

U.S. Department of
Homeland Security

United States
Coast Guard



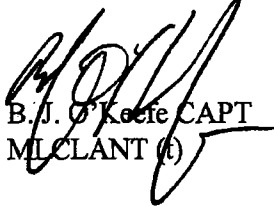
Commander
Maintenance and Logistics Command
Atlantic

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>

05	CA	NSTISSAM TEMPEST 2/95 pg 28 Para 6	RED processors and RF transmitters in Cabinet 3. RED processors should not be powered from the same circuits as RF transmitters. Waived.
06	CA	IA Pub 5239-31 Para B.1.2.6.10	AN/UPX-28 has flexible ground strap with crimped ends. Replace with Class C bond strap. Corrected.
07	CA	IA Pub 5239-31	On racks, install ground cables per IA 5239-31. Where required, use soldered connectors vice crimping. Waived.
08	CA	IA Pub 5259-31	Remove external tooth washers on ground connectors to cabinets. Use lock washers and lug nuts per IA Instruction 5239-31 Figure B-5. Corrected
09	CA	IA Pub 5239 B.1.2.6.12	Keyboard and Monitor in Cabinet #1 has non -manufacturer supplied power cable. Bond shelf to rack. Contends it is manufacturer's cable. Waived.
10	CA	NSTISSAM 2-95 Para 3 Notes 3	RED/BLACK cable separation. Two inch minimum separation requirement. Six inch separation requirement for RED/BLACK cables that run in parallel for 100 ft runs. The only way to ID is via cable tags. Waived.
11	CA	IA Pub 5239-31 Para B.1.2.6.10	Remove flexible ground strap with crimped ends from ANDVT rack and replace with Class C solid. Strap. Corrected.
12	CA	IA Pub 5239-31 Para A.1.1.7.	ARC-210 Secure voice cables. Transmit and receive audio lines need to be shielded. Resolved. See 2. Bridge item #4.
13	CA	NSTISSAM 2-95 Recommendation I Pg 27 Para 3 Notes: 2	Operator position in Classified C4ISR room has cables from two UNCLAS LAN and three CLASSIFIED LAN connections. Require 2 inch (5 cm) separation. Waived.

2. Bridge:

01	CA	NSTISSAM 2-95 Recommendation I Pg 27 Para 3 Notes: 2	LAN (RED) and GPS (BLACK) use common junction box. No RED/BLACK separation. Corrected, moved BLACK LAN and GPS to separate junction boxes. RED LAN is routed in common cable run. Does not have minimum separation. See item #10.
02	CA	IA Pub 5239-31 Para B.1.2.6.13	No metal-to-metal contact for ground strap from ARC 210 Tray to ground on shelf. Recommend use SOLID Class C ground strap vice crimped wire. Corrected.
03	CA	IA Pub 5239-31 A.1.1.7.2a	Not clear if Shielded Twisted Pair is used for voice and control wirelines. SPAWAR will inspect and test during Instrumented TEMPEST test. NOTE: No discrepancy noted by SPAWAR testing. Reference to ARC-210. Informed by Harris Corp that kit provided included shielding of all RED cables. Corrected.
04	CA	IA Pub 5239-31 Para A.1.1.7.2 Pg A-3	Unshielded cable connected to connector J3 on ARC-210 Tray. Twisted red wires (four) runs to ARC-210 Control head mounted in the forward console of the bridge. This is the Control and Status of the ARC-210. All data is by channel/mode/power only, no audio is routed to the Control head. Replace cable run with proper cable. This cable should be shielded. Corrected.

3. Other:

01	CA	NSTISSAM 2-95 Recommendation I Pg 27 Para 3 Notes: 2	CO's cabin. RED and BLACK LAN ports have no cable separation. Recommend 2 inch separation. RED/BLACK cable is tied together. Acceptable risk while underway. No discrepancy.
02	CA	NSTISSAM 2-95 Recommendation I Pg 27 Para 1	CO's cabin. Proposed RED laptop on desk top less than 20 inches (20 cm) from black phone. Acceptable risk while underway. No discrepancy.
03	CA	IA Pub 5239-31 Para A.1.1.7.3.1.b	RED Fiber optic cable goes through space adjacent to black racks that contains hasp for locking. If the cable passes through normally locked spaces (for example, voids, staterooms, etc), that portion of the cable shall be contained in a metallic conduit. This space is the cutters armory and is considered a restricted area. Corrected.

