



ASIA-PACIFIC TELECOMMUNITY
The APT Conference Preparatory Group for WRC-
2012

AGENDA ITEM COORDINATOR'S REPORT ON THE OUTCOME OF CPM11-2

**Arranged in the order of WRC-12 Agenda Items
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Outcomes of CPM11-2 Report of the Agenda Item Coordinator

Agenda Item: 1.3
Name of the Coordinator: Bill McDonald (AUS)
<p>Issues: <i>to consider spectrum requirements and possible regulatory actions, including allocations, in order to support the safe operation of unmanned aircraft systems (UAS), based on the results of ITU-R studies, in accordance with Resolution 421 (WRC-07);</i></p> <p><i>Resolution 421 (WRC-07): Consideration of appropriate regulatory provisions for the operation of unmanned aircraft systems</i></p>
<p>Proposed Modification by APT: The APT submitted a major proposal to replace 'Views' with 'Advantages and Disadvantages' in the draft CPM report. See CPM11-2/47 input contribution.</p>
<p>Results of CPM11-2: This was an agenda item where the APT contributed much to the debate. While the APT came into the meeting with a sound proposal to update the existing 'Views' (with the more usual 'Advantages and Disadvantages'), once the SWG 1.3 meetings had progressed to the end of week 1, it became clear that there would probably not be enough time to fully consider the input submissions on this matter to the level required. After some discussion between the APT members, it was decided that it would now be better to revert to the existing 'Views' (provided there was no further debate). The APT coordinator put this proposal to an informal meeting of AI 1.3 participants on the night of 18 Feb and found that it was immediately supported by the RCC, the CEPT, various Region 2 administrations and others. At the Saturday morning SWG 1.3 meeting the APT proposal was supported by all stakeholders without challenge. An excellent outcome.</p> <p>In addition to this matter, the APT also fully supported France on its proposal (in document CPM11-2/128) to replace 9.21 with 9.11A for satellite UAS systems operating in the 5030-5091 MHz band if WRC-12 made a new AM(R)S allocation to support terrestrial UAS systems in the band. The aim was to ensure that satellite UAS systems would not be subject to a more rigorous regulatory regime than terrestrial UAS. Prior to giving the APT's support, the AI 1.3 coordinator put the proposal to the first Tuesday APT lunchtime meeting to ensure that all members were happy. After 24 hours consideration by a number of administrations, it was found that it had universal support.</p> <p>Another important AI 1.3 matter was a proposal by Iran during the SWG 1.3 meetings to include in the CPM text dealing with Method A3 a factual statement that WRC-07, in Recommendation 724, had found that 'FSS is not a safety service'. After some informal discussion between APT members, at the next SWG 1.3 meeting the APT 1.3 coordinator fully supported Iran on this matter and the addition went into the updated CPM report.</p> <p>Finally, it is worth noting that the number of <i>Methods</i> on AI 1.3 was reduced by one to 7 with the removal of <i>Method B2</i>.</p>

Comments/Remarks by the Coordinator:

This was an agenda item where the APT was quite active in making proposals and in supporting (or opposing) the proposals of others. The AI 1.3 coordinator ensured at all times that APT members having an interest in the agenda item were consulted before intervening at the SWG1.3 meetings under the APT flag. On one matter (to support France on the 9.21 to 9.11A proposal) the entire APT membership was first consulted at an APT lunchtime meeting before making the proposal to support France on behalf of the entire 34 APT membership.

While the APT did well at this meeting it is now time to start preparing for the APG-5 meeting in August when the final APV on AI 1.3 will need to be agreed. While we currently have excellent agreement on satellite UAS in the 5030-5091 MHz band (an existing AMS(R)S safety allocation) under our preferred Method A1, an important area for APG-5 will be to try to decide on a common APT view on terrestrial UAS in this band and possibly others. We will also need to see whether we can now support Method B (as our preferred Method B2 has been removed from the CPM report). APT members are therefore encouraged to participate at the ITU-R WP 5B meeting in June where studies on possible new bands for terrestrial UAS are likely to be further evolved.

Outcomes of CPM11-2 Report of the Agenda Item 1.4 Coordinator

Agenda Item: 1.4
Name of the Coordinator: Mr Eddy D'Amico (Australia)
Issues: to consider, based on the results of ITU-R studies, any further regulatory measures to facilitate introduction of new AM(R)S systems in the bands 112 -117.975 MHz, 960-1 164 MHz and 5 000-5 030 MHz in accordance with Resolutions 413 (Rev. WRC-07) , 417 (WRC-07) and 420 (WRC-07) .
Proposed Modification by APT: Minor editorial changes were proposed by the APT on text relating to Resolution 420 (WRC-07) (refer to Document CPM11-2/47).
<p>Results of CPM11-2: SWG-1b was tasked, under the chairmanship of Joe Crammer (USA), to revise the CPM text for this agenda item. SWG-1b met on Tue 15 and Wed 16 Feb and considered eight input contributions and four information contributions. WG-1 approved document TEMP/12 on Thu 17 Feb, and document CPM11-2/174 was introduced and considered at the second plenary on Fri 18 Feb.</p> <p>At the second plenary concerns were raised about <i>Resolves 2</i> and 4 of the revised Resolution 417 in Method B. These concerns relate to the impact on AM(R)S in countries within certain distances of borders of countries listed in <i>Resolves 2</i> (countries listed in <i>Resolves 2</i> were extracted from the list of countries in RR 5.312). It was argued that <i>Resolves 2</i> will essentially make AM(R)S, a safety service, a secondary service in some countries, including some APT countries. Document CPM11-2/174 was approved at the second plenary on the condition that new text be developed and agreed on <i>Resolves 2</i> and 4 of the revised Resolution 417.</p> <p>SWG-1b met a further two times on Sat 19 and Sun 20 Feb to develop new text for <i>Resolves 2</i> of the revised Resolution 417. Some countries in RR 5.312 (Hungary and Czech Republic) indicated that they will use Agenda item 1.1 to remove their names from the footnote as they no longer operate the non-ICAO ARNS (military) systems. It was agreed that there was no need to change the text for <i>Resolves 4</i> of the revised Resolution 417. The text for <i>Resolves 2</i> of the revised Resolution 417 in Method B was approved at the third plenary on Wed 23 Feb (document CPM11-2/174 (Corr 1)).</p> <p>The approved CPM text includes most of the modifications proposed by the APT. In summary, the major outcomes approved by the CPM plenary were:</p> <ul style="list-style-type: none"> • For Resolution 413 (Rev. WRC-07) - no change to Method A; • For Resolution 417 (WRC-07) - renaming of Method B1 to Method B, rewording of <i>Resolves 2</i> of revised Resolution 417 in Method B, and deletion of Method B2; and • For Resolution 420 (WRC-07) - the inclusion of a range of eirp values for AM(R)S transmissions in <i>Resolves 1</i> of the proposed new Resolution for Method C2. <p>These outcomes are compatible with the APT preliminary views for this agenda item.</p>

Comments/Remarks by the Coordinator:

APT Members should provide input contributions to the APG2012-5 meeting reiterating support for Methods A and B. APT Members that neighbour RCC countries listed in RR 5.312 should consider providing input to APG2012-5 on their views on the proposed *Resolves 2* of the revised Resolution 417 in Method B.

