



**THE JOINT STAFF  
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25 November 2013

MEMORANDUM FOR DEPARTMENT OF THE NAVY

Attention: Program Manager, Naval Air Systems Command, Air  
Combat Electronics (PMA-209) (POC: Mr. Jeffrey  
Harmon, PMA-209C3, Deputy IPTL for Development)

Subject: INTEGRATED WAVEFORM CERTIFICATION WAIVER FOR AN/ARC-210  
RT-1939(C) AND AN/ARC-210 RT-1990(C)

1. References:

- a. Recommendation for Time Division Multiple Access (TDMA) Waiver for AN/ARC-210 with RT-1939(C) or AN/ARC-210 RT-1990(C) Transceivers, USSTRATCOM/J66, 21 Nov 13.
- b. AN/ARC-210 RT-1939(C) and AN/ARC-210 RT-1990(C) Integrated Waveform Certification (Waiver) Recommendation, Ultra-high Frequency (UHF) Consolidated SATCOM Systems Expert (C-SSE) Office, 24 Jul 13.
- c. Request for Joint Interoperability Test Command Certification Waiver, AN/ARC-210 RT-1939A(C) and AN/ARC-210 RT-1990(C) Integrated Waveform, Naval Air Systems Command, 28 Jun 13.
- d. Joint Interoperability Test Command Assessment 13-39031.26-10342, Defense Information Systems Agency, 3 Jan 10.
- e. CJCSI 6251.01D, 30 November 12.

2. Waiver determination. Reference (c) requests a lifetime waiver for the AN/ARC-210 RT-1939A(C) and AN/ARC-210 RT-1990(C). Per reference (e), Joint Staff grants a two-year certification waiver effective the date of this memorandum and expiring on 30 November 2015. Based on current programmatic schedules, this allows sufficient time for the program office to address MIL-STD deficiencies and the SATCOM Interoperability and Standards Committee to review MIL-STD requirements, specifically the 1200-bps Mixed Excitation Linear Prediction requirement.

3. Constraints.

a. System losses (cable loss combined with antenna gain) must exceed 1.78 dB of loss, and

b. Adjacent Channel Emissions must **not** exceed the limitations identified in the Joint Interoperability Test Command Assessment reference (d), Tables 1-2, 1-3, 1-4, and 1-5.

4. 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/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.

5. POC is LCDR Joseph J. Furco, Narrowband SATCOM, [joseph.j.furco4.mil@mail.mil](mailto:joseph.j.furco4.mil@mail.mil), Commercial (703) 697-9903, DSN 227-9903.



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