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| U.S. Radiocommunications Sector  Fact Sheet | | |
| **Working Party:** ITU-R WP 5B | **Document No:** USWP5B32-06-NC | |
| **Ref:** WRC-27 AI 1.19 | **Date:** March 25, 2024 | |
| **Document Title:** Proposed draft liaison statement to Working Party 7C | | |
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| **Purpose/Objective:** This contribution proposes a draft liaison statement to WP 7C regarding AI 1.19 to allow WP 7C to proceed with its planning for sharing and compatibility studies. | | |
| **Abstract:** Pursuant to Resolution **674 (WRC-23)**, in preparation for Agenda Item 1.19 (**WRC-27**), this contribution proposes a draft reply liaison statement to WP 7C with relevant technical information of systems operating in-bands or adjacent bands, as appropriate, to the proposed frequency bands under WRC-27 AI 1.19. | | |

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| **Radiocommunication Study Groups** |  |
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| United States of America | |
| proposed draft reply liaison statement to Working party 7c  **Relevant technical information for sharing studies under WRC-27 Agenda Item 1.19** | |
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**Introduction**

WRC-27 Agenda Item 1.19 considers possible primary allocations in all Regions to the Earth exploration-satellite service (passive) in the frequency bands 4 200-4 400 MHz and 8 400-8 500 MHz, in accordance with Resolution **674 (WRC-23)**. This contribution proposes a draft reply liaison statement to WP 7C with relevant technical information of systems operating in-bands or adjacent bands, as appropriate, to the proposed frequency bands under WRC-27 AI 1.19.

Attachment: 1

ATTACHMENT

# Working Party 5B

PROPOSAL DRAFT REPLY LIAISON STATEMENT TO WORKING PARTY 7C

**Relevant technical information for sharing studies under WRC-27 Agenda Item 1.19**

Working Party (WP) 5B thanks WP 7C for its liaison statement (Document 5B/18), requesting the characteristics and protection criteria of the systems operating in-bands or adjacent bands, as appropriate, to the proposed frequency bands 4 200-4 400 MHz and 8 400-8 500 MHz under WRC-27 AI 1.19, for sharing/compatibility studies.

WP 5B notes that the frequency band 4 200-4 400 MHz is allocated to the primary aeronautical mobile (R) service (AM(R)S) for use of wireless avionics intra-communication systems (WAICS) under RR No. 5.436, and to the primary aeronautical radionavigation service (ARNS) for use of radio altimeters onboard aircraft and associated transponders on ground under RR No. 5.438. The adjacent frequency band 4 400-4 500 MHz is allocated to the primary aeronautical mobile service. The adjacent frequency band 8 500-8 550 MHz is allocated to the primary radiolocation service. WP 5B highlights the following ITU-R Recommendations and Reports that provide relevant technical information to conduct sharing and compatibility studies:

**Recommendation ITU-R M.2059-0** Operational and technical characteristics and protection criteria of radio altimeters utilizing the band 4 200-4 400 MHz (02/2014)

**Recommendation ITU-R M.2067-0** Technical characteristics and protection criteria for Wireless Avionics Intra-Communication systems (02/2015)

This recommendation provides the technical and operational characteristics and protection criteria for wireless avionics intra-communication (WAIC) systems operating in the frequency band 4 200-4 400 MHz, as described in its Annex.

**Report ITU-R M.2319-0** Compatibility analysis between wireless avionic intra-communication systems and systems in the existing services in the frequency band 4 200-4 400 MHz (11/2014)

This report contains compatibility studies between radio altimeters and WAIC systems on board separate aircraft in the 4 200-4 400 MHz band.

**Recommendation ITU-R M.2116-0** Technical characteristics and protection criteria for the aeronautical mobile service systems operating within the 4 400-4 990 MHz frequency range

This recommendation is being revised in ITU-R WP 5B. The latest information can be found in Annex XX of the Chairman’s Report (5B/XXX).

**Recommendation ITU-R M.1796-3** Characteristics of and protection criteria for radars operating in the radiodetermination service in the frequency band 8 500-10 680 MHz (02/2022)

WP 5B requests to be kept informed on the progress of the studies under WRC-27 agenda item 1.19 and will provide to WP 7C any relevant updated information, before 31 December 2024 deadline, for studies under this WRC-27 agenda item.

Status: For action

Contact: TBD E-mail: TBD