For Resolution 420, studies are ongoing within ITU-R WP 5B on the spectrum requirements for AM(R)S at 5 GHz (Issue A). The progress of studies at the June 2011 meeting of WP 5B will be important in determining whether there is a need for an additional AM(R)S allocation in the 5 000-5 010 MHz band. It should be noted that sharing studies between AM(R)S and RNSS in the 5 000-5 010 MHz band, and with the RAS in the 4 990-5 000 MHz band are complete demonstrating compatibility (Issue B). APT Members should submit proposals to the APG2012-5 supporting either Method C1 or Method C2 taking account their views on Issue A. APT Members should also consider appropriate eirp values for AM(R)S transmissions in *Resolves 1* of the proposed new Resolution for Method C2.

Outcomes of CPM11-2 Report of the Agenda Item 1.6 Coordinator

Agenda Item: 1.6 to review No. 5.565 of the Radio Regulations in order to update the spectrum use by the passive services between 275 GHz and 3 000 GHz, in accordance with Resolution 950 (Rev.WRC-07), and to consider possible procedures for free-space optical-links, taking into account the results of ITU-R studies, in accordance with Resolution 955 (WRC-07);

Name of the Coordinator: Anastasios Tzioumis (Australia)

Issues:

No critical or controversial issues with this Agenda item.

Resolution 950 (Rev.WRC-07): One method was proposed in the CPM to review No. 5.565. This method had Option A with only direct modification of 5.565 and an Option B to include an example Resolution.

Resolution 955 (WRC-07): There were very few studies completed for this item. However, four methods were proposed, and some of them had wider implications for the ITU Convention.

Proposed Modification by APT:

The APT proposed editorial modifications to the Method for Resolution 950 of this Agenda Item (document CPM11-2/47). This provided some clarifications to the changes to No 5.565. The APT also proposed the suppression of Option B i.e. no example Resolution. The proposed changes were well aligned with other submissions. The only additional element in the APT proposal was the inclusion of the phrase "*having due regard to the latest appropriate ITU-R Recommendations and Reports*".

The APT had no proposals for Resolution 955.

Results of CPM11-2:

This agenda item was assigned to SWG4a, under the chairmanship of M. Dreis (D) and was considered on the 15/2/11.

For *Resolution 950*, there were a total of 7 input documents with very similar proposals. Agreement was reached quickly, along the lines proposed by the Special Committee. The special phrase proposed by the APT was not accepted and the APT, in coordination with Korea, did not insist. A single simplified method with no options was agreed.

For *Resolution 955*, there were no input documents. However, a proposal was raised from the floor and was unanimously supported. This simplifies this part of the Agenda item by deleting 3 of the methods and keeping only the NOC method.

The agreed changes were adopted by WG4 and then the CPM plenary without any additional arguments or changes.

Comments/Remarks by the Coordinator:

There was a strong consensus to simplify the methods for this Agenda Item and this is very well aligned with the APT Common View. The APT should support the single methods proposed in the CPM. The concerns expressed in Other Views by some APT members have also been addressed by the simplified new CPM text.

Outcomes of CPM11-2 Report of the Agenda Item Coordinator

Agenda Item 1.7
Name of the Coordinator: SUZUKI, Yoshio (J)
Issues: <i>consider the results of ITU-R studies in accordance with Resolution 222 (Rev.WRC-07) in order to ensure long-term spectrum availability and access to spectrum necessary to meet requirements for the aeronautical mobile-satellite (R) service, and to take appropriate action on this subject, while retaining unchanged the generic allocation to the mobile-satellite service in the bands 1 525-1 559 MHz and 1 626.5-1 660.5 MHz;</i>
Proposed Modification by APT: None
Results of CPM11-2: APT Preliminary view was appropriately reflected in the Report. The four Methods were reviewed, and after extensive discussions their texts were improved taking into account of better balance among all Methods.
Comments/Remarks by the Coordinator: Noting the results of the CPM, APT common proposal will be developed and agreed at the APG-5 to satisfy objectives of the Agenda Item.

Outcomes of CPM11-2 Report of the Agenda Item Coordinator

Agenda Item: 1.8
Name of the Coordinator: Kyung-Mee Kim
Issues: <i>to consider the progress of ITU-R studies concerning the technical and regulatory issues relative to the fixed service in the bands between 71 GHz and 238 GHz, taking into account Resolution 731 (WRC-2000), Resolution 732 (WRC-2000)</i>
Proposed Modification by APT: At the 4 th meeting of APG2012, APT Members supported the draft CPM Report on this agenda and no proposal was submitted to the CPM11-2 meeting.
Results of CPM11-2: Two contributions from WMO were submitted to modify advantages and disadvantages of Methods in line with their position supporting Method B. However, their proposal was just noted and no change was made to the current text of the draft CPM Report.
Comments/Remarks by the Coordinator: Nothing found yet.

Outcomes of CPM11-2 Report of the Agenda Item Coordinator

Agenda Item: 1.9
Name of the Coordinator: Mr. Kenji FURUYAMA (J)
Issues: <i>to revise frequencies and channelling arrangements of Appendix 17 to the Radio Regulations, in accordance with Resolution 351 (Rev.WRC 07), in order to implement new digital technologies for the maritime mobile service;</i>
Proposed Modification by APT: No APT proposal was submitted to CPM11-2.
<p>Results of CPM11-2:</p> <p>The original draft CPM Report has single method, which does not specify bandwidths and channel arrangements for new digital technologies bands.</p> <p>US and Japan contributions (CPM11-2/99 and 121, which are exactly the same proposal) point out that the original draft CPM Report has several problems such that (1) MSI frequencies are not clearly indicated, (2) the retaining NBDP frequencies are not paired in certain band and also are not taken into account the existing NBDP public services, and (3) number of channels available for ship and coast stations in the new digital technologies bands are extremely unbalanced, resulting in difficulties to assign paired channels. The US and Japan propose the specific bandwidths and channel arrangements for new digital technologies solving the above problems. This proposal is included as the 2nd method (Method A2), while retaining the original method as Method A1.</p> <p>The Vietnam contribution (CPM11-2/82) proposes that the radiotelephone frequencies related to Appendix 25 should be clearly protected from the digitally modulated emissions specifically adding the notification to ITU when using digitally modulated emission in radiotelephone bands. It is identified that this concern is already covered by current RR; however to mitigate the concern, the new <i>hh</i>) is modified to specify that the digitally modulated emission is in accordance with the Recommendation ITU-R M.1798. This new <i>hh</i>) modification is applied to both Methods A1 and A2, renumbered to <i>gg</i>) for Method A2 though.</p> <p>The proposed CPM Report including above (CP-11-2/180+Cor.1+Cor.2) has been approved at the CPM plenary.</p>
<p>to Comments/Remarks by the Coordinator:</p> <p>The original draft CPM report does not specify the bandwidth and channel arrangements for new digital technologies. The preliminary APT view developed at APG2012-3 indicates that these should be specified in Appendix 17, and Japan proposed the specific bandwidths and channel arrangements at the APG2012-4 meeting (APG2012-4 /INP-82); however this did not reach a consensus due to the time constrains. The preliminary APT view developed at APG2012-4 still retains this; therefore it would be very much appreciated if APT members support Method A2 in the CPM Report.</p>

