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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 | | **Revision 1 to Document 149(Add.7)-E** | |
|  | | **21 November 2023** | |
|  | | **Original: English** | |
|  | | | |
| Thailand | | | |
| Proposals for the work of the conference | | | |
|  | | | |
| Agenda item 1.7 | | | |

1.7 to consider a new aeronautical mobile-satellite (R) service allocation in accordance with Resolution **428** **(WRC‑19)** for both the Earth-to-space and space-to-Earth directions of aeronautical VHF communications in all or part of the frequency band 117.975-137 MHz, while preventing any undue constraints on existing VHF systems operating in the aeronautical mobile (R) service, in the aeronautical radionavigation service, and in adjacent frequency bands;

ARTICLE 5

Frequency allocations

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

MOD THA/149A7/1#1593

75.2-137.175 MHz

|  |  |  |
| --- | --- | --- |
| Allocation to services | | |
| Region 1 | Region 2 | Region 3 |
| 117.975-137 AERONAUTICAL MOBILE (R)  AERONAUTICAL MOBILE-SATELLITE (R) ADD 5.A17 ADD 5.B17  5.111 5.200 5.201 5.202 | | |

ADD THA/149A7/2#1594

5.A17 The use of the frequency band 117.975-137 MHz by the aeronautical mobile-satellite (R) service is subject to coordination under No. **9.11A**. This use is also limited to non‑geostationary-satellite systems and internationally standardized aeronautical systems.     (WRC‑23)

ADD THA/149A7/3#1595

5.B17 In the frequency band 117.975-137 MHz, space stations operating in the aeronautical mobile-satellite (R) service should ensure that the power flux-density of their unwanted emissions in the adjacent band 137-138 MHz does not exceed −166.6 dB(W/(m2 · 14 kHz)) at the Earth’s surface.     (WRC‑23)

APPENDIX 5 (REV.WRC‑19)

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

ANNEX 1     (Rev.WRC‑19)

# 1 Coordination thresholds for sharing between MSS (space-to-Earth) and terrestrial services in the same frequency bands and between non‑GSO MSS feeder links (space-to-Earth) and terrestrial services in the same frequency bands and between RDSS (space-to-Earth) and terrestrial services in the same frequency bands     (WRC‑12)

MOD THA/149A7/4#1596

## 1.1 Below 1 GHz[[1]](#footnote-1)\*

1.1.1 In the bands 137-138 MHz and 400.15-401 MHz, coordination of a space station of the MSS (space-to-Earth) with respect to terrestrial services (except aeronautical mobile (OR) service networks operated by the administrations listed in Nos. **5.204** and **5.206** as of 1 November 1996) is required only if the pfd produced by this space station exceeds −125 dB(W/(m2 · 4 kHz)) at the Earth’s surface.

1.1.2 In the band 137-138 MHz, coordination of a space station of the MSS (space-to-Earth) with respect to the aeronautical mobile (OR) service is required only if the pfd produced by this space station at the Earth’s surface exceeds:

– −125 dB(W/(m2 · 4 kHz)) for networks for which complete Appendix **3**[[2]](#footnote-2)\*\* coordination information has been received by the Bureau prior to 1 November 1996;

– −140 dB(W/(m2 · 4 kHz)) for networks for which complete Appendix **4/S4/3**\*\* coordination information has been received by the Bureau after 1 November 1996 for the administrations referred to in § 1.1.1 above.

1.1.3 In the band 137-138 MHz, coordination is also required for a space station on a replacement satellite of a MSS network for which complete Appendix **3**\*\* coordination information has been received by the Bureau prior to 1 November 1996 and the pfd exceeds −125 dB(W/(m2 · 4 kHz)) at the Earth’s surface for the administrations referred to in § 1.1.1 above.

1.1.4 In the band 117.975-137 MHz, coordination of a space station of the aeronautical mobile-satellite (R) service (space-to-Earth) with respect to the aeronautical mobile (R) service and the aeronautical mobile (OR) service is required only if the pfd produced by the space station exceeds [−148 dB(W/(m2 · 4 kHz))] at the Earth’s surface and within [TBD km] from a country’s border.     (WRC‑23)

Note: Element from this provision could be used to develop a potential new footnote.

**Reasons:** To ensure the protection of current AM(R)S systems.

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1. \* These provisions apply only to the MSS. [↑](#footnote-ref-1)
2. \*\* *Note by the Secretariat*: Edition of 1990, revised in 1994. [↑](#footnote-ref-2)