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| U.S. Radiocommunications SectorFact Sheet |
| **Working Party:** ITU-R WP 5C | **Document No:** USWP5C-03-FAA |
| **Ref:** WRC-27 AI 1.15 | **Date:** March 6, 2024 |
| **Document Title:** Proposed draft liaison statement to Working Party 7B |
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| **Purpose/Objective:** This contribution proposes a draft liaison statement to WP 7B regarding AI 1.15, which will allow WP 7B to proceed with its planning for sharing and compatibility studies. |
| **Abstract:** Pursuant to Resolution **680 (WRC-23)**, in preparation for Agenda Item 1.15 (**WRC-27**), this contribution proposes a draft reply liaison statement to WP 7B with relevant technical information of fixed systems used for the provision of air navigation services operating in the frequency bands 7 190-7 235 MHz and 8 450-8 500 MHz. |

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| **Radiocommunication Study Groups** |  |
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| **English only** |
| United States of America |
| proposed draft reply liaison statement to Working party 7B**Relevant technical information for sharing studies under WRC-27 Agenda Item 1.15** |
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**Introduction**

WRC-27 Agenda Item 1.15 considers possible new or modified space research service (space-to-space) allocations, for future development of communications on the lunar surface and between lunar orbit and the lunar surface, in accordance with Resolution **680 (WRC 23)**. This contribution proposes a draft reply liaison statement to WP 7B with relevant technical information of fixed systems used for the provision of air navigation services operating in the frequency bands 7 190-7 235 MHz and 8 450-8 500 MHz.

Attachment: 1

ATTACHMENT

# Working Party 5C

PROPOSAL DRAFT REPLY LIAISON STATEMENT TO WORKING PARTY 7B

**Fixed service characteristics for use in sharing
 studies under WRC-27 agenda item 1.15**

Working Party (WP) 5C thanks WP 7B for its liaison statement (Document 5C/XX), requesting the characteristics and protection criteria of the fixed service (FS) systems operating in the frequency bands, 7 190-7 235 MHz and 8 450-8 500 MHz, for sharing/compatibility studies between the FS and space research service (space-to-space) under WRC-27 agenda item 1.15.

In response to a request from WP 7B for FS characteristics, WP 5C highlights the following ITU-R recommendations and revised recommendations that provide relevant technical information about FS systems which may be further revised:

**Recommendation ITU-R F.758-7** System parameters and considerations in the development of criteria for sharing or compatibility between digital fixed wireless systems in the fixed service and systems in other services and other sources of interference (11/2019)

**Document 5C/384 Annex 7** Preliminary Draft Revision of Recommendation (PDRR) ITU-R F.758-7 where technical characteristics of FS systems in Tables 6 to 11 are updated/added. Amendments were made throughout the document to improve the clarity of the text.

This recommendation and its proposed revision contain the principles for the development of sharing criteria of digital systems in the FS. Representative technical characteristics of digital fixed wireless systems (FWS) are in Annex 2 Table 9 of Document 5C/384 Annex 7 for the 7 190-7 235 MHz band and the 8 450-8 500 MHz band. Table 5 of Annex 2 provides guidance in the choice of I/N values for long-term sharing criteria/interference.

**Recommendation ITU-R F.699-8** Reference radiation patterns for fixed wireless system antennas for use in coordination studies and interference assessment in the frequency range from 100 MHz to 86 GHz (01/2018)

**Document 5C/384 Annex 2** Preliminary Draft Revision of Recommendation (PDRR) ITU-R F.699-8 provides updated antenna patterns and extends the upper frequency from 86 to 174.8 GHz.

This recommendation and its proposed revision provide reference radiation patterns for, and information on, FWS antennas in the frequency range from 100 MHz to 174.8 GHz. This information may be used in coordination studies and interference assessments when particular information concerning the FWS antenna is not available. It is proposed that FWS antenna patterns in PDRR ITU-R F.699 are used in sharing studies under this agenda item.

WP 5C requests to be kept informed on the progress of the studies under WRC-27 agenda item 1.15 and will provide to WP 7B updated relevant information, before the 31 December 2024 deadline, for studies under this WRC-27 agenda item.

Status: For information and action, as appropriate

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