Outcomes of CPM11-2 Report of the Agenda Item Coordinator

Agenda Item: 1.10
Name of the Coordinator: Mr. Kenji FURUYAMA (J)
Issues: <i>to examine the frequency allocation requirements with regard to operation of safety systems for ships and ports and associated regulatory provisions, in accordance with Resolution 357 (WRC 07);</i>
Proposed Modification by APT: No APT proposal was submitted to CPM11-2.
<p>Results of CPM11-2:</p> <p>This Agenda Item includes four issues; Issue A - Regulatory status of AIS1 and AIS2, Issue B - satellite AIS, Issue C - broadcasts of safety and security information for ships and ports, and Issue D - RR Appendix 18 (increasing simplex channels and identifying digital bands). The main discussions were on Issue A and Issue D.</p> <p>The Issue A has two methods (Method A1 and Method A2) in the original draft CPM Report. The Method A2 modification is proposed by Russian Federation (CPM11-2/5) and Romania (CPM11-2/54) suggesting that the AIS1 and AIS2 frequency bands should be allocated to MMS on primary basis while maintaining current primary allocations to fixed and land mobile services by footnote. The Method A2 is replaced with this proposal.</p> <p>The Issue D has two methods (Method D1 and Method D2) in the original draft CPM Report. The Method D2 modification is proposed by Russian Federation (CPM11-2/85) suggesting that current footnote <i>o</i>) channels should be used for digital communications subject to coordination between affected Administrations, and also suggesting to identify 160.9 MHz for MOB channel. Furthermore, new two methods are proposed by US (CPM11-2/67) and China (CPM11-2/81). US proposes that (1) the footnote <i>m</i>) should be maintained to allow coordination between Administrations to avoid mutual interferences between MMS and LMS, (2) several Appendix 18 duplex channels were allowed for simplex use by the RRB decision after WRC-07, but this is not reflected in current Appendix 18 table; therefore this should be reintroduced in Appendix 18 table, and (3) the digital band should be identified within the current footnote <i>o</i>) channels, giving priority to digital use but limiting to 2 x 150 kHz. China proposes that digital band should be limited to 2 x 200 kHz and 160.9 MHz should be identified for MOB channel. These new proposals increased number of methods; therefore the great effort was made to reduce the number of methods. As the result, China proposal is incorporated into the Method D1 with adding new footnote <i>FFF</i>) to satisfy China position and the Methods have now become three.</p> <p>The proposed CPM Report including above has been approved at the CPM plenary with some editorial modifications offline.</p>
<p>Comments/Remarks by the Coordinator:</p> <p>The APT preliminary view developed at APG2012-4 meeting indicates that majority of APT members support Method D1 but some APT member proposed new method. However, the</p>

proposed new method at APG2012-4 has been incorporated into Method D1; therefore it is assumed that the Method D1 may be appropriate for APT members.

**Outcomes of CPM11-2
Report of the Agenda Item 1.11 Coordinator**

<p>Agenda Item: <i>1.11 to consider a primary allocation to the space research service (Earth-to-space) within the band 22.55-23.15 GHz, taking into account the results of ITU-R studies, in accordance with Resolution 753 (WRC-07)</i></p>
<p>Name of the Coordinator: Mr Richard Jacobsen (Australia)</p>
<p>Issues: There were no specific issues of concern to the APT members submitted to CPM11-2.</p>
<p>Proposed Modification by APT: No proposal for modification of the draft CPM text was submitted to CPM11-2 by APT.</p>
<p>Results of CPM11-2:</p> <p>Following the introduction of agenda item 1.11 at the first meeting of Working Group 4 on Monday 14 February 2011, this agenda item was assigned to a Special Working Group (SWG4b). It progressed very well within two meetings of SWG4b and an output was presented to Working Group 4 on Wednesday 16 February 2011 as CPM11-2/TEMP/6, where it was approved. Working Group 4 presented its output document on agenda item 1.11 to the CPM plenary for consideration as document CPM11-2/168. The CPM plenary approved document CPM11-2/168 at its meeting on 18 February 2011.</p> <p>In summary, the major outcomes approved by the CPM plenary as amendments to the text of the CPM Report to WRC-2012 were the deletion of Methods B and C (and associated consequential changes), leaving only one Method – a primary allocation to the SRS in the band 22.55-23.15 GHz. There was also agreement of a footnote defining a minimum separation distance of Space Research Service Earth stations from the border of neighbouring countries of 54km. These outcomes are compatible with the APT preliminary view for this agenda item.</p>
<p>Comments/Remarks by the Coordinator:</p> <p>The APT Preliminary View from APG2012-4 was as follows: “APT Members support a primary allocation in the band 22.55 – 23.15 GHz to the space research service (SRS) (Earth to space) in accordance with Resolution 753 (WRC-07). APT Members support Method A of the draft CPM Report and agree the inclusion of a footnote defining the minimum separation distance from the border of a neighbouring country, as outlined in the draft CPM Report.</p> <p>Some APT Members believe that the figure of 54 km, as recommended by WP7B in October 2010 to the Chairman of the CPM requires further consideration prior to next APG meeting, as the distance of 94km is also outlined in the draft CPM Report.”</p> <p>The results of the CPM11-2 will enable APT administrations to reiterate their support for the only method (Method A). All Administrations at the CPM11-2 approved the footnote defining an agreed separation distance of Space Research Service stations of 54 km from the border of neighbouring countries as confirmed by studies within ITU-R Working Party 7B. It</p>

is recommended that APT members at APG2012-5 agree to reflect the approved separation distance of 54km in the APT Preliminary View.

Outcomes of CPM11-2 Report of the Agenda Item Coordinator

Agenda Item: 1.12
Name of the Coordinator: Mr. Yutaka Sone, Japan
<p>Issues:</p> <p><i>1.12 to protect the primary services in the band 37-38 GHz from interference resulting from aeronautical mobile service operations, taking into account the results of ITU-R studies, in accordance with Resolution 754 (WRC-07);</i></p> <p><i>Resolution 754 (WRC-07): Consideration of modification of the aeronautical component of the mobile service allocation in the 37-38 GHz band for protection of other primary services in the band</i></p>
<p>Proposed Modification by APT:</p> <p>No modification proposal of draft CPM text was submitted to CPM11-2 by APT</p>
<p>Results of CPM11-2:</p> <p>There were two documents submitted to CPM11-2 under agenda item 1.12, one was expression of ICAO's preferred method (Method-B) and another was proposed modification of draft CPM text by USA.</p> <p>At the first meeting of Working Group4, most of the proposed modification was based on the result of new Report ITU-R M.2206 so that no objection was expressed except the proposed modification of second bullet in disadvantage of Method B, which was against the result of Report ITU-R M.2197. Therefore Ad Hoc group was set up to resolve this and the result was follows;</p> <p>WAIC applications using characteristics contained in Report ITU-R M.2197 will not be able to operate in this band.</p> <p>With this change, the document was approved by Working Group 4 (CPM11-2/166) and with another slight modification under 4/1.12/4.3</p> <p>In summary, the result of new Report ITU-R M.2206 was reflected to the CPM report and two methods are retained.</p>
<p>Comments/Remarks by the Coordinator:</p> <p>APT Preliminary Views of APG2012-4 meeting;</p> <p>APT Members support the sharing studies carried out by ITU-R with respect to the interference resulting from aeronautical mobile service to other primary services within the band 37–38 GHz. On the basis of the sharing studies conducted in the ITU-R Study Group 7, the majority of APT Members support Method A of the draft CPM report and propose to add “except aeronautical mobile” after the mobile service allocation in the bands 37-37.5 GHz and 37.5-38 GHz in the Table of Frequency Allocations in RR Article 5.</p> <p>APT Members support the suppression of Resolution 754 (WRC-07).</p>

Other Views of APG2012-4 meeting:

Since ITU-R Study Group 7 established pfd limit required to protect the SRS earth stations, FSS earth stations, and FS stations, some APT Members therefore support Method B.