TEMPEST 2/95

Department of the Navy (DoN) Information Assurance (IA) Publication Module 5239-31

MIL-STD-188-124B Grounding Bonding Shielding for Common Long Haul/Tactical Communications Systems

Air Force Manual 33-214, Volume 2, Communications and Information Emission Security Countermeasures Review

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) 628-4226
E-mail: Ernestine.N.Cook@uscg.mil

2241
06.0362

DEC 26 2006

MEMORANDUM

From:  B. J. O'Keefe, CAPT
MLCLANT (t)

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

To: CGC MONHEGAN (WPB 1305)

Subj: VISUAL TEMPEST INSPECTION OF USCGC MONHEGAN (WPB 1305)

Ref: (a) DON IA PUB 5239-31 Information Assurance Shipboard Red/Black Installation
(b) NSTISSAM TEMPEST 2-95A Red/Black Installation Guidance
(c) COMDT COGARD Washington DC//CG-62//042137Z Mar 04

1. Mr. Brian Meetze of ESD Miami Beach, LT Jim Cabase of COMDT (CG-623), and ET2 Michael Harrison of ESD Key West conducted a Visual Tempest Inspection (VTI) of the Secure Electrical Information Processing System (SEIPS) onboard CGC MONHEGAN on 2 November 2006. The inspection was conducted as required by references (a) and (b).

2. A summary of minor discrepancies is listed in enclosure (1). No serious TEMPEST hazards were noted; therefore, you may continue normal operations. In accordance with reference (c), discrepancies must be corrected within 90 days. You should contact Ms. Ernestine Cook to schedule a re-inspection. This summary also 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 MLCLANT.

3. This summary and amendments to this summary shall be retained in the unit's SEIPS TEMPEST documentation file.

#

Enclosure: (1) Visual TEMPEST Inspection Summary

Copy: COMDT (CG-623)
LANTAREA
TISCOM (isd-3b)
ESU Miami
ESD Key West

Visual TEMPEST Inspection Summary

**USCGC MONHEGAN (WPB 1305)
2 November 2006**

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**
- 3. Other**

Discrepancy form legend:

Column A: Sequential discrepancy number

Column B:

Waived	Discrepancies granted a waiver as a result of instrumented testing and per TISCOM ltr of 12 Jul 05.
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.

Discrepancies and Corrective Action Report

1. Electronic Space:

A	B	C	Narrative
01	Waived	NSTISSAM TEMPEST 2/95A 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.
02	Waived	NSTISSAM TEMPEST 2/95A PG 27 Para 2b	Cabinet 3: Red processor less than one meter away from power line to black transmitter (RT-1794 p/o ARC-210).
03	Waived	NSTISSAM TEMPEST 2/95A pg 27 Para 2a	Cabinet 3: Red processor less than one meter away from black signal lines connected to RF transmitter (RT-1794).
04	Waived	NSTISSAM TEMPEST 2/95 pg 28 Para 6	RED processors and RF transmitters in Cabinet 3. RED processors should not be powered from the same circuits as RF transmitters.
05	CA	NSTISSAM 2-95A Para 3 Notes: 3	RED/BLACK cable separation. Two inch minimum separation requirement. Six inch separation requirement for RED/BLACK cables that run in parallel for 100 ft runs. The only way to ID is via cable tags.
06	CA	IA Pub 5239-31 Para A.1.1.7.	ARC-210 and ANDVT Secure voice cables. Transmit and receive audio lines need to be shielded.
07	CA	NSTISSAM 2-95A Recommendation I Pg 27 Para 3 Notes: 2	Operator position in Classified C4ISR room has cables from two UNCLAS LAN and three CLASSIFIED LAN connections. Require 2 inch (5 cm) separation.
08	CA	IA 5239-31 Para A.1.1.7.2.a.	Outer shield missing on KIV-7 db connector.
09	Waived	IA 5239-31 Para B.1.2.6	Cabinet 1: Not grounded properly to ship's hull (i.e. Spring coils do not constitute a Class C bond).
10	Waived	IA 5239-31 Para B.1.2.6	Cabinet 2: Not grounded properly to ship's hull (i.e. Spring coils do not constitute a Class C bond).
11	Waived	IA 5239-31 Para B.1.2.6	Cabinet 3: Not grounded properly to ship's hull (i.e. Spring coils do not constitute a Class C bond).
12	CA	IA 5239-31 Para B.1.2.6	KG-175/TACLANE in Cabinet 3 missing grounding hardware.

