

Received: 7 April 2010

Source: Annex 2 to Document 6A/285

Reference : Document 6A/310

Document 6A/316-E
8 April 2010
English only

North American Broadcasters Association (NABA)

PROPOSED DRAFT NEW RECOMMENDATION ITU-R BT/S.[PROTECT]

Protection requirements for broadcasting systems

The North American Broadcasters Association (NABA, www.nabanet.com) is an association of broadcasters in Canada, Mexico, and the United States, and the NABA Technical Committee is its standing technical body. NABA is thus in a position to present the technical viewpoints of the most authoritative association of professional North American Broadcasters in television and sound programme production, post-production, and distribution for terrestrial, satellite, and cable broadcasting.

NABA is a Sector Member of ITU-R and a long-time participant in ITU-R Study Groups, Working Parties, Task Groups, Rapporteur groups, etc. NABA numbers among its members Chairmen, Vice-Chairmen and members of the above groups. NABA also participates widely in the ITU work on radio, television and multimedia services and has a strong interest in spectrum management studies including spectrum engineering techniques, spectrum management fundamentals, spectrum monitoring, and inter-service sharing, interference and compatibility.

NABA notes and fully supports Document 6A/310, proposed draft new Recommendation on “Protection requirements for broadcasting systems operating in the LF, MF, HF and VHF bands against radiation from PLT systems”, which includes a compromise value for the protection criteria specifically applicable to the case of PLT systems.

In case of agreement on the above-mentioned document, NABA proposes a consequential modification to the preliminary draft new Recommendation ITU-R BT.[PROTECT] developed at the last meeting of Working Party 6A (Annex 2 to Document 6A/285) and attached as a proposed new Recommendation in the Annex to this document.

This Recommendation incorporates existing Recommendations ITU-R BS.1786 and ITU-R BT.1786, which will be deleted as and when this new Recommendation comes into force.

Annex: Proposed draft new Recommendation ITU-R BT.[PROTECT].

Annex

Deleted: PRELIMINARY

PROPOSED DRAFT NEW RECOMMENDATION ITU-R BT.[PROTECT]

Protection requirements for broadcasting systems

Scope

This Recommendation defines the protection criteria for terrestrial broadcasting systems except for the case of interference from power line telecommunication (PLT) systems, which is the subject of a separate Recommendation.

Summary

This Recommendation provides the protection criteria for broadcasting services from all sources of radio-borne interference except for the case of interference from power line telecommunication (PLT) systems, which is the subject of a separate Recommendation.

The ITU Radiocommunication Assembly,

considering

- a) that Article 5 of the Radio Regulations (RR) allocates certain frequency bands to the terrestrial broadcasting service on a primary basis and includes well-established criteria regarding the amount of interference allowed between the broadcasting service and other services in those bands;
- b) that the terrestrial broadcasting service is often planned on a noise-limited basis;
- c) that there are established protection criteria in Recommendation ITU-R SM.1757 and Report ITU-R SM.2057 for terrestrial broadcasting services assessing and restricting interference caused by ultra-wideband emissions;
- d) that protection criteria have been studied for intra-service (see for instance Recommendation ITU-R BT.1368) and some inter-service (see for instance Report ITU-R BT.2075) interference between broadcasting and other primary services, and they have been submitted to relevant ITU conferences to help them in making their decisions;
- e) that limits must be established for emissions from all sources so that the established interference protection criteria for terrestrial broadcasting services are met;
- f) that in the case of interference from power line telecommunication (PLT) systems, protection requirements are established in [Draft New Recommendation [PLT REC]],

recognizing

- a) that broadcasting is the most economical and widespread radiocommunication service accessible by the majority of the world's population;
- b) that the broadcasting service is considered by ITU as one of the means of ensuring communications in cases of disaster prevention, mitigation and relief as provided in Resolutions 644 (WRC-07), 646 (WRC-03), 647 (WRC-07), 53 (RA-07) and 55 (RA-07),

noting

a) that Article No. **15.12** of the Radio Regulations states that: “Administrations shall take all practicable and necessary steps to ensure that the operation of electrical apparatus or installations of any kind, including power and telecommunication distribution networks, but excluding equipment used for industrial, scientific and medical applications, does not cause harmful interference to a radiocommunication service and, in particular, to a radionavigation or any other safety service operating in accordance with the provisions of these Regulations”,

recommends

- 1 that apart from the BS-to-BS intra-service protection requirement as prescribed, *inter alia*, in Recommendation ITU-R BT.1368 mentioned in *considering* d) above, the total interference contribution arising from shared use of the spectrum should not cause a degradation of the broadcasting service coverage probability of more than 1 per cent;
 - 2 that the total interference from all other sources of interference except for the case of interference from power line telecommunication (PLT) systems, should at no time exceed 1 per cent of the total receiving system noise power.
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