37 MEETING OF PERMANENT 
CONSULTATIVE COMMITTEE II: 
RADIOCOMMUNICATIONS
April 5 to 9, 2021
Virtual meeting

FINAL REPORT
(Item on the Agenda: 7)
(Document submitted by CITEL Secretariat)
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FINAL REPORT

37 MEETING OF PERMANENT CONSULTATIVE COMMITTEE II:
RADIOCOMMUNICATIONS (PCC.II)

The 37 Meeting of Permanent Consultative Committee II: Radiocommunications (PCC.II) was held virtually, from April 5 to 9, 2021.

I. MEETING OFFICERS

Chair of PCC.II: Mr. Arturo Robles Rovalo (Mexico)
Alternate Chair of PCC.II: Mr. José Arias (Mexico)
Vice Chair of PCC.II: Mr. Héctor Budé (Uruguay)
Vice Chair of PCC.II: Mr. Agostinho Linhares de Souza (Brazil)
Vice Chair of PCC.II: Mr. Carlos Eduardo Valle (El Salvador)
CITEL Executive Secretary: Mr. Oscar León

Drafting Group:

Chairperson: Diana Gómez (Mexico)
Members: Alexander Tejada (El Salvador)
Sandra Wright (USA)
Brayan Carrillo (Guatemala)
Kenji Kuramochi (Paraguay)

II. REPORT OF THE PCC.II CHAIR

At the beginning of the 37 meeting of the Permanent Consultative Committee II: Radiocommunications (PCC.II), the Chair of the Committee conducted deliberations based on the Agenda items listed in document PCC.II-RADIO/doc. 5257. Furthermore, the PCC.II Working Groups met according to the schedule issued as document PCC.II-RADIO/doc. 5258r2. The results of the activities held at the meeting can be summarized as follows:

1. Working Group Relative to CITEL’s Preparation for World Radiocommunication Conferences.

This Group met 3 (three) times and its Ah-doc group also met 3 (three) times. During those meetings 30 documents were considered. The group’s agenda was issued as document PCC.II-RADIO/doc. 5330r3.

The Report by the Chair with all the details was issued as document PCC.II-RADIO/doc. 5340.

2. Working Group on Terrestrial Services

This Group met 3 (three) times. During those meetings 19 documents were considered. The group’s agenda was issued as document PCC.II-RADIO/doc. 5329r1.
The Report by the Chair with all the details was issued as document PCC.II-RADIO/doc. 5341r1.

3. Working Group on Spectrum Management

This Group met 2 (two) times. During the meetings 6 documents were considered. The group’s agenda was issued as document PCC.II-RADIO/doc. 5321r2.

The Report by the Chair with all the details was issued as document PCC.II-RADIO/doc. 5342.

4. Working Group on Radio Broadcasting

This Group met 2 (two) times. During the meetings 3 documents were considered.

The Report by the Chair with all the details was issued as document PCC.II-RADIO/doc. 5344r1.

5. Working Group on Satellite Systems and Science Services

This Group met 2 (two) times. During the meetings 9 documents were considered. The group’s agenda was issued as document PCC.II-RADIO/doc. 5334.

The Report by the Chair with all the details was issued as document PCC.II-RADIO/doc. 5343.

6. Working Group to Coordinate Strategic Initiatives of the OAS related to Radiocommunications

The Working Group did not meet on this occasion. However, during the First Plenary session, information documents were presented, the final report of COM / CITEL (COM-2020-37-306) and information document of the project "Winlink for Caribbean countries 1st Phase" (PCC.II-2021- 37-5323).

7. Ad Hoc Group on “Resolutions, Decisions and Recommendations of PCC.II”

The Ad Hoc Group on "Resolutions, Decisions and Recommendations of PCC.II." did not meet this time. However, during the First Plenary session, 3 (three) documents were presented: 1) The report of the Chairman of the Ad Hoc Group; 2) a contribution to update the list of instruments issued (Resolutions, Decisions and Recommendations) and; 3) a draft Decision to extend the term of the Ad Hoc Group on "Resolutions, Decisions and Recommendations of PCC.II" which was approved in the Second Plenary Session.