2. Bridge:

01	Waived	NSTISSAM 2-95A Recommendation I Pg 27 Para 3 Notes: 2	LAN (RED) cable is routed in conjunction with common cable run. No RED/BLACK separation.
02	CA	IA 5239-31 Para B.1.2.6	Starboard KITE 1: Replace ground wire with Class C bonding.
03	CA	NSTISSAM 2-95A Pg 30 Para 4.4.1	Starboard KITE 1: Cable shielding not grounded at connector (J1).
04	CA	NSTISSAM 2-95A Pg 30 Para 4.4.1	Port KITE 2: Cable shielding not grounded at connector (J1).
05	CA	NSTISSAM 2-95A Recommendation I	Starboard KITE 1: Missing 3 meter separation between RF transmitter and Red processor.
06	CA	NSTISSAM 2-95A Recommendation I	Port KITE 2: Missing 3 meter separation between RF transmitter and Red processor.

3. Other:

01	Waived	NSTISSAM 2-95A Recommendation I Pg 27 Para 3 Notes: 2	CO's and XO's cabin. RED cables of associated LAN drops are routed through a common cable run (i.e. black signal and power lines). Recommend 2 inch separation.
----	--------	--	---

NSTISSAM TEMPEST 2/95A

Department of the Navy (DoN) Information Assurance (IA) Publication Module 5239-31

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.mill

2241
05.0380

OCT 14 2005

MEMORANDUM

From:  B. J. O'Keefe CAPT
MLCLANT (t)

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

To: CGC METOMPKIN (WPB 1325)

Subj: VISUAL TEMPEST INSPECTION SUMMARY OF USCGC METOMPKIN
(WPB 1325)

Ref: (a) DON IA PUB 5239-31 Information Assurance Shipboard Red/Black Installation
Publication
(b) NSTISSAM TEMPEST 2-95 Red/Black Installation Guidance
(c) TISCOM (isd-3b) Memo 2241 of 12 Jul 05
(d) COMDT COGARD Washington DC//CG-62//042137Z Mar 04

1. Mr. Timothy Neary of ESU Miami conducted an inspection of the Secure Electrical Information Processing System (SEIPS) onboard CGC METOMPKIN on 4 August 2005. The inspection was conducted as required by references (a) and (b). Reference (c) cites waivers that have been given and will not be reported. A summary of a minor discrepancy is listed in enclosure (1).

2. No serious TEMPEST hazards were noted; therefore you may continue normal operations. In accordance with reference (d), discrepancies must be corrected within 90 days. You should contact Ms. Ernestine Cook to schedule a re-inspection. This summary also 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.

3. 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

Visual TEMPEST Inspection Summary

USCGC METOMPKIN

4 August 2005

The entire Secure Electrical Information Processing System was inspected.

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

1. CIC
2. Radio

Discrepancy form legend:

Column A: Sequential discrepancy number

Column B:

SF Correction of the discrepancy is within the capability of ship's force.

SFC 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.

Column C: Document Reference to which the installation does not conform.

Narrative: A brief description of the discrepancy found.

ENCLOSURE (1)

Discrepancies and Corrective Action Report

1. CIC:

A	B	C	Narrative
001	SA	IA Pub 5239-31 Para A.1.1.7.3.1.b	RED fiber optic passes through armory, which has a solid metal door. If the cable passes through locked spaces, it shall be contained in PDS. The TISCOM compromise, a mesh door to permit physical inspection, is scheduled to be installed during the next shipyard period.

