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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 | **Document 83-E** |
|  | **23 October 2023** |
|  | **Original: English** |
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| Australia/Brunei Darussalam/Korea (Republic of)/Japan/Malaysia/New Zealand/Papua New Guinea/Philippines (Republic of the)/Solomon Islands/Samoa (Independent State of)/Singapore (Republic of)/Tonga (Kingdom of)/Vanuatu (Republic of) |
| 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;

Introduction

This proposal is based on Method B1 as described in the CPM23-2 Report. There are some minor improvements to Method B1 to clarify the position of the signatories to this proposal. The differences include:

– clarifying that the threshold for coordination of AMS(R)S with respect to AM(R)S and AM(OR)S applies at the Earth’s surface over the territory of any other administration; and

– suppression of Resolution **428 (WRC‑19)**.

Proposals

ARTICLE 5

Frequency allocations

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

MOD AUS/BRU/KOR/J/MLA/NZL/PNG/PHL/SLM/SMO/SNG/TON/VUT/83/1#1593

75.2-137.175 MHz

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| 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 AUS/BRU/KOR/J/MLA/NZL/PNG/PHL/SLM/SMO/SNG/TON/VUT/83/2#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)

**Reasons:** To ensure coordination between the new AMS(R)S systems and the AM(R)S and AM(OR)S systems and to ensure that the new AMS(R)S allocation is used only by internationally standardised aeronautical systems and by non-geostationary satellite systems.

ADD AUS/BRU/KOR/J/MLA/NZL/PNG/PHL/SLM/SMO/SNG/TON/VUT/83/3#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)

**Reasons:** To ensure the protection of the incumbent services above 137 MHz from out of band emissions of AMS(R)S systems operating below 137 MHz.

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 servicesin the same frequency bands and between RDSS (space-to-Earth) and terrestrial services in the same frequency bands     (WRC‑12)

MOD AUS/BRU/KOR/J/MLA/NZL/PNG/PHL/SLM/SMO/SNG/TON/VUT/83/4#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 −140 dB(W/(m2 · 4 kHz)) at the Earth’s surface over the territory of any other administration.     (WRC‑23)

**Reasons:** To ensure the current and future AM(R)S systems are not constrained as a result of the new AMS(R)S allocation.

SUP AUS/BRU/KOR/J/MLA/NZL/PNG/PHL/SLM/SMO/SNG/TON/VUT/83/5#1611

RESOLUTION 428 (WRC‑19)

Studies on a possible new allocation to the aeronautical mobile-satellite (R) service within the frequency band 117.975-137 MHz in order to support aeronautical VHF communications in the Earth-to-space
and space-to-Earth directions

**Reasons:** Suppression of Resolution **428 (WRC-19)** because of a decision to add a new AMS(R)S allocation and a provision in RR Article **5** for AMS(R)S.

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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)