

**THE JOINT STAFF
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20 MAY 2021

MEMORANDUM FOR Program Executive Officer, Command, Control,
Communications, Computers and Intelligence, PMW/A 170

Attention: Point of Contact, LCDR Suzanne Schrump, (619) 524-3783,
suzanne.schrump@navy.mil

Subject: Joint Staff Waiver for AN/USC-61(C) Digital Modular Radio
(DMR) Versions (V) 6.5.2, 6.5.2.1, and 6.5.4 Legacy and Integrated
Waveform (IW) Narrowband (NB) Satellite Communications (SATCOM)

1. References:

- a. Memorandum, PMW/A 170, 13 April 2021, subject: REQUEST FOR AN/USC-61(C) DIGITAL MODULAR RADIO (DMR) VERSION 6.5.4 LEGACY AND INTEGRATED WAVEFORM (IW) NARROWBAND SATELLITE COMMUNICATIO S (SATCOM) WAIVER
- b. Memorandum, PMW/A 170, 3 Sep 2020, subject: REQUEST FOR AN/USC-61(C) DIGITAL MODULAR RADIO (DMR) VERSION 6.5.2 AND VERSION 6.5.2.1 LEGACY AND INTEGRATED WAVEFORM (IW) NARROWBAND SATELLITE COMMUNICATIO S (SATCOM) WAIVER
- c. Correspondence Emails, COMNAVNETWARCOM VA, Cipriano Deluna, 4 December 2020 and 11 May 21, subject: RE: DMR Waiver Extension Endorsements (UNCLASSIFIED)
- d. Narrowband C-SSE and USSPACECOM Terminal Waiver Recommendation - DMR v6.5.2 and 6.5.2.1, 13 May 21 (Narrowband C-SSE) and 19 May 21 (USSPACECOM)
- e. Narrowband C-SSE and USSPACECOM Terminal Waiver Recommendation - DMR v6.5.4, 13 May 21 (Narrowband C-SSE) and 19 May 21 (USSPACECOM)

2. Waiver determination:

a. The Navy requested (Reference (a) and (b)) two-year waivers for the Digital Modular Radio (DMR) versions 6.5.2, 6.5.2.1, and 6.5.4. (Each for the TallaCom AM-7584 and Milpower AM-7584B power amplifiers). Joint Interoperability Test Command (JITC) identified sixteen (16) deviations during MIL-STD conformance testing. However, all deviations were categorized as "Minor" deviations.

b. In line with recommendations from the Legacy SATCOM Systems Expert (SSE), Narrowband Consolidated SSE (C-SSE), and USSPACECOM (References (c), (d), and (e)); the Joint Staff grants a waiver through 24 November 2023 for the DMR versions 6.5.2, 6.5.2.1, and 6.5.4 (with TallaCom AM-7584 or Milpower AM-7584B power amplifiers) with the following contingencies for the Navy to:

- Ensure all DMR terminal operators are informed of the terminal deficiencies and procedures to prevent issues with EIRP, ACE, BER, SFOW, UFOW, and DFWO
- Apprise DMR users remediation actions should an issue manifest
- Ensure RSSC planners adhere to the attached DMR Planning Guidelines regarding the 5-kHz Sale Channel End Time Chip deficiency, and Forward Orderwire Monitoring deficiency
- Provide semi-annual updates on the progress of the DMR terminal upgrade to software version 6.5.5 as well as MUOS capability.

3. Disclaimer. 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 UHF 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 UHF 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.

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