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

2241
05.0043

SEP 13 2005

MEMORANDUM

From:  B. J. Keefe CAPT
MLCLANT (A)

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

To: CGC NUNIVAK (WPB 1306)

Subj: VISUAL TEMPEST INSPECTION SUMMARY FOR USCGC NUNIVAK
(WPB 1306)

Ref: (a) NSTISSAM 2-95 Red/Black Installation Guidance
(b) DON IA PUB 5239-31 Information Assurance Shipboard Red/Black Installation
Publication
(c) COMDT COGARD Washington DC//CG-62//042137Z Mar 04

1. ET2 Timothy Cole of ESD New Orleans conducted an inspection of the Secure Electrical Information Processing System (SEIPS) on CGC NUNIVAK on 7 January 2005. The inspection was conducted as required by references (a) and (b).
2. Enclosure (1) is a summary of minor discrepancies with the SEIPS. No serious TEMPEST hazards were noted; therefore, you may continue normal operations. In accordance with reference (c), discrepancies must be corrected within 90 days. You should contact Ms. Ernestine Cook to schedule a re-inspection. This summary also provides a record of the installation at the time of the inspection. Modifications or changes to the SEIPS shall not be made without the approval of TISCOM (isd-3b) or MLCA.

**Subj: VISUAL TEMPEST INSPECTION SUMMARY
FOR USCGC NUNIVAK (WPB 1306)**

2241

SEP 13 2005

3. This summary and amendments to this summary shall be retained in the unit's SEIPS (TEMPEST) documentation file.

#

**Enclosures: (1) Visual Tempest Inspection Summary
(2) TISCOM (isd-3b) Memo 2241 of 12 Jul 05**

**Copy: COMDT (CG-6, G-DPM-3)
LANTAREA
TISCOM (isd-3b)
ESU New Orleans
ESD New Orleans
ESU Miami
ESD Key West**

Visual TEMPEST Inspection Summary

The entire Secure Electrical Information Processing System was inspected.

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

1. Radio Room
2. State Rooms
3. Bridge

Discrepancy form legend:

Column A: Sequential discrepancy number

Column B:

- SF Correction of the discrepancy is within the capability of ship's force.
- SFC 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 a Contractor activity is required to correct the discrepancy.

Column C: Document Reference to which the installation does not conform.

Narrative: A brief description of the discrepancy found.

Enclosure (1)

Discrepancies and Corrective Action Report

1. Radio Room 2-28-O-Q

A	B	C	Narrative
001	IA/SA	IA PUB 5239-31 Paragraph A.1.1.2	The printer (red) uses black power. The printer router (red) uses black power. Recommend plugging printer into UPS.
002	*Waived	NSTISSAM 2-95 Rec I Paragraph 6	There is no 3meter separation between printer (red) and IFF transmitter. Transmitter is enclosed in metal case. Prototype passed RED LAN instrumented test. WAIVED
003	*Waived	NSTISSAM 2-95 Rec I Paragraph 6	In Rack #3, there is no 3meter separation between red and black cables before entering the Marcom switch. Tested and evaluated by SPAWAR previously. WAIVED
004	*Waived	NSTISSAM 2-95 Rec I Paragraph 6	In Rack #3, there is no 3meter separation between cryptographic equipment and RT9000 transceiver. Tested and evaluated by SPAWAR. WAIVED
005	CA	IA PUB 5239-31 Paragraph A.1.1.7.3.1.B	There is not a secure Protected Distribution System (PDS) leaving Radio Room. LE Locker behind Secure Space. Item to be corrected by Contractor. LE locker will have full length locking cage to allow viewing of the subject cables.

Note: Separation of IFF antenna line and Class LAN line may be part of an upcoming GROOM

* Per TISCOM (isd-3b) ltr of 12 Jul 05

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
05.0382

OCT 27 2005

MEMORANDUM

From: 
B. J. O'Keefe CAPT
MLCLANT (t)

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

To: USCGC ATTU (WPB 1317)

Subj: VISUAL TEMPEST INSPECTION SUMMARY OF USCGC ATTU (WPB 1317)

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 a visual TEMPEST inspection of the Secure Electrical Information Processing System (SEIPS) onboard CGC ATTU 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 Summary

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

Visual TEMPEST Inspection Summary

USCGC ATTU (WPB 1317)
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 away 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>

