|  |
| --- |
| **U.S. Radiocommunications Sector****Fact Sheet** |
| **Working Party:** ITU-R WP 4C | **Document No:**  USWP4C-04 |
| **Ref:** Documents 4C/448 and 7C/482, Questions ITU-R 217-2/4 and 288/4 | **Date:** 23 February 2024 |
| **Document Title:** Proposed Draft Liaison Statement to Working Party 7C on EESS-RNSS Matters |
| **Author(s)/Contributors:**Rick MerchantSSC/CGEP USSFLos Angeles AFB, CATiange (George) Fan, for GPSThe Aerospace CorporationEl Segundo, CATom L. Hayden, for GPSTLH ConsultingSeattle, WAStephen Baruch, for GPSIANew Wave Spectrum Partners LLCDallas, TXMark Rentz, for GPSIAJohn DeereTorrance, CA | Phone: (310) 653-1871Email: rick.merchant.2@spaceforce.milPhone: (310) 336-1252Email: Tiange.Fan@aero.orgPhone: (425) 443-1837Email: Tom.Hayden@live.comPhone: (240) 476-2600Email: sbaruch@newwavespectrum.comPhone: (310) 381-2607Email: RentzMarkL@JohnDeere.com |
| **Purpose/Objective:** To provide a Draft Liaison Statement for WP 4C to send to WP 7C on EESS-RNSS matters.  |
| **Abstract:** This contribution is intended to propose a Draft Liaison Statement for WP 4C to send to WP 7C on EESS-RNSS matters, including RFI compatibility between EESS (active) transmitters and RNSS receivers operating in the 1 215‑1 300 MHz frequency band. The October 2023 WP 7C meeting sent a reply LS to WP 4C (Document 4C/448*, “Updates regarding Working Party 7C consideration of draft new Recommendation ITU-R RS.[EESS\_SAR-RNSS], draft new Report ITU-R RS.[EESS\_SAR-RNSS], and working document towards a PDN Report ITU-R RS.[AGG\_EESS\_SAR-RNSS]”)* in response to Doc. 7C/482, Reply Liaison Statement to WP 7C on EESS-RNSS Matters (from WP 4C’s June/July 2023 meeting). The contribution will update WP 7C on relevant developments during the April 2024 WP 4C meeting.  |
| **Fact Sheet prepared by:** Steve Baruch |

|  |  |
| --- | --- |
| **Radiocommunication Study Groups** | Logo  Description automatically generated  |
| Sources: Documents 4C/448 and 7C/482Subject: Questions ITU-R [217-2/4](https://www.itu.int/pub/R-QUE-SG04.217) and ITU-R [288/4](http://www.itu.int/pub/R-QUE-SG04.288) | **Document 4C/\_\_\_-E** |
| **\_\_ April 2024** |
| **English only** |
| **United States of America** |
| Proposed Draft Reply Liaison Statement to Working Party 7C on EESS-RNSS Matters |
| (Questions ITU-R 217-2/4 and 288/4) |

**Introduction**

The attachment to this contribution proposes a Draft Reply Liaison Statement on EESS-RNSS matters for WP 4C to modify as appropriate and send to WP 7C.

**Attachment:** 1

**Attachment**

**Working Party 4C**

Draft Reply Liaison Statement to Working Party 7C

**RNSS-Related Comments on Preliminary Draft New Report ITU-R RS.[EESS\_SAR-RNSS], Preliminary Draft New
Recommendation ITU-R RS.[EESS\_SAR-RNSS], and Working Document toward Preliminary Draft New Report ITU-R RS.[AGG\_EESS\_SAR-RNSS]**

Working Party (WP) 4C thanks WP 7C for its liaison statement in Document 4C/448 (2019-2023 Study Cycle) regarding evaluation of interference from EESS (active) systems and RNSS systems operating in the frequency band 1 215‑1 300 MHz. WP 4C is pleased to note that WP 7C completed its work on what are now Recommendation ITU-R RS.2165 and Report ITU-R RS.2537-0. WP 4C thanks WP 7C for the good and constructive cooperation during the long development phase of these two important documents.

With respect to the working document toward a preliminary draft new Report in Annex 7 to Doc. 7C/459 to address the possibility of aggregate emissions from multiple EESS (active) SAR sensors simultaneously affecting RNSS receivers, WDPDN Report ITU-R RS.[Agg\_EESS\_SAR-RNSS], WP 4C supports the determination of WP 7C that the report “will be aligned with the revision to Report ITU-R M.2305 . . .” on the same subject. WP 4C is pleased to note that WP 7C agrees that it is important that 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 be consistent with work already published in the ITU-R.

Finally, WP 4C reiterates that the studies previously provided to WP 7C that address the relationship of the RNSS receiver code tracking loop bandwidth to the evaluation of interference to RNSS receivers from EESS (active) scatterometer sensors would be important to take into any future consideration of EESS (active) scatterometer sensors.

WP 4C appreciates being kept informed of the status of all EESS-RNSS related work within WP 7C and requests that WP 7C keep it apprised of future progress on subjects concerning potential interference to RNSS receivers.

|  |
| --- |
| **Status:** For information and action, if any  |
| **Deadline:** 30 September 2024 |  |
| **Contact:**  TBD | **E-mail:** TBD |

\_\_\_\_\_\_\_\_\_\_\_\_\_\_