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|  | ASIA-PACIFIC TELECOMMUNITY | Document No: |
| **The 6th Meeting of the APT Conference Preparatory Group for WRC-23 (APG23-6)** | **APG23-6/OUT-47** |
| 14 – 19 August 2023, Brisbane, Australia | 19 August 2023 |

Working Party 4

**APT VIEW and Preliminary APT Common Proposal**

**on WRC-23 agenda item 7 (TOPIC G)**

**Agenda Item 7:**

*to consider possible changes, in response to Resolution 86 (Rev. Marrakesh, 2002) of the Plenipotentiary Conference, on advance publication, coordination, notification and recording procedures for frequency assignments pertaining to satellite networks, in accordance with Resolution* ***86 (Rev.WRC-07)****, in order to facilitate the rational, efficient and economical use of radio frequencies and any associated orbits, including the geostationary-satellite orbit.*

# Topic G: Amendments to Res. 770 (WRC-19)

**1. Background**

* In addressing the *invites* of Resolution **770 (WRC-19)** to provide a functional description to implement the methodology contained in that Resolution, it has been determined that additional information is required to allow for a proper implementation. That is, corrections or clarifications need to be made to Resolution **770 (WRC-19)** before it can be consistently applied, some of which are regulatory in nature.
* The WD towards a preliminary draft new Recommendation ITU-R S.[RES 770] includes the compilation of relevant studies and results. Based on this work, it has been recognized that some modifications to Resolution **770 (WRC-19)** are required to allow for its implementation.
* ITU-R studies showed the need to implement such guidance in this Resolution.
* Include the value of speed of light: 2.99792458 x 105 km/s
* Modify the lower value for prain (unavailability of the link without interference) in (Step 0-10) as 0.01% instead of 0.001%
* Determine procedural and regulatory provisions to ensure that administrations having submitted CR/Cs and/or notifications before 15 December 2023 are given the opportunity to rectify the data already submitted (e.g. pfd and e.i.r.p. masks used to compute epfd statistics at the victim GSO receiver by applying the methodology contained in Recommendation ITU-R S.1503) based upon which the methodology in Resolution **770 (WRC-19)** is applied.
* There are 3 methods shown in Section 4/7/7.4 of the [final CPM Report](https://www.itu.int/dms_pub/itu-r/md/19/cpm23.2/r/R19-CPM23.2-R-0001!!MSW-E.docx):
  + Method G1: No changes to Resolution **770 (WRC-19)**.
  + Method G2: Modify Resolution **770 (WRC-19)** to allow for its implementation.
  + Method G3: Remove Annex 2 from Resolution **770 (WRC-19)** and move it to a new Recommendation which would be incorporated by reference in Resolution **770 (WRC-19)**.

**2. Documents**

* Input Documents AP23-6/[INP-39(J)](https://www.apt.int/sites/default/files/2023/08/APG23-6-INP-39_Japan_WP4_Views_WRC-23_Agenda_Item_7.docx), [INP-50(INS)](https://www.apt.int/sites/default/files/2023/08/APG23-6-INP-50_Indonesia_WP4_PACP_WRC-23_Agenda_Items.docx), [INP-61(THA)](https://www.apt.int/sites/default/files/2023/08/APG23-6-INP-61_Thailand_WP4_PACP_WRC-23_Agenda_Items.docx), [INP-68(IRN)](https://www.apt.int/sites/default/files/2023/08/APG23-6-INP-68_Iran_WP4_Preliminary_Views_on_WRC-23_Agenda_Items.docx), [INP-83(AUS)](https://www.apt.int/sites/default/files/2023/08/APG23-6-INP-83_Australia_WP4_PACP_WRC-23_Agenda_Items.docx), [INP-90(Rev.1)(KOR)](https://www.apt.int/sites/default/files/2023/08/APG23-6-INP-90R1_KOR_WP4_PACP_WRC-23_Agenda_Items.docx), [INP-106(CHN)](https://www.apt.int/sites/default/files/2023/08/APG23-6-INP-106_China_WP4_PACP_WRC-23_Agenda_Items.docx), [INP-112(MLA)](https://www.apt.int/sites/default/files/2023/08/APG23-6-INP-112_Malaysia_WP4_PACP_WRC-23_Agenda_Items.docx), [INP-120(VTN)](https://www.apt.int/sites/default/files/2023/08/APG23-6-INP-120_VietNam_WP4_PACP_WRC-23_Agenda_Items.docx)
* Information Documents APG23-6/[INF-35(Chairs of DG 7)](https://www.apt.int/sites/default/files/2023/08/APG23-6-INF-35_Brief_on_AI_7.docx), [INF-45(RCC)](https://www.apt.int/sites/default/files/2023/08/APG23-6-INF-45_Status_of_RCC_preparation_to_WRC-23.pdf), [INF-46(CEPT)](https://www.apt.int/sites/default/files/2023/08/APG23-6-INF-46_Status_of_CEPT_preparation_for_WRC-23_and_RA-23.pdf), [INF-52(CITEL)](https://www.apt.int/sites/default/files/2023/08/APG23-6-INF-52_CITEL_preparation_for_WRC-23.pdf)

**3. Summary of discussions**

**3.1 Summary of APT Members’ views**

**3.1.1 Japan - Document APG23-6/INP-39**

* For **Topic G**, Japan supports possible modifications to Resolution **770 (WRC-19)**. Method G2 can be supported.

