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|  | | CPG15(14)017 Annex IV-20 |
| CPG15-4 | |  |
| Riga, Latvia 25th - 28th March 2014 | |  |
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| Subject: | Draft CEPT Brief on WRC-15 Agenda Item 2 | |
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| Summary: | | |
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| Proposal: | | |
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DRAFT CEPT BRIEF ON AGENDA ITEM 2

2 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 Annex 1 to Resolution 27 (Rev.WRC-12);

Resolution 27 (Rev.WRC‑12), Use of incorporation by reference in the Radio Regulations.

Resolution 28 (Rev.WRC‑03), Revision of references to the text of ITU-R Recommendations incorporated by reference in the Radio Regulations.

# ISSUE

Agenda Item 2 is standing WRC agenda item which aims at examining the revised ITU-R Recommendations incorporated by reference in the Radio Regulations (Issue 1).

Additionally Agenda Item 2 covers also situations where an ITU-R Recommendation is cited using mandatory text in the resolves of a WRC Resolution, which is itself cited using mandatory text in a footnote or a provision of the Radio Regulations (Issue 2).

Any actions necessary to clarify the status of ambiguous references to ITU-R Recommendations generally fall under Agenda Item 2 as well (Issue 3).

# Preliminary CEPT position

* CEPT supports ITU-R studies on the revision of ITU-R Recommendations incorporated by reference.
* CEPT resumes examining the compliance with the principles of Annex 1 to Resolution 27 (Rev-WRC-12) of the references to ITU-R Recommendations in the Radio Regulations.
* CEPT supports update of the RR Volume 4 cross references list taking into account its possible role in new arrangement of RR mentioned in noting b) of Resolution 67 (WRC-12), see also AI 9 Issue 9.1.4.

# Background

During a study period between two conferences, some of the ITU-R Recommendations incorporated by reference in the Radio Regulations and contained in Volume 4 are revised by the relevant ITU-R Study Groups. Resolution 28 (Rev. WRC-03) resolves that WRC reviews the ITU-R Recommendations that have been revised during the preceding study period and determines, based on principles contained in Annex 1 of Resolution 27 (Rev.WRC-12), whether the corresponding reference to the Recommendation in the Radio Regulations should be updated to reflect the revised version of the ITU-R Recommendation, otherwise the earlier version of the Recommendation remains valid.

An initial list of those ITU-R Recommendations that have been revised and approved since WRC-12 will be delivered to CPM15-2 by the Director of the Radiocommunication Bureau. This document will include a list of the relevant provisions of the Radio Regulations containing reference to ITU-R Recommendations incorporated by reference and will be subject for consideration at CPM15-2 and RA-15.

A preliminary analysis of the existing references as will appear in Annex 1 to this Brief including preliminary views from CEPT and other organizations will be gradually developed within CEPT towards preliminary position and ECP.

After the decision of RA-15 the revised ITU-R Recommendations will be examined by CEPT again in order to finalize the CEPT position.

# List of relevant documents

ITU-Documentation (Recommendations, Reports, other)

Further ITU documents: <http://www.itu.int/ITU-R/go/rcpm-wrc-15-studies>.

List of relevant ITU-R Recommendations from the BR (available to CPM15-2)

Radio Regulations Geneva 2012, Volume 4.

# Actions to be taken

Based on the list to be communicated to and by the Radiocommunication Assembly, CEPT will study possible updates of the references to ITU-R Recommendations in the Radio Regulations and their consequential inclusion in Volume 4.

In the meantime Administrations are encouraged to monitor activities of BR and ITU-R Study Groups concerning development of Recommendations database search facility (see e.g. document 5A/354 of ITU-R WP5A/SG5). Information available within process of implementation of this search facility may significantly help in preparation of proposals under WRC-15 AI 2.

# Relevant information from outside CEPT (examples of these are below)

## European Union (date of proposal)

## Regional telecommunication organisations:

APT (28 November 2013)

APT Preliminary View

APT Members are urged to use the basic concepts and processes presented in Resolution 27 (Rev.WRC-12) and Resolution 28 (rev.WRC-03) to develop their proposals for consideration by future APG meetings.

