

**THE JOINT STAFF
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MEMORANDUM FOR PROGRAM EXECUTIVE OFFICE INTELLIGENCE, ELECTRONIC
WARFARE, AND SENSORS
HEADQUARTERS U.S. ARMY COMMUNICATIONS -
ELECTRONIC COMMAND

Attention: Ms. Aladrian Wetzel, (443) 861-3121,
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Subject: Joint Tactical Terminal Integrated Broadcast Service
(JTT-IBS) AN/URC-145A v3.0 and v2.3.3, Request for UHF
Certification Waiver Based on Joint Interoperability Test Command
(JITC) Assessment

1. References:

- a. Product Lead Joint Tactical Terminal Memorandum for The Joint Staff, subject: JTT-IBS AN/URC-145A v3.0, Request for UHF Certification Waiver Based on JITC Assessment, 05 November 2019
- b. Headquarters U.S. Army Communications - Electronics Command Memorandum for the Joint Staff, subject: JTT-IBS AN/URC-145A v2.3.3, Request for UHF Certification Waiver Based on JITC Assessment, 28 October 2019
- c. JITC Assessment 2019-4TB03.142-18344, subject: Ultrahigh Frequency (UHF) Satellite Communications (SATCOM) Standards Conformance Assessment of the DRS Joint Tactical Terminal Integrated Broadcast Service (JTT-IBS) System, 19 July 2019
- d. JITC Assessment 2018-39026.32-17975, title: Ultrahigh Frequency (UHF) Satellite Communications (SATCOM) Standards Conformance Assessment of the DRS JTT-IBS System, 13 August 2018
- e. Correspondence Emails, COMNAVNETWARCOM VA, Cipriano Deluna, subject: RE: (U//FOUO) UHF Certification Waiver, 18 Oct 2019 and 7 November 2019

f. U.S. Army Space and Missile Defense Command, Narrowband Consolidated-SATCOM Systems Expert (C-SSE), DRS Technologies JOINT TACTICAL TERMINAL (JTT) Integrated Broadcast Service (JTT-IBS) AN/USC-145A v3.0 and v2.3.3 WAIVER RECOMMENDATIONS (FOR MIL-STD-188-181C, 182B, 183B, AND IBS CIB IOS), 05 November 2019 and 09 October 2019

g. U.S. Space Command/J36 Email, DRS JOINT TACTICAL TERMINAL Integrated Broadcast Service (JTT-IBS) AN/USC-145A v3.0 and v2.3.3 WAIVER RECOMMENDATIONS (FOR MIL-STD-188-181C, 182B, 183B, AND IBS CIB IOS), 03 January 2020

2. Waiver determination:

a. Product Lead Joint Tactical Terminal and Headquarters U.S. Army Communications - Electronics Command requested (Reference (a) and (b)) MIL-STD conformance waivers for the JTT-IBS v3.0 and v2.3.3 due to JITC testing (Reference (c) and (d)) only showing some non-conformance test failures with minor impacts.

b. As a result, Navy/NETWARCOM, USASMDC, and USSPACECOM/J36 recommended (References (e), (f), and (g)) waivers for the JTT-IBS v3.0 and v2.3.3 due to these minor impacts. However, mitigation actions were also recommended to address three of the minor impacts.

c. Joint Staff concurs with Navy/NETWARCOM, Narrowband C-SSE, and USSPACECOM/J36 recommendations and grants 5-yr waivers for the JTT-IBS v3.0 and v2.3.3 systems with the following contingencies:

(1) MIL-STD-188-181C Requirement 33 (Para 5.2.1.9.2.2(1)) and MIL-STD-188-183B Requirement 17 (Para 4.4.2.3(2)) - Develop workcards, checklists, etc. to ensure Effective Isotropically Radiated Power (EIRP) limits are not exceeded causing Adjacent Channel Emission (ACE) interference.

(2) MIL-STD-188-182B Requirement 166 (Para 5.7.2.3(3)) - Develop Tactics, Techniques, and Procedures (TTPs) to highlight: "1) Switching to new Demand Assigned Multiple Access (DAMA) Forward Order Wire (DFOW) on a different satellite will cause the terminal to "lock-up" and become unresponsive, 2) Terminal power must be recycled in this situation, and 3) Recommend only using System FOW (SFOW) to find information on assigned Integrated Waveform (IW) services.

(3) MIL-STD-188-186 Requirement 92 (Para 5.3.2.6.3 (3)) - Provide training to JTT-IBS operators on converting Terminal Bandwidth (BW) allocation field value to bytes/frame.

d. Provide confirmation of contingency completion, and associated documentation, to the Joint Staff by the end of CY2020. Waiver may be rescinded if confirmation or associated documentation is not provided at the end of this time.

3. Disclaimer.

a. Narrowband Legacy SATCOM resources are diminishing and SATCOM access could be fully or partially denied based on availability.

b. This waiver may be revoked at any time if it becomes apparent the use of the terminal creates a detrimental impact on other narrowband users. Additionally, the Narrowband C-SSE office must be notified of any subsequent planned hardware or software upgrades or changes to the tested configuration of the terminal prior to use over the satellite implementation. Upon receipt of the modification details, the Narrowband C-SSE will review and assess the proposed terminal changes to provide guidance regarding steps necessary to maintain the associated waiver.

4. POC is Mr. Stephen Chieh, Narrowband SATCOM, stephen.t.chieh.ctr@mail.mil, Tel: (703) 695-9875, DSN 225-9875.



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