8. Issues to be highlighted

The next (38) Meeting of the PCC.II will be held from November 8 to 12, 2021, in Mexico.
III. AGENDA

1. Approval of the agenda and schedule.


3. Meeting of the Working Groups on:
   - 3.1 Working Group on Preparation for Regional and World Radiocommunication Conferences.
   - 3.2 Working Group on Terrestrial Fixed and Mobile Radiocommunication Services.
   - 3.3 Working group on Spectrum Management
   - 3.5 Working Group on Broadcasting.
   - 3.6 Working Group to Coordinate Projects Associated with Strategic Initiatives of the OAS related to Radiocommunications
   - 3.7 Ad Hoc Group on “PCC.II Resolutions, Decisions and Recommendations”

4. PCC.II Strategic Plan.

5. Agenda, Venue and Date of the next Meeting of PCC.II.

6. Other matters.


DRAFT AGENDAS OF THE WORKING GROUPS

3.1 Working Group on the preparation of CITEL for Regional and World Radiocommunication Conferences
   1. Presentation and approval of the agenda.
   2. Working methods.
   3. Preparation for the Radiocommunications Assembly (RA-23) and the World Radiocommunication Conference (WRC-23).
      3.1 Update of WRC-23 preparations.
   5. Consideration of issues resulting documents submitted through the collaborative space.
   7. Other matters.

3.2 Working Group on Terrestrial Fixed and Mobile Radiocommunication Services
   1. Approval of the agenda.
   3. IMT implementation.
   5. Sub-Working Group of Spectrum management.
   7. Other business.
3.3 Working Group on Spectrum Management

1. Presentation and approval of the Agenda.
2. Follow-up on the activities and studies carried out within the ITU by Study Group 1 and Study Group 3 of the ITU-R.
3. Exchange of relevant information and best practices among CITEL Members on aspects regarding spectrum management and affordable and widespread access to ICTs.
4. Presentation of contributions.
5. Work Plan.
6. Other business.

3.4 Working Group on Satellite Systems and Science Services

1. Approval of the agenda.
2. Implementation of regulations that facilitate deployment of satellite services.
3. Harmful interference from unauthorized transmissions in satellite networks.
5. Existing databases on satellite systems.
6. Operation of satellite services with no authorization.
8. Other business:
   8.1 Use and operation of satellite bands in addition to C and Ku bands;
   8.2 Regulations and operation of small satellites (picosatellites, nanosatellites, cubesats);
   8.3 Use of new technologies;
   8.4 Compatibility between satellite services (fixed and mobile) and terrestrial fixed and mobile services;
   8.5 Use of bands authorized for amateur service by amateurs via satellite.

3.5 Working Group on Broadcasting

1. Opening remarks.
2. Approval of the agenda.
3. Consideration of the inputs documents on:
   3.1 Digital Television;
   3.2 Digital Sound Broadcasting;
   3.3 Spectrum Usage and New Technologies for Broadcasting;
   3.4 Rio Janeiro 1981 Agreement;
5. Other business.

3.6 Working Group to Coordinate Projects Associated with Strategic Initiatives of the OAS related to Radiocommunications

1. Approval of the agenda.
2. Work Plan.
3. Other business.

3.7 Ad Hoc Group on “PCC.II Resolutions, Decisions and Recommendations”

1. Approval of the agenda.
2. Work Plan.
3. Other business.
IV. RESOLUTIONS

PCC.II/RES. 138 (XXXVII-21)²

AGENDA, VENUE AND DATE OF THE 38 MEETING OF PCC.II

The 37th. Meeting of the Permanent Consultative Committee II: Radiocommunications (PCC.II),

CONSIDERING:

a) The challenging situation that the world is facing due to the COVID-19 virus pandemic;

b) How uncertain the development and control of the COVID-19 virus may be in the upcoming months;

c) The different actions that Member States and Associate Members have taken to stop the spread of the virus;

d) That the 35, 36 and 37 meetings of PCC.II were held in an exceptional manner in a virtual venue to deal with the most urgent topics.