Both Methods are retained in CPM text. So that further consideration is needed on which method should be supported and to develop APT Common Proposal.

Outcomes of CPM11-2 Report of the Agenda Item Coordinator

Agenda Item: 1.13
Name of the Coordinator: Hwang-Jae Rhee (Republic of Korea)
<p>Issues: <i>to consider the results of ITU-R studies in accordance with Resolution 551 (WRC-07) and decide on the spectrum usage of the 21.4-22 GHz band for the broadcasting-satellite service and the associated feeder-link bands in Regions 1 and 3;</i></p> <p>Resolution 551 (WRC-07): <i>Use of the band 21.4-22 GHz for broadcasting-satellite service and associated feeder-link bands in Regions 1 and 3</i></p>
<p>Proposed Modification by APT:</p> <p>5/1.13/5.1.2.1 <u>Some administrations were of the view that the principle of this Method, if it is workable, should be applied to all satellite networks in the frequency band 21.4-22.0 GHz registered to MIFR under RR Article 11.</u></p> <p>5/1.13/5.1.2.2, 5/1.13/5.1.2.3, 5/1.13/5.1.2.4 and 5/1.13/5.1.2.6 <u>Some administrations were of the view that a study on technical parameters for this Method has not been carried out in full by WP 4A. It means that the technical applicability of this Method should be confirmed by WP 4A before WRC-12.</u></p> <p>5/1.13/6.3 and 5/1.13/6.4 <u>A revised Rec BO.1213 or a new Recommendation with reference patterns for receiving earth station antennas in the 21.4-22 GHz band will be specified, and a revised Rec BO.1785 or a new Recommendation with reference permissible interference levels will be specified.</u></p>
<p>Results of CPM11-2:</p> <p>The work on the draft CPM text on WRC-12 Agenda item 1.13 was based on 12 contributions including APT proposals during CPM for WRC-12. The suggested amendments to the draft CPM text on Agenda item 1.13 were reflected in Document CPM11-2/201.</p> <ul style="list-style-type: none"> • APT's proposed modifications to the draft CPM Report on Agenda item 1.13 were reflected in the document with some editorial modifications. • With respect to regulatory mechanisms for the use of the BSS in the frequency band 21.4-22 GHz (intra-service issue), two new Methods were added. <ul style="list-style-type: none"> - Method H proposes restrictions on network parameters which might facilitate coordination of subsequent submissions. - Method C proposes no changes to the criteria for protection between Region 1 and 3 BSS networks but reducing the coordination arc from $\pm 16^\circ$ to $\pm 6^\circ$. - Former Method C was re-titled to Method G. • Regarding some issues on AI 1.13 identified by the CPM-11 Management Team, those were reflected in the document, methods to satisfy the agenda item (Section 5/1.13/5) and regulatory and procedural considerations (Section 5/1.13/6) which made the text formatting inconsistent with other agenda items and the text should be

reviewed during CPM11-2.

Comments/Remarks by the Coordinator:

It was noted in APG2012-4 meeting that issues for consideration at APG2012-5 meeting on WRC-12 Agenda item 1.13 were as follows in the document APG4-OUT-09:

6.1 To develop criteria for the protection of BSS receiving earth station from terrestrial station of neighboring countries (see section 4 above). In addition, for the protection of terrestrial receiving station from BSS space station, to consider whether the pfd value in section 4 would be used as a hard limit or coordination threshold.

6.2 To reconcile the Method(s) to satisfy agenda item with respect [to](#) intra-service issue, taking into account the results of CPM and the submissions received by the BR from APT Members in frequency band 21.4-22.0 GHz.

Outcomes of CPM11-2 Report of the Agenda Item Coordinator

Agenda Item: 1.14
Name of the Coordinator: Jinu UM
<p>Issues: Any possible allocation in the band 154-156MHz should be made under the condition that adequate protection for primary services to which the band is currently allocated has been provided. In Region 3, any constraints to the existing services and their future development shall not be caused by such allocation.</p>
<p>Proposed Modification by APT:</p> <ol style="list-style-type: none"> 1. Add following text to the disadvantages of Method A and B. <ul style="list-style-type: none"> - Region 3 currently does not intend to operate space-object detection radars in VHF band except a band allocated to the RLS on a secondary basis. Thus additional allocation to RLS in VHF band is not necessary in Region 3. 2. Add following text to the new footnote of Method C <ul style="list-style-type: none"> - For the identification of potentially affected administrations in Region 3, the I/N value of -6 dB (N=XXX dBW/4kHz) or -10 dB for applications with greater protection requirements, such as Public Protection and Disaster Relief (PPDR (N=YYY dBW/4kHz)) for 1% of time produced at 60 m above ground level at the border of the territory of any other administration shall be used
<p>Results of CPM11-2: For the addition of disadvantages in Method A and B, the proposed text from APT was reflected in the CPM text without any change. For the modification to Method C of the CPM report, APT and Russia had a different position regarding the identification of potentially affected administrations. However, APT and Russia had an off-line meeting and agreed to put both proposals as option 1 and 2. So the text from APT was reflected as option 2. The only change which was made is the specific value of Noise Power. At the 4th APG-12 meeting the value was not decided and described as XXX and YYY. Korean proposal to put an actual value of N as -161 dBW/4kHz was reflected in the text. The result is in Document CPM11-2/169-E</p>
<p>Comments/Remarks by the Coordinator: Main position of APT is Method D which is “No Change to the RR Article 5 and suppression of Resolution 611(WRC-07)”. In regard with Method C of the CPM text, there still remain two options for the footnote 5.C114 and it will be decided at the WRC-12. More discussion will be necessary at the 5th APG-12 meeting to reflect option 2 for Method C which was proposed by APT.</p>

