summary Minutes of the Third Plenary Session and Closing Session:	CCP.II-RADIO/doc. 2029/09 rev.1
List of Documents:	CCP.II-RADIO/doc. 1841/09 rev.5
List of Participants:	CCP.II-RADIO/doc. 1842/09 rev.1
Final Report for the Meeting	CCP.II-RADIO/doc. 2033/09 rev.1