05	CA	NSTISSAM TEMPEST 2/95 pg 28 Para 6	RED processors and RF transmitters in Cabinet 3. RED processors should not be powered from the same circuits as RF transmitters. Waived.
06	CA	IA Pub 5239-31 Para B.1.2.6.10	AN/UPX-28 has flexible ground strap with crimped ends. Replace with Class C bond strap. Corrected.
07	CA	IA Pub 5239-31	On racks, install ground cables per IA 5239-31. Where required, use soldered connectors vice crimping. Waived.
08	CA	IA Pub 5259-31	Remove external tooth washers on ground connectors to cabinets. Use lock washers and lug nuts per IA Instruction 5239-31 Figure B-5. Corrected
09	CA	IA Pub 5239 B.1.2.6.12	Keyboard and Monitor in Cabinet #1 has non-manufacturer supplied power cable. Bond shelf to rack. Contends it is manufacturer's cable. Waived.
10	CA	NSTISSAM 2-95 Para 3 Notes 3	RED/BLACK cable separation. Two inch minimum separation requirement. Six inch separation requirement for RED/BLACK cables that run in parallel for 100 ft runs. The only way to ID is via cable tags. Waived.
11	CA	IA Pub 5239-31 Para B.1.2.6.10	Remove flexible ground strap with crimped ends from ANDVT rack and replace with Class C solid. Strap. Corrected.
12	CA	IA Pub 5239-31 Para A.1.1.7.	ARC-210 Secure voice cables. Transmit and receive audio lines need to be shielded. Resolved. See 2. Bridge item #4.
13	CA	NSTISSAM 2-95 Recommendation I Pg 27 Para 3 Notes: 2	Operator position in Classified C4ISR room has cables from two UNCLAS LAN and three CLASSIFIED LAN connections. Require 2 inch (5 cm) separation. Waived.

2. Bridge:

01	CA	NSTISSAM 2-95 Recommendation I Pg 27 Para 3 Notes: 2	LAN (RED) and GPS (BLACK) use common junction box. No RED/BLACK separation. Corrected, moved BLACK LAN and GPS to separate junction boxes. RED LAN is routed in common cable run. Does not have minimum separation. See item #10.
02	CA	IA Pub 5239-31 Para B.1.2.6.13	No metal-to-metal contact for ground strap from ARC 210 Tray to ground on shelf. Recommend use SOLID Class C ground strap vice crimped wire. Corrected.
03	CA	IA Pub 5239-31 A.1.1.7.2a	Not clear if Shielded Twisted Pair is used for voice and control wirelines. SPAWAR will inspect and test during Instrumented TEMPEST test. NOTE: No discrepancy noted by SPAWAR testing. Reference to ARC-210. Informed by Harris Corp that kit provided included shielding of all RED cables. Corrected.
04	CA	IA Pub 5239-31 Para A.1.1.7.2 Pg A-3	Unshielded cable connected to connector J3 on ARC-210 Tray. Twisted red wires (four) runs to ARC-210 Control head mounted in the forward console of the bridge. This is the Control and Status of the ARC-210. All data is by channel/mode/power only, no audio is routed to the Control head. Replace cable run with proper cable. This cable should be shielded. Corrected.

3. Other:

01	CA	NSTISSAM 2-95 Recommendation I Pg 27 Para 3 Notes: 2	CO's cabin. RED and BLACK LAN ports have no cable separation. Recommend 2 inch separation. RED/BLACK cable is tied together. Acceptable risk while underway. No discrepancy.
02	CA	NSTISSAM 2-95 Recommendation I Pg 27 Para 1	CO's cabin. Proposed RED laptop on desk top less than 20 inches (20 cm) from black phone. Acceptable risk while underway. No discrepancy.
03	CA	IA Pub 5239-31 Para A.1.1.7.3.1.b	RED Fiber optic cable goes through space adjacent to black racks that contains hasp for locking. If the cable passes through normally locked spaces (for example, voids, staterooms, etc), that portion of the cable shall be contained in a metallic conduit. This space is the cutters armory and is considered a restricted area. Corrected.