RESOLVES:

1. To hold the 38th. Meeting of PCC.II in Mexico from November 8 to 12, 2021;

2. To approve the draft agenda for the 38 Meeting of PCC.II, attached in the annex of this resolution.

ANNEX TO RESOLUTION PCC.II/RES. 138 (XXXVI-20)

DRAFT AGENDA

1. Approval of the agenda and schedule.


3. Meeting of the Working Groups on:

   2.1 Working Group Relative to CITEL’s Preparation for World Radiocommunication Conferences
   2.2 Working Group on Terrestrial Services
   2.3 Working Group on Spectrum Management
   2.4 Working Group on Satellite Systems and Science Services
   2.5 Working Group on Radio Broadcasting

² PCC.II-2021-37-5339
2.6 Working Group to Coordinate Strategic Initiatives of the OAS related to Radiocommunications
2.7 Ad Hoc Group on “Resolutions, Decisions and Recommendations of PCC.II”

4. PCC.II Strategic Plan.

5. Agenda, Venue and Date of the next Meeting of PCC.II.

6. Other matters.


DRAFT AGENDAS OF THE WORKING GROUPS

3.1 Working Group Relative to CITEL’s Preparation for World Radiocommunication Conferences
1. Presentation and approval of the agenda.
2. Working methods.
3. Preparation for the Radiocommunications Assembly (RA-23) and the World Radiocommunication Conference (WRC-23).
   3.1 Update of WRC-23 preparations.
5. Consideration of issues resulting documents submitted through the collaborative space.
7. Other matters.

3.2 Working Group on Terrestrial Services
1. Approval of the agenda.
3. IMT implementation.
5. Work Plan.
6. Other business.

3.3 Working Group on Spectrum Management
1. Presentation and approval of the Agenda.
2. Follow-up on the activities and studies carried out within the ITU by Study Group 1 and Study Group 3 of the ITU-R.
3. Exchange of relevant information and best practices among CITEL Members on aspects regarding spectrum management and affordable and widespread access to ICTs.
4. Presentation of contributions.
5. Work Plan.
6. Other business.

3.4 Working Group on Satellite Systems and Science Services
1. Approval of the agenda.
2. Implementation of regulations that facilitate deployment of satellite services.
3. Harmful interference from unauthorized transmissions in satellite networks.
5. Existing databases on satellite systems.
6. Operation of satellite services with no authorization.
8. Other business:
   8.1 Use and operation of satellite bands in addition to C and Ku bands;
   8.2 Regulations and operation of small satellites (picosatellites, nanosatellites, cubesats);
   8.3 Use of new technologies;
   8.4 Compatibility between satellite services (fixed and mobile) and terrestrial fixed and mobile services;
   8.5 Use of bands authorized for amateur service by amateurs via satellite.

3.5 Working Group on Radio Broadcasting
1. Approval of the agenda.
2. Consideration of the inputs documents on:
   2.1 Digital Television;
   2.2 Digital Sound Broadcasting;
   2.3 Spectrum Usage and New Technologies for Broadcasting;
   2.4 Rio Janeiro 1981 Agreement;
4. Other business.

3.6 Working Group to Coordinate Strategic Initiatives of the OAS related to Radiocommunications
1. Approval of the agenda.
2. Work Plan.
3. Other business.

3.7 Ad Hoc Group on “Resolutions, Decisions and Recommendations of PCC.II”
1. Approval of the agenda.
2. Work Plan.
3. Other business.
V. RECOMENDATIONS

PCC.II/REC. 64 (XXXVII-21)

FREQUENCY ARRANGEMENTS FOR THE IMPLEMENTATION OF THE TERRESTRIAL COMPONENT OF INTERNATIONAL MOBILE TELECOMMUNICATIONS (IMT) IN THE BANDS 24.25-27.5 GHz, 37-43.5 GHz, 45.5-47 GHz, 47.2-48.2 GHz, AND 66-71 GHz, IDENTIFIED FOR IMT AT WRC-19

The 37th Meeting of the Permanent Consultative Committee II: Radiocommunications (PCC.II),

