| **US Radiocommunication Sector** **FACT SHEET** |
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| **Study Group:** USWP 5B | **Document No:** USWP5B26-22 |
| **Reference:** [WRC-23 5D/398](https://www.itu.int/md/R19-WP5D-C-0398/en), [WRC-19 5D/1192](https://www.itu.int/md/R15-WP5D-C-1192/en) | **Date:** 30 March 2021 |
| **Document Title:** Draft Reply Liaison to Working Party 5D concerning WRC-23 Agenda Item 1.2 |
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| **Purpose/Objective**: To reply to WP 5D with the antenna patterns relating to the required sharing and compatibility studies to be carried out under WRC-23 agenda item 1.2.  |
| **Abstract**: At the November 2020 meeting, WP 5B sent a reply liaison statement to WP 5D which informs an update on Recommendations ITU-R M.1465 and M.1796. This contribution proposes a further reply from WP 5B to WP 5D on AI 1.2. |
| **Fact Sheet Preparer:** Dominic Nguyen |

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| **Radiocommunication Study Groups** |  |
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| **XX May 2021** |
| **English only** |
|  | **SPECTRUM ASPECTS** |

**United States of America**

REPLY LIAISON STATEMENT TO WORKING PARTY 5D FOR AGENDA ITEM 1.2

**1 Introduction**

The United States of America proposes a further reply liaison statement from WP 5B to WP 5D on AI 1.2.

Attachment revisions are presented for consideration.

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| Working Party 5B |
| REPLY LIAISON STATEMENT to working party 5D |
| WRC-23 agenda item 1.2 (Sharing and compatibility studies between IMT systems in 3 300‑3 400 MHz and 10-10.5 GHz) |

Working Party (WP) 5B thanks WP 5D for the liaison statement ([5B/156](https://www.itu.int/md/R19-WP5B-C-0156/en)). In WP 5B’s previous liaison statement ([5D/398](https://www.itu.int/md/R19-WP5D-C-0398/en)), WP 5B provided updates on Recommendations ITU‑R M.1465, “Characteristics of and protection criteria for radars operating in the radiodetermination service in the frequency range 3 100-3 700 MHz” and ITU-R M.1796, “Characteristics of and protection criteria for terrestrial radars operating in the radiodetermination service in the frequency band 8 500-10 680 MHz.” (See attachment 5B/XX Annexes YY and ZZ)

WP 5B would like to provide the following guidance on future studies relative to sharing and compatibility between IMT systems and radiolocation systems.

1. Recommendation ITU-R M.1851, “Mathematical models for radiodetermination radar systems antenna patterns for use in interference analyses” should be used as an antenna pattern reference for land-based and ship borne radars, as well as airborne radars.

WP 5B looks forward to continued collaboration with WP 5D on the progress of WRC-23 agenda item 1.2.

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| **Status:** For information and action as appropriate |
| **Contact:**  | **E-mail:**   |

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