

THE JOINT STAFF
WASHINGTON, DC



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4 September 2020

MEMORANDUM FOR ROYAL AUSTRALIAN NAVY, NAVY INFORMATION WARFARE
BRANCH

Attention: Point of Contact, Mr. Daniel Bahnean, +61 (0)2 6144
1897, Daniel.bahnean@defence.gov.au

Subject: WAIVER RECOMMENDATION: ViaSat RT-1829 Network Terminal
(NT)

1. References:

a. Royal Australian Navy, REQUEST FOR WAIVER - RT-1829 Network
Terminal, 28 February 2020

b. Joint Interoperability Test Command (JITC) Assessment 2018-
39026.32-18015, Ultra High Frequency (UHF) Satellite
Communications (SATCOM) Standards Conformance Assessment of the
ViaSat RT-1829 System, 19 September 2018

c. Correspondence Email, COMNAVNETWARCOM VA, Mr. Cipriano
Deluna, 17 June 2020, subject: SEA 1442 Waiver

d. UNITED STATES SPACE AND MISSILE DEFENSE COMMAND, Terminal
Waiver Request - VIASAT RT-1829 (Australia) (FOR MIL-STD-188-
182A, 183, 181B, 181C, 182B, and 183B), 1 September 2020

e. Correspondence Email, USSPACECOM/J36, Mr. James Conway, 2
September 2020, subject: SEA 1442 (RT-1829) AUS Waiver

2. Waiver determination:

a. Reference (a) requests a waiver for the ViaSat RT-1829 NT for
some minor non-compliance results.

b. Per Reference (b), JITC assessed the terminal against MIL-
STD-188-182A, 183, 181B, 181C, 182B, and 183B.

The assessment identified twenty-eight (28) deviations from
applicable MIL-STDs. Ten (10) of these deviations focused on
Mixed Excitation Linear Prediction (MELP), which the RT-1829 was
not designed to support. Remaining deviations were with respect
to Effective Isotropically Radiated Power (EIRP). The RT-1829

NT VPA-100 has an adjustable power output which may be used to reduce the overall EIRP.

Taking this into consideration, the Joint Staff grants a Three-year waiver contingent on the Royal Australian Navy implementing procedures and training to avoid any issues with EIRP and providing Plan of Actions & Milestones (POA&M) within six-months to Joint Staff to show a path and commitment to MIL-STD MELP conformity to support coalition interoperability with United States Department of Defense.

Failure to provide POA&M within this timeframe may result in rescission of this waiver.

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, DSN 225-9875.



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