

DATA ITEM DESCRIPTION

Title: HEMP PROTECTION SUBSYSTEM PERFORMANCE TEST REPORT

Number: DI-EMCS-82014

Approval Date: 20160404

AMSC Number: 9608

Limitation: N/A

DTIC Applicable: Yes

GIDEP Applicable: N/A

<http://www.dtic.mil/dtic/submit/>

Office of Primary Responsibility: DTRA-DS

Applicable Forms: None

Use/Relationship: The HEMP Protection Subsystem Performance Test Report describes the tests, analyses, and inspections used by the contractor and documents the results, verifying compliance with the HEMP interface and performance requirements of a ship during the engineering development phase. The Report provides the means for the government to evaluate HEMP protection performance results.

1. This DID contains the format, content, and intended use information for the data product resulting from the work task described in sections Section 5 and Appendix C of MIL-STD-4023.
2. This DID is related to DI-EMCS-82013.

Requirements:

1. Reference documents. The applicable issue of the documents cited herein, including their approval dates and any applicable amendments, notices, or revisions shall be as cited in the ASSIST Online at the time of the solicitation, or for non-ASSIST documents, as stated herein. The HEMP Protection Subsystem Performance Test Report classification shall be determined using DTRA Security Classification Guide for DoD Electromagnetic Pulse (EMP) Programs and Activities (U) available by mail request to ATTN: J9/NT-NTSA Rooney M., Defense Threat Reduction Agency, 8725 John J. Kingman Road, MSC 6201 Fort Belvoir, Virginia 22060-6201; and any relevant system specific classification guides.
2. Format. The Report shall be in contractor format.
3. Content. The Report shall describe the overall test results for Electromagnetic Barrier Point-Of-Entry Testing for each requirement specified in the contract for the ship being developed (see MIL-STD-4023 section 5 and Appendix C).
 - 3.1 Summary information. This report shall summarize the following:
 - 3.1.1 Introduction.
 - a. System description including any pertinent test issues.

DI-EMCS-82014

- b. Statement of any assumptions and limitations associated with HEMP protection performance testing.
- c. General objectives.

3.1.2 Scope. A general description of the results shall be provided for testing of each interface and performance requirement area listed in section 3.2 below.

- a. Synopsis of HEMP Protective Elements test procedures and references to detailed procedures.
- b. Successes and failures.
- c. Impacts of failures.
- d. Recommendations to resolve failures.
- e. Lessons learned.

3.2 Detailed information. For HEMP Protective Elements testing, a single test report shall be prepared. The test report shall contain the following information:

- a. Ship or equipment identification (including hull number for production ship) and a reference to applicable test plans and procedures.
- b. When and where tests were conducted.
- c. Test participants.
- d. A discussion of any deviations from the test plans or requirements of MIL-STD-4023, Section 5 and Appendix C.
- e. Copies of measured test results including all raw and processed test oscillographic waveform test data in engineering units. The electronic data format will be described in the written test report and delivered to the government.
- f. Summary tables of measured quantities shall be provided including comparisons to pass/fail criteria based on NORM attributes of each oscillographic waveform.
- g. Test chronology including sequence of events; findings from investigations into causes of failures, if any; and corrective actions and retest results.

3.2.1 Analysis section. Post-test analysis of HEMP Protective Elements test data, including calculations of threat responses from nonlinear Penetration Protection Devices (PPDs), if applicable; analysis of test adequacy; and development of hardness conclusions. Post-test analysis will include development of a corrective plan and, if applicable, the Hardness Allocation Report (DI-EMCS-82012) will be updated.

End of DI-EMCS-82014