| **US Radiocommunication Sector**  **FACT SHEET** | | | |
| --- | --- | --- | --- |
| **Study Group:** USWP 7C | | **Document No:** US 7C/27-044NC | |
| **Reference:** Doc. 7C/159 | | **Date:** 12 February 2025 | |
| **Document Title:**  Draft Reply Liaison Statement to WP 4C on Updates regarding PDN Report ITU-R RS.[AGG\_EESS\_SAR-RNSS] | | | |
| **Authors** | **Telephone** | | **E-Mail** |
| Steve Baruch (for GPSIA)  Tom Hayden (for GPS)  John Zuzek (ASRC for NASA)  Andre Tkacenko (NASA JPL) | 240-476-2600  425-443-1837  440-656-7365  (626) 399-6833 | | [sbaruch@newwavespectrum.com](mailto:sbaruch@newwavespectrum.com)  Tom.Hayden@live.com  [jzuzek@asrcfederal.com](mailto:jzuzek@asrcfederal.com)  [Andre.Tkacenko@jpl.nasa.gov](mailto:Andre.Tkacenko@jpl.nasa.gov) |
| **Purpose/Objective**: The purpose of this document is to provide a reply to the liaison statement from WP 4C in Doc. 7C/159 on the subject of EESS (active) interference evaluation/sharing with respect to the RNSS in the 1215-1300 MHz band. | | | |
| **Abstract**: This contribution proposes a draft reply to the liaison statement from WP 4C’s October 2024 meeting (Doc. 7C/159), to continue the dialogue on evaluation of interference from EESS (active) SAR sensors to RNSS receivers in the 1215-1300 MHz band. | | | |
| **Fact Sheet Preparer:** Steve Baruch/GPSIA | | | |

|  |  |
| --- | --- |
| **Radiocommunication Study Groups** | Logo  Description automatically generated |
|  |  |
|  |  |
| Received: \_\_ March 2025  Source: Document 7C/159 | **Document 7C/\_\_-E** |
| **\_\_ March 2025** |
| **English only** |
| United States of America | |
| Draft Reply Liaison Statement to Working Party 4C on RNSS-related comments on preliminary draft new Report ITU-R RS.[AGG\_EESS\_SAR-RNSS] | |
|  | |

In this contribution, the United States proposes the template for a reply liaison statement to WP 4C, in response to Document 7C/159 from the September 2024 meeting of WP 4C, to apprise WP 4C of updates made at the March 2025 meeting of WP 7C.

**Attachments:** 1

|  |
| --- |
| **ATTACHMENT**  Draft Reply liaison statement to Working Party 4C |
| Updates regarding Working Party 7C consideration of RNSS-related comments on Preliminary draft new Report ITU-R RS.[AGG\_EESS\_SAR-RNSS] (Questions ITU-R 217-2/4 and ITU-R 288/4) |

Working Party (WP) 7C thanks WP 4C for its liaison statement in Doc. 7C/159.

At its March 2025 meeting, WP 7C continued work toward a preliminary draft new Report to provide a mechanism for evaluating the cumulative impact of multiple spaceborne active sensors, including all known planned and currently operating SAR sensors, that simultaneously illuminate RNSS receivers, wherever relevant. This report will be aligned with the revision to Report ITU-R M.2305-0, "Consideration of aggregate radio frequency interference event potentials from multiple Earth exploration-satellite service systems on radionavigation-satellite service receivers operating in the 1 215-1 300 MHz frequency band,” now under development in WP 4C. It is appropriate to have guidance within the Study Group 7 literature on how EESS (active) SAR sensors would ensure that the simultaneous interference from multiple SAR sensors into a single RNSS receiver would remain within tolerable levels, and it is important to ensure that the guidance is consistent with work already published in the ITU-R. Annex 2 to WP 7C’s Preliminary Draft New Report ITU-R RS.[AGG\_EESS\_SAR-RNSS] (Annex \_\_ to WP 7C Chairman’s Report Doc. 7C/\_\_\_), is aligned with new Annex to the PDRR of Report ITU-R M.2305 sent by WP 4C.

Finally, as WP 7C has previously indicated to WP 4C, if at some future time WP 7C decides to address the evaluation of interference from EESS (active) scatterometer sensors to RNSS receivers, WP 7C agrees that the studies previously provided by WP 4C (see Document [7C/41](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=R15-WP7C-C-0041) from 2016) that address the relationship of the RNSS receiver code tracking loop bandwidth to the evaluation of interference from EESS (active) scatterometer sensors would be important to take into consideration. WP 7C appreciates the improved presentations and descriptions of those studies provided by WP 4C in Appendix B of Report ITU‑R M.2496. WP 7C notes that the studies and conclusions related to the dynamic duty cycle factor (DDCF) are valid for the assumption of observation times (τ*obs*) of 200 ms or greater. However, WP 7C may wish to revisit this topic in the future if EESS (active) scatterometer sensors with τ*obs* less than 200 ms are envisioned.

Working Party 7C looks forward to continued cooperation with WP 4C on this topic.

|  |  |
| --- | --- |
| **Status:** For information and action, as appropriate |  |
| **Deadline:** 31 August 2025 |  |
| **Contact:**  TBD | **E-mail:** TBD |

**Attachment:** Document 7C/[TBD], Annex [TBD] –Preliminary Draft New Report ITU-R RS.[AGG\_EESS\_SAR-RNSS]