TEMPEST 2/95

Department of the Navy (DoN) Information Assurance (IA) Publication Module 5239-31

MIL-STD-188-124B Grounding Bonding Shielding for Common Long Haul/Tactical Communications Systems

Air Force Manual 33-214, Volume 2, Communications and Information Emission Security Countermeasures Review

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

2241
05.0098

SEP 13 2005

MEMORANDUM

From:  B. J. O'Keefe CAPT
MLCLANT (t)

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

To: USCGC VASHON (WPB 1308)

Subj: VISUAL TEMPEST INSPECTION SUMMARY OF USCGC VASHON (WPB 1308)

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

1. ETC David Cooper and ET2 James Bennett of ESD New Orleans conducted an inspection of the Secure Electrical Information Processing System (SEIPS) onboard CGC VASHON on 17 March 2005. The inspection was conducted as required by references (a) and (b). A list of discrepancies is noted in enclosure (1).
2. This summary provides a record of the installation at the time of inspection. Enclosure (2) provides the basis for waiver statements in enclosure (1). Modifications or changes to the SEIPS shall not be made without the approval of TISCOM (isd-3d) or MLCA.
3. This summary shall be retained in the unit's SEIPS (TEMPEST) documentation file.

#

Enclosures: (1) Visual Tempest Inspection Report
(2) TISCOM (isd-3b) Memo 2241 of 12 Jul 05

Copy: COMDT (CG-6, G-DPM-3)
LANTAREA
TISCOM (isd-3b)
ESU New Orleans
ESD New Orleans

Visual TEMPEST Inspection Summary

The entire Secure Electrical Information Processing System was inspected.

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

1. Radio Room
2. State Rooms
3. Bridge

Discrepancy form legend:

Column A: Sequential discrepancy number

Column B:

SF Correction of the discrepancy is within the capability of ship's force.

SFC 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.

Column C: Document Reference to which the installation does not conform.

Narrative: A brief description of the discrepancy found.

ENCLOSURE (1)

Discrepancies and Corrective Action Report

1. Radio Room 2-29-2-Q

A	B	C	Narrative
001	WAIVED	NSTISSAM 2-95 Rec I Paragraph 1.A	The printer (red) is closer than 1 M to black IFF power lines. Waived as result of Instrumented Test on prototype.
002	WAIVED	NSTISSAM 2-95 Rec I Paragraph 2.A	The printer (red) along with Classified LAN line runs parallel with IFF transmitter antenna line. There is no separation of these lines. Waived as result of Instrumented Test on prototype.
003	WAIVED	NSTISSAM 2-95 Rec I Paragraph 6	There is no 3-meter separation between printer (red) and IFF transmitter. Waived as result of Instrumented Test and IFF metal enclosure.

2. State Rooms 1-16-1-L/1-16-2-L

A	B	C	Narrative
001	WAIVED	NSTISSAM 2-95 Rec I Paragraph 2.A Note 2	RED LAN Line is in same distribution panel with RF transmission lines. Waived as result of Instrumented Test on prototype.

3. Bridge

A	B	C	Narrative
001	WAIVED	NSTISSAM 2-95 Rec I Paragraph 2.A Note 2	RED LAN Line is in same distribution panel with RF transmission lines. Waived as result of Instrumented Test on prototype.

U.S. Department of
Homeland Security
United States
Coast Guard



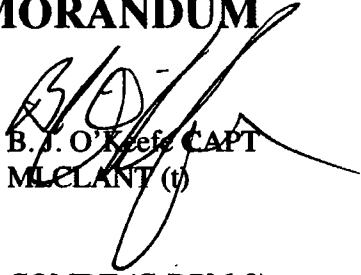
Commander
Maintenance and Logistics Command
Atlantic

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
06.0042

MAR -2 2006

MEMORANDUM

From:  B. J. O'Keefe CAPT
MLCLANT (t)

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

To: COMDT (G-DPM-3)

Subj: VISUAL TEMPEST INSPECTION FOR USCGC MANITOU (WPB 1302)

Ref: (a) NSTISSAM TEMPEST 2-95 Red/Black Installation Guidance
(b) DON IA PUB 5239-31 Shipboard Red/Black Installation
(c) COMDT COGARD Washington DC 042137Z Mar 04

1. ITC Kevin Priddy and ELC2 David Beaver of ESU St. Louis conducted a Visual TEMPEST Inspection (VTI) of the Secure Electrical Information Processing System (SEIPS) onboard CGC MANITOU on 23 January 2006. The inspection was conducted as required by references (a) and (b). A summary of minor discrepancies is listed in enclosure (1).