**3.1.2 Indonesia (Republic of) - Document APG23-6/INP-50**

* Indonesia considers modification of Resolution 770 (WRC-19) as a possible solution to address difficulties in application of Article 22 ITU Radio Regulations to the protection of geostationary fixed-satellite service and broadcasting-satellite service networks from non-geostationary fixed-satellite service systems in the frequency bands 37.5-39.5 GHz, 39.5-42.5 GHz, 47.2-50.2 GHz and 50.4-51.4 GHz due to insufficient parameters in Resolution 770 (WRC-19) with respect to the Rec. ITU-R S.2131 and Rec. ITU-R P.618-13.
* Therefore, Indonesia supports Method G2, in order to modify the Resolution 770 (WRC-19) to allow for its implementation in a single document.

**3.1.3 Thailand (Kingdom of) – Document APG23-6/INP-61**

* Thailand supports modifications to Resolution 770 (WRC-19) in order to eliminate difficulties applying this Resolution as indicated in Method G3 in the CPM Report.



**3.1.4 Iran (Islamic Republic of) – Document APG23-6/INP-68**

* Islamic Republic of Iran supports the Method G2, as contained in the draft CPM 23-2 Report;
* The Islamic Republic also could consider Method G3, if the subject Recommendation recently agreed by Study Group 4 is adopted and approved before WRC-23 and referred to in the Resolution **770 (WRC-19);**
* Islamic Republic of Iran proposes a Preliminary APT Common Proposal for Method G2 in the CPM Report as follows:



**3.1.5 Australia – Document APG23-6/INP-83**

* Australia could accept either method G2 or G3 in the proposed in CPM Report.
* Australia does not propose a Preliminary APT Common Proposal for this topic.

**3.1.6 Korea (Republic of) – Document APG23-6/INP-90(Rev.1)**

* As the Republic of Korea supports possible modifications to Resolution **770 (WRC-19)** to make its implementation feasible based on results of ITU-R studies, among the methods presented in the CPM Report, Method G3 is supported.

**3.1.7 China (People’s Republic of) – Document APG23-6/INP-106**

* China supports modification of Resolution **770 (WRC‐19)** to facilitate the implementation of the methodology contained in that Resolution, and is in favor of Method G3 presented in the CPM Report.

**3.1.8 Malaysia – Document APG23-6/INP-112**

* Malaysia supports regulatory corrections and clarifications related to the implementation of the methodology contained in Resolution **770 (WRC-19)** before it can be consistently applied.

**3.1.9 Viet Nam (Socialist Republic of) – Document APG23-6/INP-120**

* Vietnam supports method G2 which proposes that the editorial and regulatory modifications are included in a revision of Resolution **770 (WRC‑19**) to allow its implementation.

*Reasons: It would be appropriate to provide for the above-mentioned regulatory corrections and clarifications related to the implementation of the methodology contained in Resolution****770 (WRC‑19).***

**3.2 Summary of issues raised during the meeting**

* None.

**4. APT View(s)**

* APT Members support possible modifications to Resolution **770 (WRC-19)** to make its implementation feasible based on results of ITU-R studies.
* APT Members support Method G3 in the CPM Report.

**5. Preliminary APT Common Proposal**



**6. Issues for Consideration at APG Coordination Meeting at WRC-23 (if any)**

* None.

**7. Views from Other Organisations**

**7.1 Regional Groups**

**7.1.1 ASMG – (as of February 2023)**

* Support amending Resolution **770 (WRC-19)** and follow the discussions on this subject to ensure that there is no impact on GSO systems.

**7.1.2 ATU – (as of February 2023)**

* Support the modification of Resolution 770, with the need to follow up on the results of discussions on this agenda item to ensure that there is no impact on geostationary satellites.
  + 1. **CEPT – Document APG23-6/INF 46**
* CEPT supports to amend Resolution 770 (WRC-19) by suppressing Annex 2 from Resolution 770 (WRC-19) and move it to a new recommendation ITU-R S.[QV-METH-REF-LINKS] to be incorporated by reference in Resolution 770 (WRC-19).

**7.1.4 CITEL – Document APG23-6/INF-52**

**Draft Inter-American Proposal (DIAP)**

* Some Administrations supports moving the methodology to determine conformity of non-GSO satellite systems with single-entry interference thresholds in RR Article 22 to ensure the protection of the GSO fixed-satellite service (FSS) and broadcasting-satellite service (BSS) in the frequency bands 37.5 39.5 GHz, 39.5-42.5 GHz, 47.2-50.2 GHz and 50.4-51.4 GHz from Resolution 770 and retaining it instead in a new ITU-R Recommendation to be incorporated by reference in the RR, based on Method G3 of the CPM report for Topic G.

**7.1.5 RCC – Document APG23-6/INF-45**

* Support the revision of Resolution 770 (WRC-19) in accordance with the results of ITU-R studies in order to eliminate difficulties applying this resolution. Method G2

**7.2 International Organisations**

**7.2.1 IARU R3**

* None.

**7.2.2 ICAO**

* None.

**7.2.3 IMO**

* None.

**7.2.4 WMO**

* None.

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