ATU (date of proposal)

Arab Group (1 December 2013)

Supports the studies on revision of ITU-R Recommendations incorporated by reference in RR.

CITEL (26 November 2013)

Preliminary views:

Canada

Will monitor the development of new and revised ITU-R Recommendations and determine whether these should be incorporated by reference in the Radio Regulations, as per Resolution 28.

Will also review references to ITU-R Recommendations with a view to clarifying the status of their reference or remove any ambiguity in their linking language, in accordance with Resolution 27.

Preliminary Proposals

MOD to several provisions and footnotes to update references to Recommendations incorporated by reference that have been revised since WRC-12 and to clarify the status of references.

RCC (date of proposal)

## International organisations

ITU (22 November 2013)

In November 2013 ITU-R BR identified Recommendations which were updated in 2012 and should be included into its Report for CPM15-2 under AI 2.

Those Recommendations are included in Annex 1 of this draft ECP Brief

IATA (date of proposal)

ICAO (date of proposal)

IMO (18 November 2013)

Preliminary IMO position

1. IMO has studied the ITU-R Recommendations of relevance and commented on each one as follows:

* Needed/required: M.489-2, M.541-9, M.585-6, M.690-2, M.1171, M.1173, M.1174-2,
* Currently needed: M.492-2, M.625-3,
* Required for specific purposes: M.1638,
* Used by IMO: M.633-4, M.1084-4,
* No longer needed: M.476-5
* Required by maritime community: M.1172.

1. Incorporation by reference is of importance to IMO because of the close relationship between many of the ITU-R Recommendations related to GMDSS equipment and its operation, to IMO performance standards.
2. IMO requests early indication of any changes proposed by ITU to the mechanism of incorporation by reference and to the list of incorporated Recommendations.

NATO (date of proposal)

SFCG (date of proposal)

WMO and EUMETNET (date of proposal)

## OTHER INTERNATIONAL AND REGIONAL ORGANISATIONS

ESA (date of proposal)

Eurocontrol (date of proposal)

CRAF (16 January 2013)

CRAF urges that Recommendation ITU-R RA.769-2 is included in the list of referenced Recommendations.

Note: Based on results of PTA3 meeting this requirement cannot be solved under AI 2.

## OTHER INTERNATIONAL AND REGIONAL ORGANISATIONS

EBU (date of proposal)

GSMA (date of proposal)

1. ****Preliminary analysis of existing references including preliminary views****

**Issue 1: Decision to update or not references in the RR to reflect revised versions of ITU-R Recommendations contained in Volume 4 of RR (i.e. incorporated by reference) since WRC-12**

Agenda Item 2 is a standing WRC agenda item whose main purpose is to examine those ITU-R Recommendations incorporated by reference in the Radio Regulations, which have been revised, and then communicated by the RA in accordance with Res.28 (Rev.WRC-03) to the subsequent WRC, for a decision on whether or not to update the corresponding references in the Radio Regulations in accordance with principles contained in Annex 1 to Res.27 (Rev. WRC-12).

Res.27 (Rev.WRC-12) sets out the principles for use of incorporation by reference in the Radio Regulations and the guidance for collation and publication of cross references list.

Res.28 (Rev.WRC-03) sets out the process to revise references to the text of ITU-R Recommendations incorporated by reference in the Radio Regulations.

The following table contains the views of CEPT with regard to relevant revised ITU-R Recommendation incorporated by reference. Next table presents cross references published in Volume 4 of the RR, Geneva, 2012.