Outcomes of CPM11-2 Report of the Agenda Item Coordinator

Agenda Item: 1.15
Name of the Coordinator: Prof. Satoshi Fujii (Japan)
Issues: <i>to consider possible allocations in the range 3-50 MHz to the radiolocation service for oceanographic radar applications, taking into account the results of ITU-R studies, in accordance with Resolution 612(WRC-07)</i>
<p>Proposed Modification by APT:</p> <p>APT proposed some modifications in the Document CPM11-2/47 to the draft CPM report as follows,</p> <ul style="list-style-type: none"> - addition of the existing frequency assignments of some APT countries and the notice of protection from harmful interference of oceanographic radars to the Table 1 and its comments in Summary portion, - deletion “all” from “all, some, or portions of frequency bands” in all methods (Method A,B, and, C), - addition new resolve about imposition of mitigation against interferences from oceanographic radars on administrations to Resolution 612, <p>and,</p> <ul style="list-style-type: none"> - several editorial changes.
<p>Results of CPM11-2:</p> <p>This agenda item was discussed in SWG2b and it progressed very well in four meetings. All proposals of APT are reflected to the output document of WG2b and WG2 with minor changes and the modification that the sentence concerning mitigation is moved to the recognizing part from the proposed resolve part. Then, the proposed CPM Report has been approved at the CPM plenary with a few editorial modifications.</p>
<p>Comments/Remarks by the Coordinator:</p> <p>Since the selection of candidate frequency bands for the methods were attributed on the work of WRC, and were not discussed in this CPM in detail to avoid unnecessary debate, there is large number of candidate frequency bands remaining in the all Methods A, B, and C of the report. To promote a maximum benefit for APT member states, the discussions about selections of frequency bands prior to the WRC-12 is required.</p> <p>The APT members kindly asked to discuss and decide which frequency bands are suitable for primary or secondary allocation at APG2012-5 meeting to have a firm common proposal to WRC-12 on this issue..</p>

Outcomes of CPM11-2 Report of the Agenda Item Coordinator

Agenda Item: 1.16
Name of the Coordinator: HyunSoo Chung (Rep. of Korea)
<p>Issues:</p> <p>to consider the needs of passive systems for lightning detection in the meteorological aids service, including the possibility of an allocation in the frequency range below 20 kHz, with Resolution 671 (WRC-07)</p>
Proposed Modification by APT: NO
<p>Results of CPM11-2:</p> <p>CPM texts were finalized in the WP4 level and successfully created the output document CPM/167. This document CPM11-2/167 was approved in the CPM plenary 2nd meeting on 18 February 2011.</p> <p><u>Main results of AI 1.16 (MOD 5.53, 5.54 and ADD 5.A116, B.116)</u></p> <ol style="list-style-type: none"> 1) Use of the band by the meteorological aids service is changed from 9-11.3kHz to 8.3-11.3kHz. And add two new footnotes. 2) ADD 5.A116 Use of the band 8.3-11.3 kHz by the meteorological aids service is limited to passive use only. In the 9-11.3 kHz band meteorological aids stations shall not claim protection from stations of the radionavigation service submitted for notification to the Bureau prior to [the date of entry into force of WRC-12 Final Acts]. For sharing between stations of the meteorological aids service and stations in the radionavigation service submitted after this date the most recent version of Recommendation ITU-R RS.1881 should be applied. 3) ADD 5.B116 <i>Additional allocation:</i> in the Russian Federation, the frequency band 8.3-9 kHz is also allocated to the radionavigation, fixed and mobile services on a primary basis.
<p>Comments/Remarks by the Coordinator:</p> <p>APT members at the 4th meeting supported the results of ITU-R studies in accordance with Resolution 671 (WRC-07) and single method of draft CPM report on this agenda item. APT members agreed that a new allocation be made for the meteorological aids service in frequency band 9-11.3 kHz on a co-primary basis with the radionavigation service. However, since lightning detection systems are based on a 3 kHz signal, an allocation would have to cover the 8.3-11.3 kHz range to fully protect these systems.</p> <p>Issues for Consideration at APG2012-5 Meeting:</p> <p>With regard to possible allocation between 8.3 and 9 kHz to MetAids service, APT members may consider this matter in the next APG 5th meeting with due regard to the results of discussions in CPM11-2 meeting.</p>

Outcomes of CPM11-2 Report of the Agenda Item Coordinator

Agenda Item: 1.17
Name of the Coordinator: Kyung-Mee Kim (Republic of Korea)
Issues: <i>to consider results of sharing studies between the mobile service and other services in the band 790-862 MHz in Regions 1 and 3, in accordance with Resolution 749 (WRC-07), to ensure the adequate protection of services to which this frequency band is allocated, and take appropriate action;</i>
Proposed Modification by APT: APT proposed the deletion of the draft new Resolution JTG [5-6] from the draft CPM Report and relevant modifications to the text in line with the proposal.
Results of CPM11-2: Some European countries proposed to develop two options, NOC and the addition of draft new Resolution JTG [5-6] for issues between Region 1 and Region 3 countries, while APT Members did not support to have the option other than NOC. After a lengthy discussion, APT Members reluctantly agreed to have two options with a condition to downgrading of the draft new Resolution JTG [5-6] to Recommendation JTG [5-6] with a footnote having reservation by APT Members. The footnote reads: Region 3 administrations that are not Contracting Members of the GE06 Agreement in attendance at CPM11-2 are of the view that there should be no regulatory outcomes in relation to Agenda item 1.17 that impact on the band 790-862 MHz in Region 3.
Comments/Remarks by the Coordinator: It is noted that the draft Recommendation JTG [5-6] still addresses issues for ARNS and FS as well as BS in <i>recommends</i> and emphasizes the coordination needed with all neighboring administrations prior to implementing IMT in the bands 790-862 MHz in accordance with Resolution 224 (Rev.WRC-07) in <i>noting</i> . Therefore APT countries need to develop the APT Common View to propose deletion of draft Recommendation JTG [5-6] in next APG12-5 meeting.

Outcomes of CPM11-2 Report of the Agenda Item 1.18 Coordinator

Agenda Item: 1.18 *to consider extending the existing primary and secondary radiodetermination-satellite service (space-to-Earth) allocations in the band 2 483.5-2 500 MHz in order to make a global primary allocation, and to determine the necessary regulatory provisions based upon the results of ITU-R studies, in accordance with Resolution 613 (WRC-07);*

Resolution 613 (WRC-07): Global primary allocation to the radiodetermination-satellite service in the frequency band 2 483.5-2 500 MHz (space-to-Earth)

Name of the Coordinator: Zhao xiaodong (China)

Issues:

As global satellite navigation system requires harmonized allocation with equal primary basis , WRC-07 agreed a new agenda item for WRC-11 to consider extending the existing primary and secondary radiodetermination-satellite service (space-to-Earth) allocations in the band 2 483.5-2 500 MHz to make a global primary allocation, in accordance with Resolution 613 (WRC-07).

There were no critical or controversial issues with this Agenda item in this CPM11-2 meeting, there was only one method in the final CPM11-2 report about this agenda item.

Proposed Modification by APT:

The APT had no proposals for the modification of the draft CPM in the HONG KONG 4th APT meeting.

Results of CPM11-2:

The results of CPM11-2 were as the same of APT preliminary views about this agenda item in general.

In the draft meeting (CPM11-2 WG5C), Russian proposed all the region 3 countries to protect their radio location service (the second basis in Russian), in the APT coordination meeting the WG5 Chairman Mr. Abe reminded the APT member states to pay attention to this issue, and specially hosted a small meeting in his office with China, and also, in his chaired WG5 plenary meeting he suggested to give more time for the APT countries to think about this issue, under his help, the concerned APT countries (China, India) acquired the opportunities to have the detailed offline discussions with Russian and France, finally, the problem had been resolved successfully (see the footnote 5.399 of CPM11-2, agenda item1.18).

