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| **U.S. Radiocommunications Sector****Fact Sheet** |
| **Working Party:** ITU-R WP-5B | **Document No:** USWP5B34-XX |
| **Ref:** 5B/208 | **Date:** 5 February 2025 |
| **Document Title:** Reply Liaison Statement to WP 4A regarding Agenda Item 1.2 |
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| **Purpose/Objective:** The purpose of this document is to respond to WP 4A regarding information pertaining to radiolocation service operating in the 13.75-14 GHz frequency band that is under consideration for Agenda Item 1.2. |
| **Abstract:** WP 4A sent a liaison statement to WP 5B requesting information on protection criteria and additional characteristics for radiolocation systems that were not currently available. At the November meeting, WP 5B was unable to agree to a reply liaison statement so an extension for providing information was requested at the subsequent SG 5 meeting. This extension was granted by the CPM management team so this document proposes to fulfill this request.  |

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| **Radiocommunication Study Groups** | A blue logo with a black background  Description automatically generated |
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| **XX April 2025** |
| **English only** |
| **United States of America** |
| Draft reply Liaison statement to Working Party 4A |
| **Relevant technical information to support studiesunder WRC-27 agenda item 1.2** |

Working Party 5B (WP 5B), as a contributing group to WRC-27 agenda item 1.2, has received a liaison statement from WP 4A (Doc. 5B/208) requesting additional relevant technical information of radiolocation systems under WP 5B’s purview operating on a primary basis in the 13.75-14 GHz frequency band. In the Attachment, the United States proposes a draft reply liaison statement providing a response to this request for information.

**Attachment:** 1

ATTACHMENT

**Working Party 5B**

 REPLY LIAISON STATEMENT TO WORKING PARTY 4A

**Relevant technical information to support studies
under WRC-27 agenda item 1.2**

Working Party (WP) 5B would like to thank WP 4A for its liaison statement 5B/208.

Regarding the request for information on missing parameters for airborne radars, WP 5B would like to note that a revision to Recommendation ITU-R M.1644 has been initiated and can be found in Annex XX to the Chairman’s Report in document 5B/XX.

Regarding the request for clarification on percentage of time associated to the protection criteria, WP 5B would like to indicate that currently there is no percentage of time associated to the I/N protection criteria of -6 dB in Recommendation ITU-R M.1644.

WP 5B would also like to bring to WP 4As attention Recommendation ITU-R M.1461 “Procedures for determining the potential for interference between radars operating in the radiodetermination service and systems in other services”. This Recommendation contains Note 3 in section 3.2 describing degradation of sensitivity that states:

NOTE 3 – Most radiodetermination radar antennas scan 360° in azimuth to substantial elevation angles. However some radar system antenna scan in sectors or randomly, but the radar platform can ordinarily be oriented in any azimuth. Interference to radar systems generally occurs when the radar antenna mainbeam points at the undesired signal. Therefore, the radar mainbeam should ordinarily be used in the analysis. In some special situations, the radar mainbeam may not illuminate the interacting station (e.g. sector blanking), in which case the appropriate antenna sidelobe level should be used.

WP 5B also notes that 5.502 indicates “Before an administration brings into use an earth station in a geostationary-satellite network in the fixed-satellite service in this band with an antenna diameter smaller than 4.5 m, it shall ensure that the power flux-density produced by this earth station does not exceed:

– –115 dB(W/(m2 · 10 MHz)) for more than 1% of the time produced at 36 m above sea level at the low water mark, as officially recognized by the coastal State;

– –115 dB(W/(m2 · 10 MHz)) for more than 1% of the time produced 3 m above ground at the border of the territory of an administration deploying or planning to deploy land mobile radars in this band, unless prior agreement has been obtained”.

WP 5B would like to work in close cooperation with WP 4A and requests to be kept informed of the progress under this Agenda Item as it progresses in WP 4A.

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

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