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Annex 13 to Document 6A/375

World Broadcasting Unions – Technical Committee (WBU-TC)¹

TOWARDS A PDNR ON “POWER LINE HIGH DATA RATE TELECOMMUNICATIONS SYSTEMS”

As the technical arm of the World Broadcasting Unions, the Technical Committee (WBU-TC) is responsible for technical broadcasting issues of importance to the members of the World Broadcasting Unions. The work of the WBU-TC focuses on issues and areas to which all Unions are welcome to contribute to, and which materially affect broadcasting in all regions of the world.

The WBU-TC has been following, with great interest, the discussions in ITU-R Working Party 1A concerning the introduction of Power Line Telecommunications (PLT) technology. In general, the WBU-TC is concerned with the need and methods to protect broadcasting services from interference caused by emissions from devices without a corresponding frequency allocation in the Radio Regulations. Of particular interest are devices using PLT technology that produce fundamental and unintentional emissions in the frequency bands allocated to the broadcasting service.

The WBU-TC has noted with concern that the ITU-T Recommendation G.9960 will have a devastating impact upon all Broadcasting Services in the frequency bands up to 200 MHz and beyond. ITU-T Recommendation G.9960 introduces broadband noise at significantly higher power levels through radiation emitted from electrical wiring. We note further from emission measurements reported in Annex 13 to the Working Party 6A Chairman’s Report

¹ The WBU-TC is the standing technical body of the World Broadcasting Unions, whose Members are:

- Asia-Pacific Broadcasting Union (ABU)
- Arab States Broadcasting Union (ASBU)
- The African Union of Broadcasting (AUB)
- Caribbean Broadcasting Union (CBU)
- European Broadcasting Union (EBU)
- International Association of Broadcasting (IAB)
- North American Broadcasters Association (NABA)
- Organizacion de Telecomunicaciones Iberoamericanas (OTI)

(Document 6A/375) that the Recommendation does not provide limits sufficient to protect the broadcasting bands below 200 MHz. In addition, we note that these PLT emissions also occur well above 200 MHz.

The WBU-TC appreciates the efforts of Working Party 1A to form a Rapporteur's Group which will attempt to resolve this issue with ITU-T Study Group 15 (Annex 1 to Document 1A/252).

The WBU-TC notes that Working Party 1A continued the development of a preliminary draft new Recommendation SM.[PLT] (Annex 3 of Document 1A/252). We also note that in an attempt to compromise, a protection value of 0.5 dB was applied to the broadcasting services below 80 MHz for protection from PLT systems. The originally requested protection value was 0.05 dB. The WBU-TC also notes that Working Party 6A has responded (Document 1A/260) by pointing out several Regional Agreements and Plans which are based on established protection criteria and that the impact of 0.5 dB from PLT on the broadcasting service below 80 MHz is a matter yet to be fully discussed and finalised in Working Party 6A.

The WBU-TC supports the position of Working Party 6A that any solution reached for the broadcasting service below 80 MHz must not set any precedence in the implementation of established plans. In any case, the WBU-TC continues to support the position, with respect to unintentional emissions in the broadcasting bands above 30 MHz, the total aggregate interference to the broadcasting service should at no time and nowhere exceed one per cent of the total receiving system noise power.