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| --- | --- | --- | --- |
| ****ITU-R Recommendations incorporated in Vol. 4 RRs**** | ****Revised version**** | ****Cross-Reference between ITU-R Rec. and footnotes and/or RR provisions**** | ****CEPT Preliminary views**** |
| M.690-1 | M.690-2 | Appendix 15 (Table 15-2) |  |
| P.526-11 | P.526-12 (Feb. 12) | No. 5.444B (via Resolution 748 (Rev.WRC-12)) |  |
| M.625-3 | M.625-3 (Mar. 12) | Nos. 19.83, 51.41 |  |
| R M.690-1 | M.690-2 (Mar. 12) | Appendix 15 (Table 15-2) |  |
| M.1084-4 | M.1084-5 | Appendix 18 (NOTE B) (prior to the table) |  |
| R M.1173 | M.1173-1 (Mar. 12) | Nos. 52.181, 52.229, Appendix 17 (Annex 1, Part B, Section I § 2 and § 6) |  |

**Cross-reference list of the regulatory provisions, including footnotes and Resolutions, incorporating ITU-R Recommendations by reference (extract from RR, Geneva, 2012, Vol. 4)**

| ****Recommendation ITU-R**** | ****Title of the Recommendation**** | ****RR provisions and footnotes with ITU-R Recommendations contained in RR Volume 4**** |
| --- | --- | --- |
| TF.460-6 | Standard-frequency and time-signal emissions | No. 1.14 |
| M.476-5 | Direct-printing telegraph equipment in the maritime mobile service | Nos. 19.83, 19.96A, 51.41 |
| M.489-2 | Technical characteristics of VHF radiotelephone equipment operating in the maritime mobile service in channels spaced by 25 kHz | Nos. 51.77, 52.231, Appendix 18 (General notes e)) |
| M.492-6 | Operational procedures for the use of direct-printing telegraph equipment in the maritime mobile service | No. 56.2 |
| P.525-2 | Calculation of free-space attenuation | No. 5.444B (via Resolution 748 (Rev.WRC-12)) |
| P.526-11 | Propagation by diffraction | No. 5.444B (via Resolution 748 (Rev.WRC-12)) |
| M.541-9 | Operational procedures for the use of digital selective-calling equipment in the maritime mobile service | Nos. 51.35, 52.112, 52.149, 52.153, 54.2 |
| M.585-6 (Annex 1) | Assignment and use of identities in the maritime mobile service | Nos. 19.99, 19.102, 19.111 |
| M.625-3 | Direct-printing telegraph equipment employing automatic identification in the maritime mobile service | Nos. 19.83, 51.41 |
| 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 | No. 34.1 |
| S.672-4 | Satellite antenna radiation pattern for use as a design objective in the fixed-satellite service employing geostationary satellites | TABLE 22-2 (and No. 22.5D.3), TABLE 22-3 (and No. 22.5F.3) |
| M.690-2 | Technical characteristics of emergency position-indicating radio beacons (EPIRBs) operating on the carrier frequencies of 121.5 MHz and 243 MHz | Appendix 15 (Table 15-2)  Update March 2012 |
| P.838-3 | Specific attenuation model for rain for use in prediction methods | Appendix 30A (Annex 3 § 2.2 Step 6) |
| M.1084-4 | Interim solutions for improved efficiency in the use of the band 156-174 MHz by stations in the maritime mobile service | Appendix 18 (NOTE B) (prior to the table) |
| SM.1138-2 | Determination of necessary bandwidths including examples for their calculation and associated examples for the designation of emissions | Appendix 1 (§ 1 and § 2) |
| SA.1154 | 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 | No. 5.391 |
| M.1171 | Radiotelephony procedures in the maritime mobile service | Nos. 52.192, 52.195, 52.213, 52.224, 52.234, 52.240, 57.1 |
| M.1172 | Miscellaneous abbreviations and signals to be used for radiocommunications in the maritime mobile service | No. 19.48 |
| M.1173 | 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 | Nos. 52.181, 52.229, Appendix 17 (Annex 1, Part B, Section I § 2 and § 6) |
| M.1174-2 | Technical characteristics of equipment used for on-board vessel communi­cations in the bands between 450 and 470 MHz | Nos. 5.287, 5.288 |
