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North American Broadcasters Association (NABA)

FURTHER COMMENTS ON THE PDNR ITU-R BT.[SHARE]

Criterion to assess the impact of spectrum sharing and interference management for the terrestrial broadcasting service (BS)

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.

In this context, NABA takes note of the Preliminary Draft New Recommendation contained in Annex 4 of Document 6A/56 and wishes to provide further comments on the PDNR as shown by the changes made in the Annex of this contribution. NABA also fully supports the proposed PDNR and welcomes its adoption.

ANNEX

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[PRELIMINARY] DRAFT NEW RECOMMENDATION ITU-R BT.[SHARE]

Criterion to assess the impact of spectrum sharing and interference management for the terrestrial broadcasting service (BS)

Summary

Recommendation ITU-R BT.1786 provides a protection criterion for non-broadcasting radiocommunication devices which do not have status or a corresponding frequency allocation in the Radio Regulations. This Recommendation provides a sharing criterion for those services that do have a status in the Radio Regulations.

Scope

This Recommendation provides a guideline for an acceptable limit for total interference to the terrestrial broadcasting services that may result from the emissions of radiocommunication devices that share a frequency allocation with the broadcasting service.

The ITU Radiocommunication Assembly,

considering

- a) that the terrestrial broadcasting services are protected services;
- b) that the terrestrial broadcasting service is often planned on a noise-limited basis;
- c) that broadcasting is the most economical and widespread telecommunication service accessible by the majority of the World's population;
- d) that the broadcasting service is considered by the ITU as one of the preferred media to ensure 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);
- e) that radiocommunication devices may exist with emissions from applications having a corresponding frequency allocation in the RR, that may occur in the frequency bands allocated to the broadcasting services;
- f) that there is an established protection requirement in Recommendation ITU-R BT.1368 for BS-to-BS intraservice interference;
- g) that there is an established protection criterion in Report ITU-R BT.2075 for terrestrial broadcasting services restricting interference caused by emissions from broadcasting-satellite systems and networks;

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h) that there is an established protection criterion in Recommendation ITU-R BT.1786 for non-broadcasting radiocommunication devices not having a corresponding frequency allocation in the RR;

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i) that limits must be established for emissions of devices so that the established interference protection criteria for terrestrial broadcasting services will not be violated,

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recommends

1 that beyond the BS-to-BS intraservice protection requirement as prescribed in the Recommendation mentioned in *considering f)* above, the total interference contribution arising from interservice spectrum sharing should be 10 dB lower to ensure that the degradation in the *C/N* margin is no more than 0.5 dB of the available margin.

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