

U.S. Department of  
Homeland Security

United States  
Coast Guard



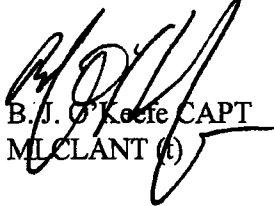
Commander  
Maintenance and Logistics Command  
Atlantic

300 East Main Street, Suite 700  
Norfolk, VA 23510-9103  
Staff Symbol: (tp-1)  
Phone: (757) 628-4051  
Fax: (757) 628-4035  
E-mail: Ernestine.N.Cook@uscg.mil

2241  
05.0381

OCT 28 2005

## MEMORANDUM

From:  B. J. O'Keefe CAPT  
MLCLANT (c)

Reply to: (tp-1)  
Attn of: Ernestine Cook  
(757) 628-4051

To: CGC MATAGORDA (WPB 1303)

Subj: VISUAL TEMPEST INSPECTION OF USCGC MATAGORDA (WPB 1303)

Ref: (a) DON IA PUB 5239-31 Information Assurance Shipboard Red/Black Installation  
Publication  
(b) NSTISSAM TEMPEST 2-95 Red/Black Installation Guidance

1. Mr. Timothy Neary of ESU Miami conducted an inspection of the Secure Electrical Information Processing System (SEIPS) onboard CGC MATAGORDA on 3 August 2005. The inspection was conducted as required by references (a) and (b). A summary of corrected discrepancies is listed in enclosure (1). No new discrepancies were found.

2. This summary provides a record of the installation at the time of inspection. Modifications or changes to the SEIPS shall not be made without approval of TISCOM (isd-3b) or MLCA. This summary and amendments to this summary shall be retained in the unit's SEIPS TEMPEST documentation file.

#

Enclosure: (1) Visual TEMPEST Inspection Report

Copy: LANTAREA  
TISCOM (isd-3b)  
ESU Miami  
ESD Key West

ENCLOSURES(3)

Visual TEMPEST Inspection Summary

USCGC MATAGORDA (WPB 1303)  
3 August 2005

---

This Visual TEMPEST Inspection is for the FTA Visit

The entire Secure Electrical Information Processing System was inspected.

List of spaces with secure processing equipment inspected by the visual TEMPEST inspector:

1. Electronic space
2. Bridge

Discrepancy form legend:

Column A: Sequential discrepancy number

Column B:

- SF Correction of the discrepancy is within the capability of ship's force.
- IAC Correction of the discrepancy was completed by ships force prior to completion of inspection visit.
- IA Indicates that the assistance of an industrial activity is probably required to properly correct the discrepancy.
- IAC Indicates that an industrial activity corrected the discrepancy.
- SA Indicates that the assistance of a support activity is probably required to properly correct the discrepancy.
- SAC Indicates that a support activity corrected the discrepancy.
- CA Indicates that the Contractor Activity is probably required to properly correct the discrepancy.

Column C: Reference of the paragraph in designated manuals to which the installation does not conform.

Narrative: A brief description of the discrepancy found.

Enclosure (1)

## Discrepancies and Corrective Action Report

### 1. Electronic Space:

A	B	C	Narrative
01	CA	NSTISSAM TEMPEST 2/95 PG 27 Para 2a/pg16 para 5 IA Pub 5239-31 A.1.1.1 a, b	Cabinet 3: Black RF transmitter (RT-1794) in same rack as Red Processors. Recommend moving 3 meters away or in adjacent Black Equipment Room. Recommend placing entire ARC-210 system on Bridge. Waived.
02	CA	NSTISSAM TEMPEST 2/95 PG 27 Para 2b	Cabinet 3: Red processor less than one meter from power line to black transmitter (RT-1794 p/o ARC-210). Waived.
03	CA	NSTISSAM TEMPEST 2/95 pg 27 Para 2a	Cabinet 3: Red processor less than one meter away from black signal lines connected to RF transmitter (RT-1794). Waived.
04	CA	NSTISSAM TEMPEST 2/95 pg 27 Para 4, Para 4.4.1.1, 4.1.1.2  IA PUB 5239-31 Para A.1.7.1  IA PUB 5239-31  MIL-STD 188- 124B Para 5.2.12	<p>Signal cable used with RED processors, BLACK processors, ISDN telephones are not terminated. Red data cables for RED LAN have aluminum/mylar shielding. Manufacturer data: DRAKA COMTEQ (F) ShipLan Cable 4PR 24 AWG Screened 307650. Subject cable may pose a TEMPEST hazard.</p> <p>B.1.2.5 (5239): Approved cables. Mil-C-17 (ref k), or MIL-C-915 (reference(l)), MIL-C-24640(reference(n)) or MIL-C-24643 (reference (o)). Researched cable and found that it does NOT meet any of the above MIL-SPECs. Draka sells data cables that are MIL-DTL-24643 compliant. Subject cables are CAT 5e Shiplan '59W', '59' and '59S' Marine data cables. The cables listed all have a braided shield in addition to the aluminum mylar tape. The braided shield allows for a flexible ground.</p> <p>NSTISSAM 2-95: RED processors meeting the requirements of NSTISSAM TEMPEST/1-92 (Levels I, II, or III) must use optical or shielded wire cables if specified as part of the manufacturer's installation specification, or if specified for compliance with TEMPEST certification. Paragraphs 4.4.1.1, and 4.1.1.2 defines cable characteristics and shield termination.</p> <p>IA Pub 5239-31: RED Shielded Metallic Wire Cable. RED metallic wire cables in all locations shall be shielded, with the exception of desktop computer cables that are provided by the manufacturer, where there is not an offered shielded cable option. This requirement is not applicable to RED fiber optic cables.</p> <p>MIL-STD-188 "Foil shields are not acceptable for peripheral bonding and do not provide mechanical durability"</p> <p>IA Pub 5239-31 pg B-9 Para d. Note: "If both ends of the cable will not have the shield taken to ground, approval by the cognizant CTTA should be obtained prior to installation."</p> <p>Other source (AFMAN33-214V2 DATED 21SEP2001) states that foil shielding is intended for voice or digital signals less than 5Kbps. CG must assume risks associated with using subject cable. This is also documented in Instrumented Test Report. Acceptable risk. No discrepancy.</p>

