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|  | ASIA-PACIFIC TELECOMMUNITY | Document No: |
| **The 2nd Meeting of the APT Conference Preparatory Group for WRC-23 (APG23-2)** | **APG23-2/OUT-35** |
| 19 – 23 April 2021, Virtual/Online Meeting | 23 April 2021 |

Working Party 5

**PRELIMINARY VIEWs on WRC-23 agenda item 2**

**Agenda item 2**

*to examine the revised ITU-R Recommendations incorporated by reference in the Radio*

*Regulations communicated by the Radiocommunication Assembly, in accordance with the further resolves of Resolution* ***27 (Rev.WRC-19)****, and to decide whether or not to update the corresponding references in the Radio Regulations, in accordance with the principles contained in the resolves of that Resolution;*

**1. Background**

This is a standing agenda item at every WRC to examine the revised ITU-R Recommendationsincorporated by reference in the Radio Regulations (RR) in order to determine their suitability for incorporation by reference in the RR. As such ITU-R Recommendations (IBR Recommendations) may be revised by ITU-R Study Groups, it is necessary for the next WRC to decide whether or not to update the corresponding references in the RR in accordance with Resolution **27 (Rev.WRC-19)**.

**2. Documents**

***2.1 Input Documents:*** APG23-2/INP-15 (J), 28 (AUS)

***2.2 Information Documents:*** APG23-2/INF-27 (DG chair), 35 (CEPT)

**3. Summary of Discussions**

**3.1 Summary of APT Members’ views**

**3.1.1 Japan (APG23-2/INP-15)**

APT Members are encouraged to participate and to monitor the progress of the ITU-R studies in the relevant Working Parties, which may propose revisions of IBR Recommendations. In order to facilitate the consideration of WRC-23 agenda item 2 by the future APG23 meetings, Japan has provided a list of the ITU-R Recommendations incorporated by reference in the Radio Regulations (IBR Recommendations), which includes information regarding the responsible ITU-R Working Parties and study progress as of February 2021.

**3.1.2 Australia (APG23-2/INP-28)**

Australia supports the examination and review of ITU-R Recommendations incorporated by reference into the Radio Regulations and, where appropriate, the updating of these references.

**4. APT Preliminary View**

APT Members support the examination and review of ITU-R Recommendations incorporated by reference into the Radio Regulations and, where appropriate, the updating of these references in accordance with Resolution **27 (Rev.WRC-19).**

APT Members are encouraged to participate and monitor the progress of the ITU-R studies in the relevant Working Parties, which may propose revisions of IBR Recommendations, with a view to develop the APT positions on this agenda item towards the WRC-23.

**5. Issues for Consideration at Next APG Meeting**

Based on the progress of the ITU-R studies in the relevant Working Parties, APG23-3 will examine and review IBR Recommendations and consider whether it is appropriate to update the references in the Radio Regulations. A list of IBR with progress of future revision is provided for information in Attachment 1.

**6. Views from Other Organisations**

Preliminary CEPT position is provided in Document APG23-2/INF-35.

* CEPT supports the revision of ITU‐R Recommendations: to be defined.
* CEPT resumes examining the compliance with the principles of Annex 1 to Resolution **27 (Rev.WRC‐19)** of the references to ITU‐R Recommendations in the Radio Regulations.
* CEPT supports update of the RR Volume 4 cross‐reference list.