CONSIDERING:

a) That the ITU Radio Regulations identify the band 24.25-27.5 GHz for use by administrations wishing to implement IMT, in accordance with No. 5.532AB and Resolution 242(WRC-19);

b) That the ITU Radio Regulations identify the band 37-43.5 GHz for use by administrations wishing to implement IMT, in accordance with No. 5.550B and Resolution 243 (WRC-19), in particular noting the potential deployment of high-density applications in the fixed-satellite service in the frequency band 40-42 GHz (see No. 5.516B);

c) That the ITU Radio Regulations identify the band 45.5-47 GHz for use by some administrations wishing to implement IMT, in accordance with No. 5.553A and Resolution 244(WRC-19);

d) That the ITU Radio Regulations identify the band 47.2-48.2 GHz for use by administrations of Region 2 wishing to implement IMT, in accordance with No. 5.553B and Resolution 243(WRC-19);

e) That the ITU Radio Regulations identify the band 66-71 GHz for use by administrations wishing to implement IMT, in accordance with No. 5.559AA and Resolution 241(WRC-19);

f) Recommendation PCC.II/REC. 46 (XXV-15): "Guidelines for the establishment of agreements for the use of the spectrum in the coordination areas";

g) Recommendation PCC.II/REC. 44 (XXXIII-14): “Guidelines for the harmonization of measurement procedures in the technical verification of the use of the spectrum for coordination in border areas”;

h) That IMT encompasses IMT-2000, IMT Advanced and IMT-2020, as specified in Resolution ITU-R 56-2 (2015);

i) That Recommendation ITU-R M.1036 “Frequency arrangements for implementation of the terrestrial component of International Mobile Telecommunications (IMT) in the bands identified for IMT in the Radio Regulations (RR)” covers international frequency arrangements for all the bands identified for IMT in the ITU Radio Regulations;

j) That within the scope of CITEL, the following recommendations related to the subject have been issued:

1. Recommendation PCC.II/REC. 7 (III-04): “Frequency arrangements for implementation of the terrestrial component of International Mobile Telecommunication 2000 (IMT-2000) in the bands of

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3 PCC.II-2021-37-5335r3
2500 – 2690 MHz”, which provides recommendations for planning the implementation of IMT-2000 in the band 2500-2690 MHz;
2. **Recommendation PCC.II/REC. 8 (IV-04):** “Frequency arrangements for IMT-2000 in the bands 806 to 960 MHz, 1710 to 2025 MHz, 2110 to 2200 MHz and 2500 to 2690 MHz”;
3. **Recommendation PCC.II/REC. 30 (XVIII-11):** “Frequency arrangements of the 698–806 MHz band in the Americas for broadband mobile services”;
4. **Recommendation PCC.II/REC. 31 (XVIII-11):** “Harmonized use of the 450-470 MHz band for fixed and mobile broadband wireless services particularly in underserved areas”;
5. **Recommendation PCC.II/REC. 32 (XIX-12):** “Frequency arrangements for the bands identified for International Mobile Telecommunications at WRC-07”;
6. **Recommendation PCC.II/REC. 34 (XX-12):** “Compatible frequency arrangements for terrestrial mobile systems in the bands 1 710 – 2 025 MHz and 2 110 – 2 200 MHz”;
7. **Recommendation PCC.II/REC. 54 (XXIX-17):** “Frequency arrangements for the terrestrial component of IMT in the bands 3300-3400 MHz, 3400-3600 MHz, and 3600-3700 MHz, or combinations thereof”;
8. **Recommendation PCC.II/REC. 55 (XXIX-17):** “Recommendation on frequency arrangements for IMT in the band 1 427-1 518 MHz”;
9. **Recommendation PCC.II/REC. 56 (XXX-17):** “Frequency arrangements for the terrestrial component of IMT in the band 614-698 MHz”;

k) That the harmonization of frequency arrangements generally facilitate compatibility, thereby producing economies of scale, and enabling global roaming;
l) That CITEL member states should take into account the need to facilitate coexistence between IMT and other applications of the mobile service, including other wireless access systems in these frequency bands,

**RECOGNIZING:**

a) That the identification of the frequency bands 24.25-27.5 GHz, 37-43.5 GHz, 45.5-47 GHz, 47.2-48.2 GHz, and 66-71 GHz for IMT does not preclude their use by any application of the services to which they are allocated and does not establish priority in the ITU Radio Regulations;

b) That depending on national realities, CITEL Member States may have different national priorities, policies, criteria, and requirements regarding the use of the various bands that are the subject of this recommendation or in part of them;

c) That, depending on national regulations, it may be necessary to apply, in all or part of the bands that are the subject of this recommendation, technical and operational measures aimed at ensuring coexistence and compatibility between the mobile service (the terrestrial component of IMT), and the fixed-satellite service;

d) That some countries in the Region use the 57-71 GHz band, or parts of it, on a license-exempt basis,

