

INTERNATIONAL TELECOMMUNICATION UNION



Radiocommunication Bureau

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Administrative Circular
CAR/177

24 November 2004

To Administrations of Member States of the ITU

Subject: Proposed approval of 4 draft revised Recommendations and 3 draft new Recommendations adopted by Radiocommunication Study Group 4

At the meeting of ITU-R Study Group 4 (Fixed-satellite service) held on 22 October 2004, the Study Group adopted the texts of 4 draft revised Recommendations and 3 draft new Recommendations, and agreed to apply the procedure of Resolution ITU-R 1-4 (see § 10.4.5) for approval of Recommendations by consultation. The titles and summaries of these Recommendations are given in Annex 1.

Having regard to the provisions of § 10.4.5.2 of Resolution ITU-R 1-4, I should be grateful if you would inform the Secretariat (brsgd@itu.int) by 24 February 2005, whether your Administration approves or does not approve these draft Recommendations.

A Member State who indicates that a draft Recommendation should not be approved is requested to advise the reason and indicate possible changes in order to facilitate further consideration by the Study Group during the study period (§ 10.4.5.5 of Resolution ITU-R 1-4).

After the above-mentioned deadline, I will notify the results of this consultation by administrative circular and make arrangements for the approved Recommendations to be published in accordance with § 10.4.7 of Resolution ITU-R 1-4.

Valery Timofeev
Director, Radiocommunication Bureau

Annex:
Titles and summaries of draft Recommendations

Documents attached:
Documents 4/BL/8 – 4/BL/14 on CD-ROM

Distribution:

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

Annex 1

Titles and summaries of the draft Recommendations adopted by Radiocommunication Study Group 4

(Geneva, 22 October 2004)

Draft new Recommendation ITU-R S.[TT&C] [Doc. 4/14]

4/BL/8

Performance and availability objectives for FSS telemetry, tracking and command systems

This new Recommendation resulted from multi-year studies within ITU-R Working Party 4B and provides guidance to the designers of fixed-satellite service systems on the technical and operational aspects of telemetry, tracking and command systems.

Draft revision of Recommendation ITU-R S.614-3 [Doc. 4/15]

4/BL/9

Allowable error performance for a satellite hypothetical reference digital path in the fixed-satellite service operating below 15 GHz when forming part of an international connection in an integrated services digital network

This revision reflects changes made by the ITU-T to Recommendation ITU-T G.821 and indicates that satellite HRDPs designed in the future should be based upon the latest version of Recommendation ITU-R S.1062.

Draft revision of Recommendation ITU-R S.1062-2 [Doc. 4/16]

4/BL/10

Allowable error performance for a satellite hypothetical reference digital path operating below 15 GHz

This revision incorporates the significant changes necessary due to the revision by the ITU-T of Recommendation ITU-T G.826 and notes that Recommendation ITU-R S.1429 specifies error performance allowances due to interference and Recommendation ITU-R S.1323 provides a method for calculating operating margins to account for fading and interference.

Draft revision of Recommendation ITU-R S.1149-1 [Doc. 4/17]

4/BL/11

Network architecture and equipment functional aspects of digital satellite systems in the fixed-satellite service forming part of synchronous digital hierarchy transport networks

This revision updates this Recommendation to reflect changes made by the ITU-T in their Recommendations that cover the synchronous digital hierarchy.

Draft revision of Recommendation ITU-R S.1522 [Doc. 4/18]

4/BL/12

Impact of loss of synchronization and recovery time on availability in hypothetical reference digital paths

This revision updates the terminology used in this Recommendation.

Draft new Recommendation ITU-R S.[Doc. 4/22]

4/BL/13

Electronic data file format for earth station antenna patterns.

Although the standard reference patterns for FSS earth station antenna main-beam and sidelobe gain, such as those in Recommendations ITU-R S.465 and ITU-R S.580, are adequate for many interference studies, cases sometimes arise where more detailed gain patterns for specific antennas, or antenna types are needed in ITU-R studies. Also, the gain data for particular antennas are used in the refinement of existing reference patterns and/or the development of new reference patterns. The Annex to this draft new Recommendation details a format in which gain data on specific FSS earth station antennas may be submitted by administrations in electronic form to ITU-R groups, and includes examples.

Draft new Recommendation ITU-R S.[Doc. 4/23]

4/BL/14

Power flux-density values in the band 11.7-12.7 GHz and associated calculation methodology which may be used when the power flux-density values in § 6 of Annex 1 to Appendix 30 are exceeded

Section 6 of Annex 1 to RR Appendix 30 provides power flux-density values to determine if a proposed BSS network in one Region needs to coordinate with an FSS network in another Region, in the frequency band 11.7-12.7 GHz. The mask in that section provides the envelope of pfd values to trigger coordination with a wide range of FSS earth station antenna sizes. This draft new Recommendation gives a table of levels equivalent to those in § 6 of Annex 1 to RR Appendix 30 for particular combinations of FSS earth station antenna size and system noise temperature, and also describes the methodology by which these levels were computed and a methodology to determine such levels for other earth station antenna sizes by interpolation.