2. No serious TEMPEST hazards were noted; therefore you may continue normal operations. In accordance with reference (c), discrepancies must be corrected within 90 days. You should contact Ms. Ernestine Cook to schedule a re-inspection. This summary also provides a record of the installation at the time of inspection. Modifications or changes to the SEIPS shall not be made without the approval of TISCOM (isd-3b) or MLCA.

3. This summary and amendments to this summary shall be retained in the cutter's SEIPS TEMPEST documentation file.

#

Enclosure: (1) Visual TEMPEST Inspection Summary

Copy: COMDT (CG-6)
TISCOM (isd-3b)
LANTAREA
ESU St. Louis
ESU New Orleans
ESU Miami
CGC MANITOU

Visual TEMPEST Inspection Summary

CGC MANITOU

The Secure Electrical Information Processing System was inspected.

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

1. Radio Room (Secure space)
2. State Rooms (Port & Starboard)
3. Bridge

Discrepancy form legend:

Column A: Sequential discrepancy number

Column B:

SF Correction of the discrepancy is within the capability of ship's force.

SFC 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 a Contractor activity is required to correct the discrepancy.

Column C: Document Reference to which the installation does not conform.

Narrative: A brief description of the discrepancy found.

Enclosure (1)

Discrepancies and Corrective Action Report

1. Radio Room (Secure Space) 2-29-2-Q:

A	B	C	Narrative
001	WAIVED	NSTISSAM 2-95 Rec I Paragraph 1.A	Red printer less than 1M separation from IFF transmitter.
002	CA	NSTISSAM 2-95 Rec I Paragraph 2.A Note 2	Classified LAN in same wire bundle as black signal cables.
003	IAC	NSTISSAM 2-95 Paragraph 4.9.6	Commercial Television cable entering a secure space requires use of an amplifier/attenuator at the entry point of the space to provide one way filtering of electronic signals. Corrected. Filter is in rack.
004	WAIVED	NSTISSAM 2-95 Rec I Paragraph 2.A	The printer (red) along with Classified LAN line runs parallel with IFF antenna line. There is no separation of these lines.
005	WAIVED	NSTISSAM 2-95 Rec I Paragraph 1.B	There is no 1 meter separation between printer (red) and IFF transmitter RF cable.
006	WAIVED	NSTISSAM 2-95 Rec I Paragraph 1.B	There is no 1 meter separation between printer (red) and IFF transmitter black power line.

2. State Rooms 1-16-1-L/1-16-2-L:

001	CA	NSTISSAM 2-95 Rec I Paragraph 2.A Note 2	Classified LAN lines are run with BLACK wire lines (no 5 centimeter separation).
002	CA	NSTISSAM 2-95 Rec I Paragraph 2.B Note 2	Classified LAN lines are run with 120VAC power lines (no separation).
003	CA	NSTISSAM 2-95 Rec I Paragraph 2.A	Class LAN box located adjacent to BLACK LAN box.

3. Bridge 03-14-01:

001	CA	NSTISSAM 2-95 Rec I Paragraph 1. A & B	RED processor less than 1 meter from BLACK power lines and BLACK equipment. KITE-1 handset (2 each) physically cannot separate the lines. KITE-1 is an integrated remote hand set for RED and BLACK equipment.
002	CA	NSTISSAM 2-95 Rec I Paragraph 1. A	Less than 1 meter of separation between RED processor and BLACK equipment on STBD side.
003	CA	NSTISSAM 2-95 Rec I Paragraph 1. B	Less than 1 meter of separation between RED processor and BLACK wire lines on STBD side.
004	CA	NSTISSAM 2-95 Rec I Paragraph 1.A	Less than 1 meter of separation between RED processor and BLACK power on STBD side.
005	CA	NSTISSAM 2-95 Rec I Paragraph 2. B	Less than 5 centimeters of separation between RED wire line and BLACK wire line on STBD side.