



Radiocommunication Bureau
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Administrative Circular
CAR/221

18 October 2006

To Administrations of Member States of the ITU

Subject: Radiocommunication Study Group 4
– **Proposed approval of 1 draft revised Recommendation**

At the meeting of ITU-R Study Group 4 (Fixed-satellite service) held on 14 and 15 September 2006, the Study Group adopted the text of 1 draft revised Recommendation and agreed to apply the procedure of Resolution ITU-R 1-4 (see § 10.4.5) for approval of Recommendations by consultation. In accordance with the interim procedures recommended by the RAG at its meeting in November 2004*, the draft Recommendation in English, as revised at the meeting of Study Group 4, is enclosed with this letter. The title and summary of the Recommendation are given in Annex 1.

Having regard to the provisions of § 10.4.5.2 of Resolution ITU-R 1-4, you are requested to inform the Secretariat (brsgd@itu.int) by 18 January 2007, whether your Administration approves or does not approve the draft Recommendation.

A Member State who indicates that a draft Recommendation should not be approved is requested to advise the Secretariat of the reason and to 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, the results of this consultation will be notified in an Administrative Circular and arrangements made for the approved Recommendation to be published in accordance with § 10.4.7 of Resolution ITU-R 1-4.

* See Administrative Circular CA/145.

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 “Statement on Radiocommunication Sector Patent Policy” is contained in Annex 1 of Resolution ITU-R 1-4.

Valery Timofeev
Director, Radiocommunication Bureau

Annex:

Title and summary of the draft Recommendation

Document attached:

Document 4/BL/15 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

Title and summary of the draft Recommendation adopted by Radiocommunication Study Group 4

(Geneva, 14-15 September 2006)

Draft revision of Recommendation ITU-R S.1713

Doc. 4/BL/15

Methodology to calculate the minimum separation angle at the Earth's surface between a non-geostationary HEO-type FSS satellite in a ~~high Earth orbit~~ its “active” arc and a geostationary satellite

Recommendation ITU-R S.1713 currently provides a method to calculate the minimum separation angle subtended anywhere on the Earth's surface visible to a HEO satellite in its “active” arc, between that HEO satellite and all visible locations in the GSO. In the present document the Recommendation has been revised in order to add a method to analyse the interference between a HEO system and a *specific* GSO network (i.e. longitude of GSO satellite is known). Such analysis requires determination of the worst-case interference geometry which generally occurs when the separation angle at the Earth's surface between a HEO satellite in its “active” arc and the specific GSO satellite is minimum. This revision includes a description of the new methodology and a corresponding Excel embedded file to calculate the minimum separation angle at the Earth's surface between an “active” HEO satellite and a *specific* GSO satellite.

This draft revision of Recommendation ITU-R S.1713 also corrects some notation errors in the existing embedded Excel tool of Annex 3.