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**Attachment 1**

**Attachment 1**

**The ITU‑R Recommendations incorporated by reference in the Radio Regulations**

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| **REC.** | **Title** | **Progress of future revision** | **WP** |
| **TF.460-6** | Standard-frequency and time-signal emissions |   | WP 7A |
| **M.476-5** | Direct-printing telegraph equipment in the maritime mobile service |   | WP 5B |
| **M.489-2** | Technical characteristics of VHF radiotelephone equipment operating in the maritime mobile service in channels spaced by 25 kHz |   | WP 5B |
| **M.492-6** | Operational procedures for the use of direct-printing telegraph equipment in the maritime mobile service |   | WP 5B |
| **P.525-4** | Calculation of free-space attenuation |   | WP 3J |
| **P.526-15** | Propagation by diffraction |   | WP 3J |
| **M.541-10** | Operational procedures for the use of digital selective-calling equipment in the maritime mobile service |  Ann. 37 to Doc. 5B/225 (CG ToR) | WP 5B |
| **M.585-8  (Annex 1)** | Assignment and use of identities in the maritime mobile service  | Ann.10 to Doc.5B/225 | WP 5B |
| **M.625-4** | Direct-printing telegraph equipment employing automatic identification in the maritime mobile service |   | WP 5B |
| **M.633-4** | Transmission characteristics of a satellite emergency position-indicating radio beacon (satellite EPIRB) system operating through a satellite system in the 406 MHz band |   | WP 4C |
| **S.672-4** | Satellite antenna radiation pattern for use as a design objective in the fixed-satellite service employing geostationary satellites |   | WP 4A |
| **M.690-3** | Technical characteristics of emergency position-indicating radio beacons operating on the carrier frequencies of 121.5 MHz and 243 MHz |   | WP 5B |
| **RA.769-2** | Protection criteria used for radio astronomical measurements |   | WP 7D |
| **P.838-3**  | Specific attenuation model for rain for use in prediction methods | Ann.4 to Doc.3J/272 (2019) | WP 3J |
| **M.1084-5** | Interim solutions for improved efficiency in the use of the band 156-174 MHz by stations in the maritime mobile service |   | WP 5B |
| **SM.1138-3** | Determination of necessary bandwidths including examples for their calculation and associated examples for the designation of emissions |   | WP 1A |
| **SA.1154-0** | Provisions to protect the space research (SR), space operations (SO) and Earth-exploration satellite services (EES) and to facilitate sharing with the mobile service in the 2 025-2 110 MHz and 2 200-2 290 MHz bands | Ann.5 to Doc.7B/66 | WP 7B |
| **M.1171-0** | Radiotelephony procedures in the maritime mobile service |   | WP 5B |
| **M.1172-0** | Miscellaneous abbreviations and signals to be used for radiocommunications in the maritime mobile service |   | WP 5B |
| **M.1173-1** | Technical characteristics of single-sideband transmitters used in the maritime mobile service for radiotelephony in the bands between 1 606.5 kHz (1 605 kHz Region 2) and 4 000 kHz and between 4 000 kHz and 27 500 kHz |   | WP 5B |
| **M.1174-4** | Technical characteristics of equipment used for on-board vessel communications in the bands between 450 and 470 MHz |   | WP 5B |
| **M.1187-1**  | A method for the calculation of the potentially affected region for a mobile-satellite service network in the 1‑3 GHz range using circular orbits |   | WP 4C |
| **S.1256-0** | Methodology for determining the maximum aggregate power flux-density at the geostationary-satellite orbit in the band 6 700-7 075 MHz from feeder links of non-geostationary satellite systems in the mobile-satellite service in the space‑to‑Earth direction |   | WP 4A |
| **RS.1260-2** | Feasibility of sharing between active spaceborne sensors and other services in the range 420-470 MHz |   | WP 7C |
| **BO.1293-2** | Protection masks and associated calculation methods for interference into broadcast-satellite systems involving digital emissions |   | WP 4A |
| **S.1340-0** | Sharing between feeder links for the mobile-satellite service and the aeronautical radionavigation service in the Earth-to-space direction in the band 15.4-15.7 GHz |   | WP 4A |
| **S.1428-1** | Reference FSS earth-station radiation patterns for use in interference assessment involving non-GSO satellites in frequency bands between 10.7 GHz and 30 GHz |   | WP 4A |
| **BO.1443-3** | Reference BSS earth station antenna patterns for use in interference assessment involving non-GSO satellites in frequency bands covered by RR Appendix 30 |   | WP 4A |
| **RA.1513-2** | Levels of data loss to radio astronomy observations and percentage-of-time criteria resulting from degradation by interference for frequency bands allocated to the radio astronomy service on a primary basis |   | WP 7D |
| **M.1583-1** | Interference calculations between non-geostationary mobile-satellite service or radionavigation-satellite service systems and radio astronomy telescope sites  |   | WP 4C |
| **S.1586-1** | Calculation of unwanted emission levels produced by a non‑geostationary fixed-satellite service system at radio astronomy sites |   | WP 4A |
| **F.1613-0** | Operational and deployment requirements for fixed wireless access systems in the fixed service in Region 3 to ensure the protection of systems in the Earth exploration-satellite service (active) and the space research service (active) in the band 5 250-5 350 MHz |   | WP 5A |
| **RA.1631-0** | Reference radio astronomy antenna pattern to be used for compatibility analyses between non-GSO systems and radio astronomy service stations based on the epfd concept |   | WP 7D |
| **M.1642-2** | Methodology for assessing the maximum aggregate equivalent power flux-density at an aeronautical radionavigation service station from all radionavigation-satellite service systems operating in the 1 164-1 215 MHz band |   | WP 4C |
| **M.1643-0** | Technical and operational requirements for aircraft earth stations of aeronautical mobile-satellite service including those using fixed-satellite service network transponders in the band 14-14.5 GHz (Earth-to-space) |   | WP 4C |
| **M.1652-1 (Annex 1 and Annex 5 )** | Dynamic frequency selection in wireless access systems including radio local area networks for the purpose of protecting the radiodetermination service in the 5 GHz band |   | WP 5A |
| **M.1827-1** | Guideline on technical and operational requirements for stations of the aeronautical mobile (R) service limited to surface application at airports in the frequency band 5 091-5 150 MHz |   | WP 5B |
| **M.2013-0** | Technical characteristics of, and protection criteria for non-ICAO aeronautical radionavigation systems, operating around 1 GHz |   | WP 5B |
| **RS.2065-0** | Protection of space research service (SRS) space-to-Earth links in the 8 400-8 450 MHz and 8 450-8 500 MHz bands from unwanted emissions of synthetic aperture radars operating in the Earth exploration-satellite service (active) around 9 600 MHz |   | WP 7C |
| **RS.2066-0** | Protection of the radio astronomy service in the frequency band 10.6-10.7 GHz from unwanted emissions of synthetic aperture radars operating in the Earth exploration-satellite service (active) around 9 600 MHz  | Ann.22 to Doc.7C/105 | WP 7C |