

IWG-7

Draft Proposal for the Work of the Conference

Agenda Item 1.30: *to consider possible changes to the procedures for the advance publication, coordination and notification of satellite networks in response to Resolution 86 (Minneapolis, 1998);*

Background:

Recently the RRB clarified the application of Resolution 539, "Use of the band 2630 – 2655 MHz in certain Region 3 countries by non-geostationary satellite systems in the broadcasting-satellite service (sound)". The band addressed in Resolution 539 has been allocated to various services for some time and the regulatory provisions that apply between the satellite and terrestrial systems in this band have been long established.

WRC-2000 adopted (i) regulations that allow coordination between NGSO BSS(S) systems and GSO systems in the 2630 – 2655 MHz band; (ii) a footnote that identifies that band, among others, for possible use by IMT-2000 systems; and (iii) Resolution 539 which includes certain technical limitations on the NGSO BSS(S) systems that can be deployed and power flux density thresholds for the Bureau to identify administrations whose terrestrial service may be affected by the proposed NGSO BSS(S) network.

There has been some debate on the interpretation of Resolution 539 however the applicable procedures have been clarified in a ROP, which decided that the coordination requests of such systems will be subject to the application of Resolution 539 within the existing procedure of No. 9.11 of the Radio Regulations. In order to clarify this in the Radio Regulation the following modifications to the Radio Regulations are proposed.

The importance of the proposal below lies in enforcing the concept that « seeking agreement » means have coordination, and that this in turn becomes an « implicit » rather than an « explicit » requirement.

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5.418 *Additional allocation:* in Bangladesh, Belarus, Korea (Rep. of), India, Japan, Pakistan, Singapore, Sri Lanka and Thailand, the band 2 535-2 655 MHz is also allocated to the broadcasting-satellite service (sound) and complementary terrestrial broadcasting service on a primary basis. Such use is limited to digital audio broadcasting and is subject to the provisions of Resolution **528 (WARC-92)**. The provisions of No. **5.416** and Table **21-4** of Article **21**, do not apply to this additional allocation. Use of non-geostationary-satellite systems in the broadcasting-satellite service (sound) shall be operated such that the minimum elevation angle over the service area is not less than 40° ~~is subject to Resolution **539 (WRC-2000)**.~~

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5.418A In certain Region 3 countries listed in No. **5.418**, use of the band 2 630-2 655 MHz by non-geostationary-satellite systems in the broadcasting-satellite service (sound) for which complete Appendix **4** coordination information, or notification information, has been received after 2 June 2000, is subject to the application of the provisions of No. **9.12A**, in respect of geostationary-satellite networks for which complete Appendix **4** coordination information, or notification information, is considered to have been received after 2 June 2000, and No. **22.2** does not apply. No. **22.2** shall continue to apply with respect to geostationary-satellite networks for which complete Appendix **4** coordination information, or notification information, is considered to have been received before 3 June 2000. Use of the band by non-geostationary-satellite systems in the broadcasting-satellite service (sound) shall be operated such that the minimum elevation angle over the service area is not less than 40° ~~is subject to the provisions of Resolution **539 (WRC-2000)**, and such systems shall be in accordance with Resolution **528 (WARC-92)**.~~

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5.418B Use of the band 2 630-2 655 MHz by non-geostationary-satellite systems for which complete Appendix **4** coordination information, or notification information, has been received after 2 June 2000, is subject to the application of the provisions of No. **9.12**. Non-geostationary-satellite systems in the broadcasting-satellite service (sound) shall be operated such that the minimum elevation angle over the service area is not less than 40° ~~Resolution **539 (WRC-2000)** applies.~~

Reason: To include technical limitations of the non-GSO BSS(S) from Resolution 539 in the footnotes to the Table of Allocations and relevant portions of Resolution 539 in Appendix 5.

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5.418C Use of the band 2 630-2 655 MHz by geostationary-satellite networks for which complete Appendix 4 coordination information, or notification information, has been received after 2 June 2000 is subject to the application of the provisions of No. **9.13** with respect to non-geostationary-satellite systems in the broadcasting-satellite service (sound), and No. **22.2** does not apply. ~~Resolution 539 (WRC-2000) applies.~~

Reason: Consequential to the suppression of Resolution 539.

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SUP Resolution 539 (WRC-2000)**

**Use of the band 2 630-2 655 MHz in certain Region 3 countries
by non-geostationary satellite systems in the
broadcasting-satellite service (sound)**

Reason: Relevant portions of Resolution 539 have been include in the Radio Regulations.

TABLE 5-1 (continued)

Reference of Article S9	Case	Frequency bands (and Region) of the service for which coordination is sought	Threshold/condition	Calculation method	Remarks
No. S9.11 GSO, non-GSO/ terrestrial	A space station in the broadcasting-satellite service (BSS) in any band shared on an equal primary basis with terrestrial services and where the BSS is not subject to a Plan, in respect of terrestrial services	620-790 MHz 1 452-1 492 MHz 2 310-2 360 MHz 2 520-2 655 MHz 2 655-2 670 MHz 12.5-12.75 GHz (Region 3) 17.3-17.8 GHz (Region 2) 21.4-22 GHz (Region 1 and 3) 74-76 GHz	<p>i) Bandwidths overlap, and, Resolution 539 (WRC-2000) also applies</p> <p>ii) in the band 2630-2655 MHz, the pfd from a non-GSO space station calculated under free-space propagation condition exceeds at any point of the territory of an Administration in Regions 1, 2 or 3 the following:</p> <p>$-128 \text{ dB(W/m}^2\text{/MHz)}$ for $0^\circ \leq \delta \leq 5^\circ$</p> <p>$-128 + 0.75(\delta - 5) \text{ dB(W/m}^2\text{/MHz)}$ for $5^\circ \leq \delta \leq 25^\circ$</p> <p>$-113 \text{ dB(W/m}^2\text{/MHz)}$ for $25^\circ \leq \delta \leq 90^\circ$</p> <p>where δ is the angle of arrival above the horizontal plane.</p>	i) Check by using the assigned frequencies and bandwidths	