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| U.S. Radiocommunications Sector  Fact Sheet | | |
| **Working Party:** ITU-R WP 5B | **Document No:** USWP5B33-23 | |
| **Ref:** Annex 9 to Document 5B/96-E  WRC-27 Agenda Item 1.11 | **Date:** August 15, 2024 | |
| **Document Title:** DRAFT REPLY LIAISON STATEMENT TO WORKING PARTY 4C | | |
| **Author(s)/Contributors(s):**  Tatiana Lawrence  Iridium  Damon Ladson  HWG LLP for Iridium  Brennan Price  Viasat | | Email: [tatiana.lawrence@iridium.com](mailto:tatiana.lawrence@iridium.com)  Phone: +1 240 271-2751  Email: [dladson@hwglaw.com](mailto:dladson@hwglaw.com)  Phone: +1 301 728-7253  Email: [brennan.price@inmarsat.com](mailto:brennan.price@inmarsat.com) [sic] Phone: +1 703 223-3327 |
| **Purpose/Objective:** To update and finalize WP 5B’s reply liaison statement to WP 4C concerning information for sharing studies under WRC-27 agenda item 1.11. | | |
| **Abstract:** This document responds to WP 4C’s request for material relevant to work on WRC-27 agenda item 1.11. by providing references for relevant technical characteristics, protection criteria, and other information under the purview of WP 5B for frequency bands specified in WRC-27 agenda item 1.11. | | |

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| **Radiocommunication Study Groups** |  |
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| DRAFT REPLY LIAISON STATEMENT TO WORKING PARTY 4C | |
| Information for sharing studies under WRC-27 agenda item 1.11 | |

Working Party (WP) 5B thanks WP 4C for its liaison statement (Doc. [5B/75](https://www.itu.int/md/R23-WP5B-C-0075/en)) requesting material relevant to work on WRC-27 agenda item 1.11. The agenda item considers the technical and operational issues and regulatory provisions for space-to-space links among non-geostationary and geostationary satellites in various frequency bands allocated to the mobile-satellite service (MSS). This contribution provides relevant technical characteristics, protection criteria, and other information for frequency bands specified in WRC-27 agenda item 1.11 that are under the purview of WP 5B.

Frequency bands and relevant information

Aeronautical mobile telemetry systems

Frequency band: 1 518-1 544 MHz

Protection criteria: WP 5B references Recommendation ITU-R M.1459 – *Protection criteria for telemetry systems in the aeronautical mobile service and mitigation techniques to facilitate sharing with geostationary broadcasting-satellite and mobile-satellite services in the frequency bands 1 452‑1 525 MHz and 2 310-2 360 MHz*. The Recommendation specifies the protection criteria for telemetry systems in the aeronautical mobile service and includes mitigation techniques for sharing with geostationary broadcasting-satellite and mobile-satellite services. Based on this Recommendation, Table **21-4** in Article **21** sets forth pfd limits applicable to MSS space-to-Earth for protection of telemetry systems over the territory of the United States in the band 1 518-1 525 MHz.

Operational characteristics: Refer to Report ITU-R M.2286-0 – *Operational characteristics of aeronautical mobile telemetry systems* which describes the operational details of aeronautical mobile telemetry (AMT) systems.

WP5B further notes, with respect to the band 1 518-1 544 MHz, that “[i]n Region 2, the use of the band 1 435-1 535 MHz by the aeronautical mobile service for telemetry has priority over other uses by the mobile service.” RR No. **5.343**; see also **5.348B**.

Aeronautical radionavigation service

Frequency band: 1 610-1 626.5 MHz

Current Status: There are currently no ARNS operations in the 1 610-1 626.5 MHz band as ICAO has not been approached to develop SARPs for ARNS in this band. There are no known ITU-R Recommendations or Reports concerning the use of ARNS in this band.

In addition, AMS(R)S is expected to continue operating in this band pursuant to ICAO SARPs.

[Radiolocation service

Frequency band: 2 483.5-2 500 MHz

Protection criteria: WP 5B will identify and provide relevant ITU-R Recommendations and Reports that pertain to the radiolocation service operating in this band. These documents would support the sharing and compatibility studies required under WRC-27 agenda item 1.11.]

Further contributions and updates

WP 5B would like to be kept informed on the progress of the studies under WRC-27 agenda item 1.11.

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| **Status:** For action | |
| **Contact:** [TBD] | **E-mail:** [TBD] |