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| U.S. Radiocommunications Sector  Fact Sheet | |
| **Working Party:** ITU-R WP 7B | **Document No:** US7B\_27\_008\_NC |
| **Ref:**  Resolution **680 (WRC-23)**  WRC-27 Agenda Item **1.15** | **Date:** 12 February 2024 |
| **Document Title:** Draft LS to Contributing Working Parties for WRC-27 Agenda Item **1.15** | |
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| **Purpose/Objective:** The purpose of this contribution is to support the work under WRC-27 agenda item 1.15 and Resolution **680** from contributing groups. | |
| **Abstract:** WRC-23 adopted Resolution **680** and WRC-27 Agenda Item **1.15** to study sharing and compatibility between SRS systems and incumbent services in specific frequency ranges. To support the work in WP7B, this draft Liaison Statement requests:  (1) technical and operational characteristics of incumbent systems operating in the frequency ranges in Resolution **680** from WP 4A, WP 4C, WP 5A, WP 5B, WP 5C, WP 5D, WP 7A, WP 7C, and WP 7D  (2) propagation characteristics for lunar surface systems and lunar-orbiting systems for frequency ranges in Resolution **680** from WP 3J | |

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| **Radiocommunication Study Groups** |  |
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| Received:  Reference: Resolution **680 (WRC-23)** | **Document 7B/ABC-E** |
| **XX March 2024** |
| **English only** |
| United States of America | |
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| Proposed LiAISON Statement Regarding WRC-27 Agenda Item 1.15 | |

Based on the results of CPM27-1, Working Party (WP) 7B is responsible for carrying out studies under WRC-27 agenda item 1.15 on frequency-related matters, including 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),** in the frequency ranges (or portions thereof) below:

• 390-406.1 MHz, 420-430 MHz and 440-450 MHz, limited to outside the SZM

• 2 400-2 690 MHz, 3 500-3 800 MHz, 5 150-5 570 MHz, 5 570-5 725 MHz, 5 775-5 925 MHz, 7 190-7 235 MHz, 8 450-8 500 MHz and 25.25-28.35 GHz

In the attachment, the U.S. proposes a liaison statement be sent to contributing working groups with a request to provide the information necessary for conducting studies on WRC-27 agenda item 1.15.

Attachment.

**ATTACHMENT**

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| **Radiocommunication Study Groups** |  |
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|  | **Document xx-E** |
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| Working Party 7B | |
| DRAFT Liaison statement for action To ITU-R Working parties 3J, 4A, 4C, 5A, 5B, 5C, 5D, 7A, 7C, and WP 7D, and for information to Working Party 1B | |
| Relevant technical information to support studies under WRC-27 agenda item 1.15 | |

Based on the results of CPM27-1, Working Party (WP) 7B is responsible for carrying out studies under WRC-27 agenda item 1.15 on frequency-related matters, including 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),** in the frequency ranges (or portions thereof) below:

• 390-406.1 MHz, 420-430 MHz and 440-450 MHz, limited to outside the SZM

• 2 400-2 690 MHz, 3 500-3 800 MHz, 5 150-5 570 MHz, 5 570-5 725 MHz, 5 775-5 925 MHz, 7 190-7 235 MHz, 8 450-8 500 MHz and 25.25-28.35 GHz

In order to perform the requisite sharing and compatibility studies of radiocommunication services allocated on a primary basis including those listed in *recognizings* *g)* through *n)* of Resolution **680** **(WRC-23)**, WP 7B requests Working Parties 4A, 4C, 5A, 5B, 5C, 5D, 7A, and 7C to provide information on the technical and operational characteristics, as well as protection criteria, for the primary services and systems/applications within their areas of responsibility in the frequency ranges listed in the first paragraph above.

In addition, to perform these studies, WP 7B requests that:

* WP 3J provide the relevant propagation characteristics for lunar surface systems and lunar-orbiting systems for the frequency ranges listed in the first paragraph above, and
* WP 7D provide the technical and operational characteristics, as well as protection criteria, for the radio astronomy service (RAS) on the Earth and in the shielded zone of the moon in the same, adjacent, or nearby bands to those listed in the first paragraph above.

WP 7B looks forward to the close coordination with the contributing Working Parties and will keep these groups apprised as the work develops under agenda item 1.15.

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| **Status:** | For action or information, as indicated |
| **Deadline:** | 31 December 2024 |
| **Contact person(s):** |  |

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