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| A close up of a sign  Description automatically generated | **World Radiocommunication Conference (WRC-23) Dubai, 20 November - 15 December 2023** | |  |
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| PLENARY MEETING | | **Addendum 3 to Document 44(Add.22)-E** | |
|  | | **13 October 2023** | |
|  | | **Original: English** | |
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| Member States of the Inter-American Telecommunication Commission (CITEL) | | | |
| PROPOSALS FOR THE WORK OF THE CONFERENCE | | | |
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| Agenda item 7(C) | | | |

7 to consider possible changes, in response to Resolution 86 (Rev. Marrakesh, 2002) of the Plenipotentiary Conference, on advance publication, coordination, notification and recording procedures for frequency assignments pertaining to satellite networks, in accordance with Resolution **86** **(Rev.WRC‑07)**, in order to facilitate the rational, efficient and economical use of radio frequencies and any associated orbits, including the geostationary-satellite orbit;

7(C) Topic C - Protection of geostationary satellite networks in the mobile-satellite service operating in the 7/8 GHz and 20/30 GHz bands from emissions of non-geostationary satellite systems operating in the same frequency bands and identical directions

Background

Topic C under WRC‑23 agenda item 7 was established to verify the effectiveness of the regulatory protection of the geostationary-satellite orbit (GSO) mobile-satellite service (MSS) from interference caused by non-GSO systems, and to identify possible inconsistencies in the provisions of the Radio Regulations (RR) applicable to the frequency bands 7 250‑7 750 MHz (space-to-Earth), 7 900‑8 400 MHz (Earth-to-space), 20.2-21.2 GHz (space-to-Earth) and 30‑31 GHz (Earth-to-space). Frequency assignments to non‑GSO satellites in those bands currently are not subject to coordination with GSO MSS networks under RR No. **9.11A** (RR Nos. **9.12A** or **9.13**). However, RR No. **9.21** applies to non‑GSO MSS satellite systems in the bands covered by RR No. **5.461**.

If an administration is of the view that unacceptable interference may be caused by a non‑GSO system in the frequency bands 20.2‑21.2 GHz and 30‑31 GHz or by non‑GSO FSS in the bands 7 250‑7 750 MHz and 7 900-8 400 MHz to its existing or planned GSO MSS networks its comments shall be communicated to the notifying administration responsible for the non‑GSO system according to RR No. **9.3**. However, considering that resolving difficulties with respect to assignments of non-GSO systems subject to RR No. **9.3** does not have any regulatory implication with respect to the recording of assignments, it appears that the protection of GSO MSS networks is based on a best effort only. It should be noted that this is not the case for assignments to non‑GSO MSS systems in the bands covered by RR No. **5.461**. In fact, the unsuccessful application of RR No. **9.21** (i.e. the absence of an agreement) leads to a recording in the MIFR with favourable finding but the recorded assignment is subject to not causing harmful interference nor claiming protection from the assignments of the objecting administration, i.e. the administration having stated its disagreement (see also RR No. **11.31.1**).

Under RR No. **22.2**, non‑GSO systems shall not cause unacceptable interference to GSO networks in the fixed-satellite service (FSS) and broadcasting-satellite service (BSS). However, GSO MSS networks are not covered under RR No. **22.2**. Because of this apparent deficiency in the regulatory framework, the protection of GSO MSS networks from non-GSO systems in these bands is not ensured.

ITU‑R studies have established that the current regulatory framework does not provide sufficient protection to GSO MSS and should be modified to expand the concept of RR No. **22.2** to the protection of GSO MSS.

In this context, these CITEL administrations propose changes to RR No. **5.461** and also propose to add a new provision to RR Article **22** to expand the concept of RR No. **22.2** to GSO MSS in the subject frequency bands in accordance with Method C2 of the CPM Report for WRC‑23 agenda item 7, Topic C.

Proposals

ARTICLE 5

Frequency allocations

Section IV – Table of Frequency Allocations  
(See No. 2.1)

MOD IAP/44A22A3/1#1998

7 250-8 500 MHz

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| --- | --- | --- |
| Allocation to services | | |
| Region 1 | Region 2 | Region 3 |
| 7 250-7 300 FIXED  FIXED-SATELLITE (space-to-Earth)  MOBILE  MOD 5.461 | | |
| 7 300-7 375 FIXED  FIXED-SATELLITE (space-to-Earth)  MOBILE except aeronautical mobile  MOD 5.461 | | |
| ... | | |
| 7 900-8 025 FIXED  FIXED-SATELLITE (Earth-to-space)  MOBILE  MOD 5.461 | | |

**Reasons:** To reflect the modification to RR No. **5.461**.

MOD IAP/44A22A3/2#1999

5.461 *Additional allocation:*the frequency bands 7 250-7 375 MHz (space-to-Earth) and 7 900-8 025 MHz (Earth-to-space) are also allocated to the mobile-satellite service on a primary basis, subject to agreement obtained under No. **9.21**, with the exception that No. **9.21** shall not apply to the geostationary-satellite networks in the mobile-satellite service for which complete coordination information is received by the Bureau from *[16 December 2023 or the date of entry into force of the Final Acts of WRC‑23]* with respect to non-geostationary-satellite systems for which complete coordination or notification information, as appropriate, is received by the Bureau from *[16 December 2023 or the date of entry into force of the Final Acts of WRC‑23]*.     (WRC‑23)

**Reasons:** Modifications required to prevent a potential inconsistency between the proposed new provision in RR Article **22** and RR No. **11.31.1**.

ARTICLE 22

Space services1

Section II − Control of interference to geostationary-satellite systems

ADD IAP/44A22A3/3#2001

22.2*bis* In the frequency bands 7 250‑7 750 MHz (space-to-Earth), 7 900‑8 025 MHz (Earth-to-space), 20.2‑21.2 GHz (space-to-Earth) and 30‑31 GHz (Earth-to-space), non‑geostationary‑satellite systems forwhich complete coordination or notification information, as appropriate, is received by the Bureau from *[16 December 2023 or the date of entry into force of the Final Acts of WRC‑23]* shall not cause unacceptable interference to and shall not claim protection from geostationary-satellite networks in the mobile-satellite service which are operating in accordance with these Regulations. No. **5.43A** does not apply in this case.     (WRC‑23)

**Reasons:** This additional provision expands the application of the concept of RR No. **22.2** to the protection of GSO MSS in the frequency bands 7 250‑7 750 MHz (space-to-Earth), 7 900‑8 025 MHz (Earth-to-space), 20.2‑21.2 GHz (space-to-Earth) and 30‑31 GHz (Earth-to-space).

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