

**UNITED STATES OF AMERICA****DRAFT PROPOSALS FOR THE WORK OF THE CONFERENCE**

**Agenda Item 7:** *to consider possible changes in response to Resolution 86 (Rev. Marrakesh, 2002) of the Plenipotentiary Conference: “Advance publication, coordination, notification and recording procedures for frequency assignments pertaining to satellite networks”, in accordance with Resolution 86 (Rev. WRC-07)*

**Issue 2D: Review of the bands listed in Table 5-1 of RR Appendix 5 for RR Nos. 9.11 and 9.19**

**Background Information:** Table 5-1 of RR Appendix 5 lists the technical conditions for the various coordination cases contained in Section II of Article 9. Among other conditions, the frequency bands where a specific provision applies are listed. In particular, for the row corresponding to No. 9.11, a number of bands are listed where the Bureau is supposed to apply this provision. However some inconsistencies with other parts of the Radio Regulations have been identified. Moreover, the row corresponding to No. 9.19 only refers to the row of No. 9.11 concerning the involved frequency bands.

Because inaccuracies in Table 5-1 of RR Appendix 5 lead to confusion in applying the provisions of Section II of RR Article 9 and may cause difficulties for both administrations and the Bureau, the ITU-R reviewed the list of frequency bands indicated in the Appendix 5 Table 5-1 row corresponding to RR No. 9.11 and identified possible updates to it. In addition, the ITU-R reviewed the Appendix 5 Table 5-1 entries for the row dealing with No. 9.19 and also identified possible updates to it, such as explicitly list the bands where RR No. 9.19 applies instead of referring to the row dealing with RR No. 9.11.

In order to review the situation, it is important to consider the coordination situations that each of these provisions addresses. No. 9.11 deals with coordination of transmissions from a BSS space station with respect to terrestrial services, while No. 9.19 deals with coordination of transmissions from a terrestrial station or an earth station with respect to receiving BSS earth stations. While the provisions may seem to be the reverse case of each other, No. 9.19 also includes coordination of transmitting earth stations. Therefore, in reviewing Table 5-1, it is necessary to ensure that BSS frequency bands shared with Earth-to-space satellite allocations are also included in the entry for No. 9.19.

In addition, it is noted that a BSS allocation – 40.5-42.5 GHz – appears to be missing from the Table 5-1 entries for both Nos. 9.11 and 9.19.

The CPM Report to WRC-12 identifies one Method to address this issue. The United States proposal is based on this Method.

Proposal:

MOD USA/7/2D/1

APPENDIX 5 (Rev.WRC-07)

**Identification of administrations with which coordination is to be effected or agreement sought under the provisions of Article 9**

TABLE 5-1 (WRC-07)  
**Technical conditions for coordination** (see Article 9)

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TABLE 5-1 (continued) (WRC-07)

Reference of Article 9	Case	Frequency bands (and Region) of the service for which coordination is sought	Threshold/condition	Calculation method	Remarks
No. 9.11 GSO, non-GSO/terrestrial	A space station in the 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 (see Resolution 549 (WRC-07)) 1 452-1 492 MHz 2 310-2 360 MHz (No. 5.393) 2 535-2 655 MHz (Nos. 5.417A and 5.418) 17 7-17.8 GHz (Region 2) 74-76 GHz	Bandwidths overlap: The detailed conditions for the application of No. 9.11 in the bands 2 630-2 655 MHz and 2 605-2 630 MHz are provided in Resolution 539 (Rev.WRC-03) for non-GSO BSS (sound) systems pursuant to Nos. 5.417A and 5.418, and in Nos. 5.417A and 5.418 for GSO BSS (sound) networks pursuant to those provisions.	Check by using the assigned frequencies and bandwidths	

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Deleted: 12.5-12.75 GHz (Region 3)

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Deleted: 21.4-22 GHz (Regions 1 and 3)

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TABLE 5-1 (end) (WRC-07)

Reference of Article 9	Case	Frequency bands (and Region) of the service for which coordination is sought	Threshold/condition	Calculation method	Remarks
No. 9.19 Terrestrial, GSO, non-GSO/ GSO, non-GSO	Any transmitting station of a terrestrial service or a transmitting earth station in the FSS (Earth-to-space) in a frequency band shared on an equal primary basis with the BSS, with respect to typical earth stations included in the service area of a space station in the BSS	<p><del>620-790 MHz (see Resolution 549 (WRC-07))</del></p> <p><u>1 452-1 492 MHz</u></p> <p><u>2 310-2 360 MHz (terrestrial services in all three Regions in respect of BSS allocation in No. 5.393)</u></p> <p><u>2 520-2 670 MHz (see No. 5.416) 11.7-12.7 GHz (see Article 6 of Appendix 30)</u></p> <p><u>12.5-12.7 GHz (terrestrial services in Nos. 5.494 and 5.496 as well as in Regions 2 and 3, or transmitting earth station in the FSS (Earth-to-space) in Region 1, in respect of BSS allocation in Region 3)</u></p> <p><u>12.7-12.75 GHz (terrestrial services in Nos. 5.494 and 5.496 as well as in Regions 2 and 3, or transmitting earth station in the FSS (Earth-to-space) in Regions 1 and 2, in respect of BSS allocation in Region 3)</u></p> <p><u>17.7-17.8 GHz (terrestrial services in all three Regions in respect of BSS allocation in Region 2)</u></p> <p><u>17.3-17.8 GHz (transmitting earth stations in the FSS (Earth-to-space) in respect of BSS allocation in Region 2) (see Article 4 of Appendix 30A)</u></p> <p><u>[21.4-22 GHz (Regions 1 and 3) TBD under AI 1.13]</u></p> <p><u>40.5-42.5 GHz</u></p> <p><u>74-76 GHz</u></p>	<p>i) - Necessary bandwidths overlap; and</p> <p>ii) the power flux-density (pfd) of the interfering station at the edge of the BSS service area exceeds the permissible level</p>	Check by using the assigned frequencies and bandwidths	See also Article 6 of Appendix 30

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**Reason:** The main updates to the Table are to remove the inter-dependency between the rows for No. **9.11** and No. **9.19** as the two provisions address somewhat different scenarios (i.e., BSS and terrestrial services under No. **9.11**; BSS and terrestrial stations or transmitting earth stations under No. **9.19**). Clarifications are added against allocations to layout regional differences or allocations by footnote. In addition, missing BSS allocations are added (e.g., 40.5-42.5 GHz). The 40 GHz BSS allocation is not referenced under No. **9.11** because limits are already applied to that allocation through Article 21. The 21.4-22 GHz band has been removed from the No. **9.11** table entry because the US has a proposal under Agenda Item 1.13 for hard limits for BSS under Article 21.