

DATA ITEM DESCRIPTION

Title: TEST PLAN FOR PRODUCTION-LEVEL MISSION CRITICAL SUBSYSTEM (MCS) IMMUNITY TEST (PMIT)

Number: DI-EMCS-81848

Approval Date: 20111128

AMSC Number: 9228

Limitation: N/A

DTIC Applicable: Yes

GIDEP Applicable: N/A

Defense Technical Information Center

Attn: DTIC-OMI

8725 John J. Kingman Road, Ste 0944

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Office of Primary Responsibility: DS

Applicable Forms: None

Use/relationship: The Test Plan for Production-level Mission Critical Subsystem (MCS) ImmunityTest (PMIT) will be used to perform the PMIT described in detail in Appendix C of MIL-STD-3023. Information to be acquired through the test plan for the PMIT will include the detailed test procedures, equipment and other related data.

This DID contains the format, content, and intended use information for the data product resulting from the work task described by Appendix C of MIL-STD-3023, and is applicable to the acquisition of military systems, equipment, and facilities.

Requirements:

1. Reference documents. The applicable issue of the documents cited herein, including their approval dates and dates of any applicable amendments, notices, and revisions, shall be as cited in the ASSIST Online (<https://assist.daps.dla.mil/online/start/>) at the time of the solicitation; or for non-ASSIST listed documents, as stated herein. Classification of the Test Plan for MIL-STD-3023 PMIT shall be determined using DNA-EMP-1, Electromagnetic Pulse (EMP) Security Classification Guide (U) available by mail request to ATTN: RD-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 Test Plan for PMIT shall be in contractor format.

3. Content. The Test Report for MIL-STD-3023 PMIT shall be presented in the format of the test plan, which is recommended in Appendix C, paragraph C.5.6 of MIL-STD-3023 and is specified in the contract.

3.1 Administrative data. The Test Plan for MIL-STD-3023 PMIT shall contain an administrative section covering the following:

- a. Contract number.
- b. Authentication and certification of a qualified representative of the procuring activity for the test plan.

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3.2 Test Procedures and Equipment

3.2.1 Introduction Section. This section shall contain a brief overview of the PMIT.

3.2.2 Test Equipment Description Section. This section shall contain at a minimum: a table summarizing the test equipment providing manufacturers and part numbers.

3.2.3 PMIT Procedure Section. This section shall contain a detailed discussion of the test procedures and at a minimum include the following information:

a. A description of the PMIT pulser and its calibration into a 100-ohm load to demonstrate a 10-A capability. If the pulser does not have a 10-A current limit capability, then a description of how the injected current will be monitored is required along with a description of how not to exceed 10-A.

b. A description of the MCS test points. (This DID must be prepared for each aircraft MCS.) These test points should be consistent with the MIL-STD-461 CS116 (or equivalent) immunity test points (see DI-EMCS-81853 for a description of that test). That is, every port on the MCS and its associated cabling is to be tested.

c. Test chronology including the sequence of events.

d. A description of the MCS condition (e.g., power-on and other equipment connected to the MCS) and the test points used for the PMIT.

e. A description of how the MCS is to be determined not to be damaged by the PMIT (i.e., operated normally when powered on after the PMIT) and the criteria for determining normal operation. (A full operational test of the MCS is not required.) Note damage is a critical characteristic when applying the results of this PMIT test procedure to MIL-STD-1916.

4. End of DI-EMCS-81848.