Comments/Remarks by the Coordinator:

The CPM11-2 results about this agenda item were in accordance with the APT preliminary views, so the APT should support the CPM11-2 report in the future WRC-12.

It should also to remind the APT countries to pay attention to the next two ITU-R WP4C meetings in this year which will concern with the raising of GLOBLE STAR threshold trigger level. Because this trigger level raising will affect some of the services in region 3, so it needs the further analysis between the MSS and other services, and so requests the APT countries to conduct this studies about this issue in the ITU-R WP4C meetings.

Outcomes of CPM11-2 Report of the Agenda Item Coordinator

Agenda Item: 1.19
Name of the Coordinator: Mr. Lang Baozhen(China)
<p>Issues: <i>“to consider regulatory measures and their relevance, in order to enable the introduction of software-defined radio and cognitive radio systems, based on the results of ITU-R studies, in accordance with Resolution 956 (WRC-07)”</i></p>
<p>Proposed Modification by APT:</p> <p>APT proposed some modifications in the Document CPM11-2/47 to the draft CPM report as follows,</p> <ul style="list-style-type: none"> - Merging the issue B option A and Option B with respect to CRS due to simplification and reduction of CPM text. - Deletion the radio communication services list of resolves 2 of the WRC resolution under Method B2 - Some editorial changes.
<p>Results of CPM11-2:</p> <p>Three meeting sessions of Sub working group Agenda item 1.19 has been held during the CPM12-02. CEPT countries and United States disagree to accept this merging of option A and B under method B1. With the permission of APT coordination meeting, APT agrees to keep the text under Method B1 as it is. With respect to deletion the radio communication services list of resolves 2 of the WRC resolution, because the Russia Federation and some other administrations insisted to keep the list, as a compromised result, both of these two options have been kept in the CPM text after long discussion. The editorial changes of APT contribution have almost been accepted by the meeting.</p>
<p>Comments/Remarks by the Coordinator:</p> <p>The ITU-R Resolution of option B under method B1 will be further developed at the coming WP1B meeting in June 2011 before consideration by RA-12 in January 2012, therefore the APT members are encouraged to review the current version of the ITU-R resolution and to join the next WP1B meeting activities.</p>

Outcomes of CPM11-2 Report of the Agenda Item Coordinator

Agenda Item: 1.20
Name of the Coordinator: Jong-Min PARK (Republic of Korea)
Issues: <i>to consider the results of ITU studies and spectrum identification for gateway links for high altitude platform stations (HAPS) in the range 5850 – 7075 MHz in order to support operations in the fixed and mobile services, in accordance with Resolution 734 (Rev.WRC-07);</i>
Proposed Modification by APT: None
Results of CPM11-2: <ul style="list-style-type: none"> ○ The Advantages/Disadvantages for each Method were modified. ○ Under the Method B: <ul style="list-style-type: none"> ✓ For new identification of HAPS gateway links, the bands of 6 440 – 6 520 MHz (down) and 6 560 – 6 640 MHz (up) were specified for preferable sub-bands within the range 5 850 – 6 725 MHz; ✓ The proposed No.5.A120 was modified so that HAPS gateway links shall operate on a non-protection basis without application of No.5.43A. However, there was still another view that a non-interference, non-protection basis shall be applied. ✓ The operational limits applied to HAPS gateway links in order to protect the FSS space receiver and the NGSO/MSS feeder links were modified taking into account recent ITU-R study results. However, Editor's notes were added for further consideration of the values by ITU-R. ✓ In the regulatory and procedural considerations, notification procedure was added to examine the compliance with hard limits provided in the proposed Resolution [A120-HAPS-GATEWAY].
Comments/Remarks by the Coordinator: APT Members are encouraged to review the CPM Report and contribute to the final meeting of APG2012 held in Korea (Rep. of).

Outcomes of CPM11-2 Report of the Agenda Item Coordinator

<p>Agenda Item: 1.21</p>
<p>Name of the Coordinator: Bui Ha Long (S.R. of Vietnam)</p>
<p>Issues: <i>to consider a primary allocation to the radiolocation service in the band 15.4-15.7 GHz, taking into account the results of ITU-R studies, in accordance with Resolution 614 (WRC-07);</i> Resolution 614 (WRC-07): <i>Use of the band 15.4-15.7 GHz by the radiolocation service</i></p>
<p>Proposed Modification by APT: No APT proposal was submitted to the CPM11-2</p>
<p>Results of CPM11-2: The original draft CPM report has three methods proposed to satisfy this agenda item, Ukraine's contribution proposed modifications to Methods A, B, C and addition of Method D into Agenda Item 1.21, China also submit a modification proposal, and Administrations discussed on them.</p> <p>All four methods proposed to satisfy this agenda item include suppression of Resolution 614 (WRC-07):</p> <ul style="list-style-type: none"> – Method A proposes a new primary allocation for the RLS in the 15.4 - 15.7 GHz frequency band and a possible resolution providing further clarification on the use of this band as well as taking practical steps to protect ARNS and RAS in the adjacent 15.35 - 15.4 GHz frequency band; – Method B proposes a new primary allocation for the RLS in the 15.5 - 15.7 GHz frequency band and a possible resolution providing further clarification on the use of this band as well as taking practical steps to protect ARNS and RAS in the adjacent 15.35 - 15.4 GHz frequency band; – Method C proposes a new primary allocation for the RLS in the 15.55 - 15.7 GHz frequency band and a possible resolution for protection of ARNS and RAS systems in the adjacent band. <input type="checkbox"/> Method D proposes no changes to the Radio Regulations.
<p>Comments/Remarks by the Coordinator: CPM11-2 Sub Working Group 2c was dealing with agenda Item 1.21, and with very good progress SWG2c needed only one meeting session to finish the modification of draft CPM report, with a minor issue is the introduction of one new method, Method D that proposes no change to the Radio Regulations and suppress the relevant Resolution 614. The other issue is the meeting goes to edit advantage and disadvantage of each 3 methods focus on interference with RAS and ARNS</p> <p>The APT view at APG-4 meeting (APG4-OUT-14) is adequate to Method A, and no APT proposal was submitted to the CPM11-2.</p>

Outcomes of CPM11-2 Report of the Agenda Item Coordinator

Agenda Item: 1.23
Name of the Coordinator: Prof. Rhee, Joong Geun (KOR)
<p>Issues:</p> <p><i>to consider an allocation of about 15 kHz in parts of the band 415-526.5 kHz to the amateur service on a secondary basis, taking into account the need to protect existing services</i></p>
<p>Proposed Modification by APT:</p> <p>None</p>
<p>Results of CPM11-2:</p> <p>2/1.23/1 Executive summary</p> <p>The frequency band 415-526.5 kHz provides unique ground-wave propagation characteristics well suited for present and potential future systems in incumbent services, as well as a secondary allocation to the ARS.</p> <p>After taking studies into account, the following methods to satisfy this agenda item have been proposed:</p> <p>Method A A secondary allocation of up to 15 kHz to the ARS on a worldwide basis between 472 kHz and 487 kHz.</p> <p>Method B Two non-contiguous worldwide secondary allocations to the ARS at 461-469 kHz and 471-478 kHz, totalling 15 kHz.</p> <p>Method C No change to the Radio Regulations.</p>
<p>Comments/Remarks by the Coordinator:</p> <p>Regarding the latest common views of APT members discussed at the APG2012-4 meeting in Hong Kong, there are following issues which need to be noticed by APT members:</p> <ol style="list-style-type: none"> 1) As stated in the Document APG2012-4/OUT-15(Rev.1) 17 December 2010, "APT members consider that Method A in the Draft CPM Report is not an option.", this was accepted and approved at the final meeting. Therefore we have now new Method A, B, and C. 2) There were no specific detailed discussions on the method of protection measures for sharing with the incumbent services.