**RECOMMENDS:**

1. That CITEL Member States that plan to implement IMT in the bands 24.25 – 27.5 GHz, 37 – 43.5 GHz, 45.5 – 47 GHz, 47.2 – 48.2 GHz, 66 – 71 GHz or portions thereof, consider the following frequency arrangements for such implementation:
2. That CITEL Member States, when deploying IMT systems in the bands covered in this Recommendation, in accordance with the provisions of the ITU Radio Regulations, the applicable ITU Recommendations and their pertinent national regulations, ensure the coexistence with existing primary services in the bands;

3. That CITEL Member States develop bilateral or multilateral border coordination strategies, taking into account the **considerings** in this recommendation, as well as the relevant technical provisions of the ITU Radio Regulations.

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<th>GHz</th>
<th>24.25</th>
<th>27.5</th>
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<td>5.552AB</td>
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<td>24.25-27.5</td>
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<td>GHz</td>
<td>37</td>
<td>43.5</td>
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<td>5.559AA</td>
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<td>66-71</td>
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<td>TDD</td>
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</table>
VI. DECISIONS

PCC.II/DEC. 218 (XXXVII-21)\textsuperscript{4}

DRAFT QUESTIONNAIRE TO COLLECT INFORMATION ON THE RAILWAY RADIOCOMMUNICATION SYSTEMS IN REGION 2

The 37th Meeting of Permanent Consultative Committee II: Radiocommunication (PCC.II),

DECIDES:

1. To approve the attached questionnaire intended to collect information on the frequencies used by rail systems for signaling, communications (voice), data transmission, video, traffic safety, braking systems, signage, maneuvering, etc. with the purpose of evaluating the possibility of harmonizing the frequencies used in our region for this type of systems.

2. To request the CITEL Secretariat to distribute the attached questionnaire to the Administrations of the Member States and Associate Members.

3. A rapporteurship will be carried out by Mr. José Levi from the Administration of Argentina (jlevi@enacom.gob.ar) and Mr. David Tejeda from the Administration of México (david.tejeda@ift.org.mx) at the scope of the WG 3.2.

4. To invite the OAS / CITEL Member States to send their answers to the questionnaire by July 31, 2021, to the Rapporteurship and the CITEL Secretariat (citel@oas.org).

5. The Rapporteur should submit a report to the 38th and 39th PCC.II Meeting, that summarizes responses to the questionnaire.

\textsuperscript{4} PCC.II-2021-37-5286r2
ANNEX TO DECISION PCC.II/DEC. 218 (XXXVII-21)

QUESTIONNAIRE ON THE FREQUENCIES USED BY RAILWAY RADIOPHONIC IN THE AMERICAS

Each Administration is invited to provide responses following:

a) Services involved in the use of radio frequencies by companies providing both cargo and passenger rail services, including a brief description and its purpose [communications (voice), data transmission, video, traffic safety, braking systems, signaling, maneuvers, etc.]

b) Please provide the name(s) of Railway Radiocommunication Systems providing railway traffic control, passenger safety and security for train operations in your country.

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<th>#</th>
<th>Name of the System(s)</th>
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<td>(Name of System 1)</td>
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<tr>
<td>2</td>
<td>(Name of System 2)</td>
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c) What are the technical and operational characteristics of each system?

d) What are the Frequency bands in use?

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<th>#</th>
<th>Name of the Systems</th>
<th>Frequency bands in use</th>
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<tbody>
<tr>
<td>1</td>
<td>(Name of System 1)</td>
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<tr>
<td>2</td>
<td>(Name of System 2)</td>
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</table>

e) Does your country use the so-called “end of train” signal? What frequency is used for this signal?

f) Which Radiocommunication standard(s) are applied for each system? Please list the name and provide the Uniform Resource Locator (URL) for the standard(s).


# Name of the Systems | Radiocommunication Standard(s)
--- | ---
1 | (Name of System 1) | Standard 1: Name:____________ (URL) :____________________ ... 
2 | (Name of System 2) | ... 
3 | ... | ... 

g) What are the technical parameters of the Radio Frequency (RF) interfaces of each system?

