INTERNATIONAL TELECOMMUNICATION UNION

Radiocommunication Bureau
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Administrative Circular
CACE/587

19 October 2012

To Administrations of Member States of the ITU, Radiocommunication Sector Members, ITU-R Associates participating in the work of Radiocommunication Study Group 4 and ITU-R Academia

Subject: **Radiocommunication Study Group 4 (Satellite services)**

– **Proposed adoption of 2 draft new ITU-R Recommendations and 3 draft revised ITU-R Recommendations and their simultaneous approval by correspondence in accordance with § 10.3 of Resolution ITU-R 1-6 (Procedure for the simultaneous adoption and approval by correspondence)**

At the meeting of Radiocommunication Study Group 4, held on 28 September 2012, the Study Group decided to apply the procedure for simultaneous adoption and approval by correspondence (PSAA) (see § 10.3 of Resolution ITU-R 1-6) to 2 draft new ITU-R Recommendations and 3 draft revised ITU-R Recommendations. The titles and summaries of the draft Recommendations are given in the Annex.

The consideration period shall extend for 2 months ending on 19 December 2012. If within this period no objections are received from Member States, the draft Recommendations shall be considered to be adopted by Study Group 4. Furthermore, since the PSAA procedure has been followed, the draft Recommendations shall also be considered as approved.

Any Member State who objects to the adoption of a draft Recommendation is requested to inform the Director and the Chairman of the Study Group of the reasons for the objection.

After the above-mentioned deadline, the results of the PSAA procedure will be announced in an Administrative Circular and the approved Recommendations will be published as soon as practicable (see http://www.itu.int/pub/R-REC).

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Any ITU member organization aware of a patent held by itself or others which may fully or partly cover elements of the draft Recommendation(s) mentioned in this letter is requested to disclose such information to the Secretariat as soon as possible. The Common Patent Policy for ITU-T/ITU-R/ISO/IEC is available at http://www.itu.int/ITU-T/dbase/patent/patent-policy.html.

François Rancy
Director, Radiocommunication Bureau

Annex: Titles and summaries of the draft Recommendations

Documents: Documents 4/11(Rev.1), 4/12(Rev.1), 4/17(Rev.1), 4/18(Rev.1), 4/20(Rev.1)
These documents are available in electronic format at:
http://www.itu.int/md/R12-SG04-C

Distribution:

- Administrations of Member States of the ITU and Radiocommunication Sector Members participating in the work of Radiocommunication Study Group 4
- ITU-R Associates participating in the work of Radiocommunication Study Group 4
- ITU-R Academia
- Chairmen and Vice-Chairmen of Radiocommunication Study Groups and the Special Committee on Regulatory/Procedural Matters
- Chairman and Vice-Chairmen of the Conference Preparatory Meeting
- Members of the Radio Regulations Board
- Secretary-General of the ITU, Director of the Telecommunication Standardization Bureau, Director of the Telecommunication Development Bureau

Annex

Titles and summaries of the draft Recommendations

Draft new Recommendation ITU-R M.[PULSE_EVAL] Doc. 4/11(Rev.1)

Evaluation method for pulsed interference from relevant radio sources other than in the radionavigation-satellite service to the radionavigation-satellite service systems and networks operating in the 1 164-1 215 MHz, 1 215-1 300 MHz and 1 559-1 610 MHz frequency bands

This Recommendation provides a method for use in the initial evaluation of the potential for certain radio sources other than in the radionavigation-satellite service (RNSS) to cause pulsed interference to a radionavigation-satellite system or network operating in the 1 164-1 215 MHz, 1 215-1 300 MHz, and 1 559-1 610 MHz frequency bands. The evaluation method components are a set of equations and a table of recommended parameters and allowable degradation ratios for each frequency band and RNSS receiver type. Given the recommended method parameters, the equations quantify the amount of additional degradation beyond a baseline radio frequency interference (RFI) condition caused by the introduction of a new pulsed RFI source or group of sources. Application examples of the evaluation model are given in an additional annex to the Recommendation.

Although the evaluation method equations are applicable to RNSS receivers operating in the 1 559-1 610 MHz band, further studies would be needed to determine the necessary table of recommended method parameters for that frequency band before the evaluation method is completely defined for the 1 559-1 610 MHz band.

Draft new Recommendation ITU-R S.[TIME_VAR_SMALL_E/S] Doc. 4/20(Rev.1)

Statistical methodology to assess time-varying interference produced by a geostationary fixed-satellite service network of earth stations operating with MF-TDMA schemes to geostationary fixed-satellite service networks

This Recommendation provides a statistical methodology to assess time-varying interference resulting from a geostationary network of earth stations, operating with multi-frequency time division multiple access schemes, over a geostationary orbit fixed-satellite service network. The methodology considers the potential interference to another GSO FSS network. Furthermore, the methodology can be used to adjust the power levels of the interfering terminals such that the performance objectives of the interfered-with satellite network are not impacted.

Draft revision of Recommendation ITU-R M.1850 Doc. 4/12(Rev.1)

Detailed specifications of the radio interfaces for the satellite component of International Mobile Telecommunications-2000 (IMT-2000)

Based on the results of harmonization activities between the satellite radio interface (SRI)-A, C and G families in ETSI, the SRI-C and the SRI-G families were merged and revised to the enhanced SRI-G family specifications. The enhanced SRI-G family is a harmonized result of the previous SRI-C and G families. It is also noted that a few satellite-specific features of the SRI-A family were also incorporated in this revision.

Draft revision of Recommendation ITU-R BO.1898 Doc. 4/17(Rev.1)

Power flux-density value required for the protection of receiving earth stations in the broadcasting-satellite service in Regions 1 and 3 from emissions by a station in the fixed and/or mobile services in the band 21.4-22 GHz

Recommendation ITU-R BO.1898 recommended that the power flux-density value may be used either as a hard limit or as a coordination threshold value to ensure protection of the broadcasting-satellite networks in Regions 1 and 3 from a terrestrial station, as appropriate. However, WRC-12 subsequently approved the power flux-density value as a hard limit. This revision is intended to update the texts in relation to these results of WRC-12 as well as some editorial changes.

Draft revision of Recommendation ITU-R S.732 Doc. 4/18(Rev.1)

Method for statistical processing of earth station antenna side-lobe peaks

This revision is intended to associate the use of this Recommendation with ITU-R Recommendations on antenna radiation patterns which contain provisions allowing a certain percentage of side-lobe peaks to exceed the recommended envelopes. The revision contains a reduction in the number of angular regions within which side-lobe peak samples are taken and introduces a minimum angular resolution for antenna side-lobe measurements. Establishment of limits for side-lobe peak gain values in excess of the recommended envelopes are proposed which, if not exceeded, would still ensure compatibility of the antenna pattern with the recommended envelopes.