Outcomes of CPM11-2 Report of the Agenda Item Coordinator

Agenda Item: 2
Name of the Coordinator: Akira Hashimoto (Japan)
Issues: to examine the revised ITU-R Recommendations incorporated by reference in the Radio Regulations communicated by the Radiocommunication Assembly, in accordance with Resolution 28 (Rev.WRC-03) , and to decide whether or not to update the corresponding references in the Radio Regulations, in accordance with principles contained in the Annex 1 to Resolution 27 (Rev.WRC-07) ;
Proposed Modification by APT: None
Results of CPM11-2: The work on this AI was conducted within Sub-Working Group 6c chaired by Akira Hashimoto, the APT Coordinator on this topic. Through the discussion over the two meetings, the SWG produced Document CPM11-2/TEMP/14, which includes 3 new sections in the CPM Report each providing the followings: <ul style="list-style-type: none"> - a list of those ITU-R Recommendations incorporated by reference in the R.R., for which revision has been approved during the elapsed study period since 2007; - A cross-reference Table between ITU-R Recommendations, incorporated by reference and contained in RR Volume 4, and RR provisions, footnotes and Resolutions where they are referenced (it has been proposed to include such a Table in future version of RR Volume 4); - List of RR provisions and footnotes or WRC Resolutions, containing references to ITU-R Recommendations. These texts are developed based on the BR's input (Document CPM11-2/33) and other new inputs from the membership received at this CPM meeting. The above TEPM was adopted at the 4 th WG6 meeting, and was subsequently approved at the 2 nd CPM Plenary on 18 th February 2011 as Document CPM11-2/177 without any changes.
Comments/Remarks by the Coordinator: The APT Coordinator, also as Chairman of the relevant SWG, wishes to express his thanks to the APT member countries for their participation and cooperation during the meetings. The output developed at this CPM11-2 will be a good basis for our discussion and consideration at the APG-5 meeting in August/September this year.

Outcomes of CPM11-2 Report of the Agenda Item Coordinator

Agenda Item: 4
Name of the Coordinator: Akira Hashimoto (Japan)
Issues: In accordance with Resolution 95 (Rev.WRC-07) , to review the resolutions and recommendations of previous conferences with a view to their possible revision, replacement or abrogation;
Proposed Modification by APT: None
Results of CPM11-2: The work on this AI was conducted within Sub-Working Group 6d chaired by Akira Hashimoto, the APT Coordinator on this topic. The SWG adopted the following approach in revising the Table of WRC Resolutions/Recommendations based on the initial study by the BR in Document CPM11-2/32: <ul style="list-style-type: none"> - Within the scope of Resolution 95 (Rev.WRC-07), to present a new “possible follow-up” proposed in the input contributions received at this CPM meeting with the reason in the “Remark” column; - For Resolutions for which two (or three) “possible follow-up” (e.g. NOC/MOD) have been indicated, to create a separate rows for “Remark” column, as far as possible, providing the corresponding reasons; - Not to consider those Resolutions that are explicitly on the Agenda items of WRC-12 other than Agenda item 4; - To include the texts for modifications to certain Resolutions/Recommendations in the Annex for information, which are proposed in the contribution from Member States. <p>Through the discussion over the two meetings, the SWG produced Document CPM11-2/TEMP/17, which provides a revised Table indicating “possible follow-up” for each Res./Rec. as suggested course of action(s) at the coming WRC-12.</p> <p>The above TEPM was adopted at the 4th WG6 meeting, and was subsequently approved at the 2nd CPM Plenary on 18th February 2011 as Document CPM11-2/178 without any changes.</p>
Comments/Remarks by the Coordinator: The APT Coordinator, also as Chairman of the relevant SWG, wishes to express his thanks to the APT member countries for their participation and cooperation during the meetings. The output developed at this CPM11-2 will be a good basis for our discussion and consideration at the APG-5 meeting in August/September this year.

Outcomes of CPM11-2 Report of the Agenda Item Coordinator

Agenda Item: 7
Name of the Coordinator: GAO Xiaoyang (CHINA)
Issues: <i>to consider possible changes in response to Resolution 86 (Rev. Marrakesh, 2002) of the Plenipotentiary Conference: "Advance publication, coordination, notification and recording procedures for frequency assignments pertaining to satellite networks", in accordance with Resolution 86 (Rev.WRC-07)</i>
<p>Proposed Modification by APT: In order for clear understanding of the issue, the APT submitted a contribution through the Document CPM11-2/47 on the original issue C the number of which was agreed by the CPM11-2 meeting with reordering of the issue group together with a new issue number as follows: Group 2: Issues related to publication and coordination process/trigger Issue 2A: Application of the coordination arc trigger and of RR No. 9.41 in the GSO/GSO FSS coordination under RR No. 9.7 in the frequency bands 6/4 GHz and 14/10/11/12 GHz</p>
<p>Results of CPM11-2: It is noted that APT has not yet decided any position to this issue, however, proposes the modifications to the text in section 5/7/3 of the draft CPM Report in order to improve its texts for the clear understanding of this issue.</p> <p>Based on discussions, the CPM11-2 meeting modified the draft CPM Report appropriately, and agreed four updated Methods to satisfy this issue 2A where the RR No.9.41 could be applied in all these methods.</p>
<p>Comments/Remarks by the Coordinator: It should be highlighted that these complex satellite technical and regulatory issues under Chapter 5 in the CPM Report should be reviewed and studied further in order for the Members of APG to finalize the common view.</p> <p>For this purpose, APT Members are invited to submit their contributions by carrying out necessary studies for further considerations in the next APG-5 meeting including those of ITU-R.</p>