<table>
<thead>
<tr>
<th>#</th>
<th>Name of the Systems</th>
<th>Technical parameters of the RF interfaces</th>
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<td>1</td>
<td>(Name of System 1)</td>
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<td>2</td>
<td>(Name of System 2)</td>
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Note: The technical parameters of the RF interface could include channel separation, antenna type, antenna gain, polarization, e.i.r.p., receiving noise figure, transmission data rate, transmission distance (km), modulation, multiplexing method, protection criteria, etc.

h) Are your Administration planning to migrate your system? If possible please answer the above questions for the future system(s), and indicate which existing system(s) would be replaced?

i) What current and future technologies does your Administration believe should be used to maximize radio spectrum efficiency for signaling between roads and trains, including communications (voice), data transmission, video, traffic safety, braking systems, signaling, maneuvers, etc.?

j) Noting that concerned administrations may have bilateral and multi-lateral agreements in place, what potential solutions can your Administration propose for regional harmonization of the frequency bands to be used for trains and trackside including communications (voice), data transmission, video, traffic safety, braking systems, signaling, maneuvers, etc., taking into account the frequency bands already allocated to the mobile service on a primary basis?
RECOGNITION OF DR. CECILY HOLIDAY FOR HER LEADERSHIP TO CITEL

The 37th Meeting of Permanent Consultative Committee II: Radiocommunication (PCC.II),

DECIDES:

To instruct the Executive Secretary to send a letter of appreciation to Dr. Cecily Holiday of the Administration of the United States of America in recognition of her longstanding dedication and successful leadership in raising the profile and effectiveness of CITEL, with the consequent benefit for the entire Region of the Americas.

Dr. Holiday led efforts to create the Permanent Consultative Committee III Working Group on Preparations for World Radiocommunication Conferences and to develop Inter-American Proposals to ITU Conferences; she chaired the PCC.III Working Group on Preparation for the 1997 World Radiocommunication Conference; and she spurred CITEL’s efforts to advocate for representatives of CITEL Member States, including female candidates, to serve in ITU elected offices and as chairs of ITU Conferences and other groups.

Dr. Holiday sought to strengthen CITEL’s future through efforts to promote the participation of the widest range of CITEL Member States in leadership roles within the PCC.II WRC Working Group and as CITEL spokespersons at ITU Conferences and meetings.
PCC.II/DEC. 220 (XXXVII-21)⁶

EXTENSION OF THE WORK OF THE AD HOC GROUP ON "RESOLUTIONS, DECISIONS AND RECOMMENDATIONS OF PCC II"

The 37 Meeting of Permanent Consultative Committee II: Radiocommunication (PCC.II),

DECIDES:

1. To extend the term of the Ad Hoc Group on "PCC.II Resolutions, Decisions and Recommendations" with the following mandates:
   
   a) Develop the work that allows carrying out and approving the result of the specified actions contained in the document CCPII-2019-34-4998p1 "Suggested actions on doubts and special cases detected during the review of the resolutions, decisions and recommendations of PCC.II" and present final results at the 39th meeting of PCC.II;
   
   b) Present at the 39th meeting of PCC.II:
      
      i. compendium of "Resolutions, Decisions and Recommendations" issued by PCC II (reference document CCP.II-2021-37-5263p1_e) until the 38th meeting and the "List of others Important documents updated (reference document CCPII-2019-33-4961tp2) for approval;
      
      ii. a procedure proposal for PCC.II to collaborate with the CITEL Secretariat in permanently updating the databases of "Resolutions, Decisions and Recommendations" and "Reports" issued by it.

2. To instruct the Chairpersons of the PCC II Working Groups to provide or complete the information on the documents issued by their groups that contain reports or similar (reference document CCPII-2019-33-4961tp2) at the 38 meeting of the PCC .II.

3. To ratify Mr. Tarcisio Bakaus from Brazil (bakaust@anatel.gov.br) as President of this Ad Hoc Group and Sr. Brayan Carrillo from Guatemala (brayan.carrillo@sit.gob.gt) as Alternate President.

⁶ CCPII-2021-37-5345