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| **41 MEETING OF PERMANENT**  **CONSULTATIVE COMMITTEE II:**  **RADIOCOMMUNICATIONS**  **May 22 to 26, 2023**  **Mexico City, Mexico** | | **OEA/Ser.L/XVII.4.2.41**  **CCP.II-RADIO /doc. /23**  **01 May 2023**  **Original: English** | |
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|  | **PROPOSALS FOR THE WORK OF THE CONFERENCE**  **AGENDA ITEM 7 Topic C** | |  |
|  | **(Item on the Agenda: 3.1 (SGT-4))** | |  |
|  | **(Document submitted by the administration of the United States of America)** | |  |

**Impact on the sector:**

This document supports the work of CITEL’s PCC.II Working Group for WRC under 3.1 of the agenda.

**Executive Summary:**

This contribution presents a preliminary proposal in relation to WRC-23 agenda item 7 Topic C. The Unites States proposes changes to RR No. 5.461 and proposes to add a new provision to Article 22 to clarify the protection of future GSO MSS networks relative to non-GSO systems in the subject frequency bands.

**UNITED STATES OF AMERICA**

**PROPOSALS FOR THE WORK OF THE CONFERENCE**

**Agenda Item 7 Topic 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**:

Non-GSO systems operating in 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) currently do not require 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, e.g. by having conducted investigations providing results leading to this view, its comments may be communicated to the notifying administration responsible for the non-GSO system according to RR No. **9.3**. However, sometimes requests for the resolution of difficulties under RR No. **9.3** simply remain unanswered. This could be explained by the absence of clear criteria to be used during technical discussions. Furthermore, 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.

The Unites States proposes changes to RR No. **5.461** and also proposes to add a new provision to Article **22** to clarify the protection of future GSO MSS networks relative to non-GSO systems in the subject frequency bands.

**Proposals**:

**USA-7C/1**

ARTICLE 5

Frequency allocations

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

MOD

7 250-8 500 MHz

|  |  |  |
| --- | --- | --- |
| 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 | | |

MOD

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 after *[the last day of WRC‑23 or the entry into force of the Final Acts of WRC‑23]* with respect to non-geostationary-satellite systems for which complete coordination information is received by the Bureau after *[the last day of WRC‑23 or the entry into force of the Final Acts of WRC‑23]*.     (Rev. WRC‑23)

Reason: This change makes it clear that GSO MSS networks filed after the coming into force of this modified provision no longer need to secure the agreement of previously filed non-GSO systems under No. **9.21.**

**USA-7C/2**

ARTICLE 22

Space services1

**Section II − Control of interference to geostationary-satellite systems**

ADD

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 for which complete coordination or notification information, as appropriate, is received by the Bureau after *[the last day of WRC‑23 or the 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 and which are operating in accordance with these Regulations. No. 5.43A does not apply in this case.     (WRC‑23)

Reason: This additional provision clarifies the protection of GSO MSS networks after the coming into force of this new provision relative to new non-GSO systems**.**