Outcomes of CPM11-2 Report of the Agenda Item Coordinator

<p>Agenda Item: 8.1 <i>to consider and approve the Report of the Director of the Radiocommunication Bureau:</i></p>
<p>Name of the Coordinator: Chungsang RYU (KOR)</p>
<p>Issues: 8.1.1 <i>on the activities of the Radiocommunication Sector since WRC 07;</i> <i>(Issue A) Resolution 63 (Rev.WRC-07): Protection of radiocommunication services against interference caused by radiation from industrial, scientific and medical (ISM) equipment</i></p>
<p>Proposed Modification by APT:</p> <p>MOD</p> <p style="text-align: center;">RESOLUTION 63 (Rev.WRC-07<u>12</u>)</p> <p style="text-align: center;">Protection of radiocommunication services against interference caused by radiation from industrial, scientific and medical (ISM) equipment*</p> <p>The World Radiocommunication Conference (Geneva, 2007<u>12</u>),</p> <p style="text-align: center;"><i>considering</i></p> <p><i>h)</i> <u>that current and future radiocommunication systems are adopting digital technologies and the current emission limits of CISPR Publication 11 do not properly take into account the protection of criteria for these digital radiocommunication services using these digital systems into account.</u></p> <p style="text-align: center;"><i>recognizing</i></p> <p><u>that there are ITU-R Recommendations provide protection criteria for radiocommunication services using various technologies and standards for digital radiocommunication systems.</u></p> <p style="text-align: center;"><i>noting</i></p> <p><u>that certain digital radiocommunication systems use lower transmission power taking into account the robustness of the receivers.</u></p>
<p>Results of CPM11-2:</p> <p>MOD</p> <p style="text-align: center;">RESOLUTION 63 (Rev.WRC-07<u>12</u>)</p> <p style="text-align: center;">Protection of radiocommunication services against interference caused by radiation from industrial, scientific and medical (ISM) equipment</p> <p>The World Radiocommunication Conference (Geneva, 2007<u>12</u>),</p>

considering

- a) that ISM applications are defined under [RR-No. 1.15](#) as “operation of equipment or appliances designed to generate and use locally radio frequency energy for industrial, scientific, medical, domestic or similar purposes, excluding applications in the field of *telecommunications*”;
- b) that ISM equipment may be situated in locations where outward radiation cannot always be avoided;
- c) that there is an increasing amount of ISM equipment working on various frequencies throughout the spectrum;
- d) that in some cases a considerable part of the energy may be radiated by ISM equipment outside its working frequency;
- e) that Recommendation ITU-R SM.1056 recommends to administrations the use of International Special Committee on Radio Interference (CISPR) Publication 11 as a guide for ISM equipment to protect radiocommunication services, but that CISPR 11 does not yet fully specify radiation limits for all frequency bands;
- f) that some radio [servicesystems](#), especially those using low field strengths, may suffer interference caused by radiation from ISM equipment, a risk which is unacceptable particularly in the case of [systems belonging to](#) radionavigation or other safety services;
- g) that, in order to limit the risks of interference to specified parts of the spectrum:
- the preceding Radio Conferences of Atlantic City, 1947, and Geneva, 1959, designated some frequency bands within which the radiocommunication services must accept harmful interference produced by ISM equipment;
 - WARC-79 accepted an increase in the number of bands to be designated for ISM equipment, but only on the condition that limits of radiation from such equipment be specified within the bands newly designated for worldwide use and outside all the bands designated for ISM equipment;
- [h\) that current evolution of digital technologies used in radiocommunication systems may require continuous review of CISPR Publication 11.](#)

recognizing

[that there are various technologies and standards for digital radiocommunication systems,](#)

noting

[that certain digital radiocommunication systems use low transmission power and the receivers of these systems may be more sensitive to the interference from ISM equipment,](#)

resolves

that, to ensure that radiocommunication services are adequately protected, studies are required on the limits to be imposed on the radiation from ISM equipment within the frequency bands designated in the Radio Regulations for this use and outside of those bands,

invites ITU-R

- [1 to provide the necessary interference criteria of relevant digital radiocommunication systems to enable CISPR to review the limit of radiation from ISM equipment;](#)
- [2 to continue, in collaboration with CISPR, its studies relating to radiation from ISM equipment within the frequency bands designated in the Radio Regulations for this use and outside of those bands in order to ensure adequate protection of radiocommunication services, with priority being given to the completion of studies which would permit CISPR to define limits in Publication CISPR 11 on radiation from ISM equipment inside all the bands designated in the Radio Regulations for the use of such equipment,](#)

instructs the Director of the Radiocommunication Bureau

- [1 to bring this Resolution to the attention of CISPR;](#)
- [2 to provide the results of these studies to WRC-11 for its consideration.](#)

Comments/Remarks by the Coordinator:

For AI 8.1.1 (Issue A)

Documents : CPM11-2/1, 47, CPM11-2/TEMP/19, CPM11-2/182(Output)

Meetings: Working Group 6(chaired by Mr. A.Zourmba), Drafting Group 6E(chaired by Dr. C.RYU)

Discussion: The *considering h*) proposed for modification by APT was redrafted by reflecting the opinion from Canadian delegate to have moderate expression keeping the context. The proposed modification of *recognizing* was decided to retain the original proposed modification of the text reflecting the suggestion from USA delegate supported by all the participants, that the original text is more relative to the *resolves* part. The proposed text for the new *noting* was redrafted to clarify the purpose of proposal reflecting the opinion from Russian delegate.

For AI 8.1.1 (Issue B)

Documents: CPM11-2/1, 182(Output)

Meetings: Working Group 6

Discussion: No contribution was received by CPM11-2 and the BR will consider the issue and report to WRC-12

For AI 8.1.1 (Issue C)

Related Document: CPM11-2/1, 30, 50, 148, CPM11-2/TEMP/20, CPM11-2/181(Output)

Related Meeting: Working Group 6(chaired by Mr. A.Zourmba), Drafting Group 6F(chaired by Mr. P. Tristant)

Discussion: Two issues have been discussed. One is whether to have a new provision in the RR to address the importance of the role of earth observation services. The second is to revise the Resolution 673 to study the protection means and possible additional frequency for the purpose of earth observation. APT has no firm position on this issue but just supporting the result of ITU-R study.

For AI 8.1.2

Documents: CPM11-2/1, 34, 61, CPM11-2/TEMP/4, CPM11-2/173(Output)

Meetings: Working Group 6

Discussion: decided to invite BR through the CPM report, to include the proposals in the Document CPM11-2/61 in the Director's Report to WRC-12

For AI 8.1.3

Documents: CPM11-2/1, 173(Output)

Meetings: Working Group 6

Discussion: No contribution was received by CPM11-2 and the CPM text is remained as it was.

Outcomes of CPM11-2 Report of the Agenda Item Coordinator

Agenda Item: 8.2
Name of the Coordinator: Hiroyo Ogawa (Japan)
Issues: <i>to recommend to the Council items for inclusion in the agenda for the next WRC, and to give its views on the preliminary agenda for the subsequent conference and on possible agenda items for future conferences, taking into account Resolution 806 (WRC-07),</i>
Proposed Modification by APT: No proposal for modification of the draft CPM text, but APG2012-4 submitted APT Common View on AI8.2 as an information document to CPM11-2 (Document CPM11-2/48-E).
Results of CPM11-2: The input document number of APT contribution was inserted as a hyperlink in the CPM Report, Chapter 6, Agenda Item 8.2, as follows: “Some suggestions for agenda items currently under consideration for inclusion on the agenda for WRC-15 were submitted to the CPM and noted here for information purposes (Documents CPM11-2/ 11 , 48 , 50 , 77 , 78 and 102).“ In addition to the hyperlink of the input document number, the websites of agenda items for WRC-15 of regional organizations (ATU, ASMG, APT, CITEL, CEPT, RCC) were included in the CPM Report.
Comments/Remarks by the Coordinator: APT members are encouraged to review not only APT Preliminary view but also the input document to CPM11-2 as well as the proposal from regional organizations.