| M.1187-1 | A method for the calculation of the potentially affected region for a mobile-satellite service (MSS) network in the 1-3 GHz range using circular orbits | Appendix 4 (Annex 2 item C.11.b) |
| S.1256 | 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 | No. 22.5A |
| RS.1260-1 | Feasibility of sharing between active spaceborne sensors and other services in the range 420-470 MHz | No. 5.279A |
| BO.1293-2 | Protection masks and associated calculation methods for interference into broadcast-satellite systems involving digital emissions | Appendix 30A (Annex 3 § 3.3), Appendix 30 (Annex 5 § 3.4) |
| S.1340 | 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 | No. 5.511C |
| S.1341 | Sharing between feeder links for the mobile-satellite service and the aeronautical radionavigation service in the space-to-Earth direction in the band 15.4-15.7 GHz and the protection of the radio astronomy service in the band 15.35-15.4 GHz | No. 5.511A |
| 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 | TABLE 22-1A,  TABLE 22-1B,  TABLE 22-1C (and No. 22.5C.6) |
| BO.1443-2 | Reference BSS earth station antenna patterns for use in interference assessment involving non-GSO satellites in frequency bands covered by RR Appendix 30 | TABLE 22-1D (and No. 22.5C.11) |
| M.1583-1 | Interference calculations between non-geostationary mobile-satellite service or radionavigation-satellite service systems and radio astronomy telescope sites | No. 5.443B (via Resolution 741 (Rev.WRC-12)), App4 Annex 2 (item A.17.b.3) (via Resolution 741 (Rev.WRC-12)) |
| S.1586-1 | Calculation of unwanted emission levels produced by a non‑geostationary fixed-satellite service system at radio astronomy sites | No. 5.551H |
| F.1613 | 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 | No. 5.447E |
| RA.1631 | 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 | No. 5.208B (via Resolution 739 (Rev. WRC‑07), No. 5.443B (via Resolution 741 (Rev.WRC-12)), No. 5.551H, App4 Annex 2 (item A.17.b.3) (via Resolution 741 (Rev.WRC-12)) |
| RS.1632 | Sharing in the band 5 250-5 350 MHz between the Earth exploration-satellite service (active) and wireless access systems (including radio local area networks) in the mobile service | No. 5.447F |
| M.1638 | Characteristics of and protection criteria for sharing studies for radiolocation, aeronautical radionavigation and meteorological radars operating in the frequency bands between 5 250 and 5 850 MHz | Nos. 5.447F, 5.450A |
| 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 | Nos. 5.328A (via Resolution 609 (Rev. WRC‑07)) |
| M.1643 | 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) | No. 5.504B (refers to Annex 1, Part C of Rec. ITU-R M.1643), Nos. 5.504C, 5.508A and 5.509A (refer to Annex 1, Part B of Rec. ITU-R M.1643) |
| M.1652-1 (Annex 1) | 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 | No. 5.446A (via Resolution 229 (Rev.WRC-12)) |
| M.1827 | Technical and operational requirements for stations of the aeronautical mobile (R) service (AM(R)S) limited to surface application at airports and for stations of the aeronautical mobile service (AMS) limited to aeronautical security (AS) applications in the band 5 091-5 150 MHz | No. 5.444B (via Resolution 748 (Rev.WRC-12)) |
| M.2013 | Technical characteristics of, and protection criteria for non-ICAO aeronautical radionavigation systems, operating around 1 GHz | No. 5.327A (via Resolution 417 (Rev.WRC-12)) |

****Issue 2: Incorporation by reference of ITU-R Recommendations mentioned in WRC Resolutions****

# ****Preliminary CEPT Position on the issue****

CEPT will examine ITU-R Recommendations incorporated in WRC Resolutions.

# ****Background****

Procedure to be followed by WRC-15 to incorporate by reference ITU-R Recommendations through WRC Resolutions is contained in Annex 3 of Resolution 27 (Rev.WRC-12).

# ****Action to be taken****

None before CPM15-2.