DATA ITEM DESCRIPTION

Form Approved
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Public reporting for this collection of information is estimated to average 110 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the office of Management and Budget, Paperwork Reduction Project(0704-0188), Washington, DC 20503.

1. TITLE	2. IDENTIFICATION NUMBER
ELECTROMAGNETIC INTERFERENCE TEST REPORT (EMITR)	DI-EMCS-80200A

3. DESCRIPTION / PURPOSE

3.1 This EMITR provides the data and information necessary to evaluate an equipment or subsystem compliance with its contractual Electromagnetic Interference (EMI) Control requirements based on MIL-STD-461, including the discussion of recommended corrective actions, if needed.

4. APPROVAL DATE (YYMMDD)	5. OFFICE OF PRIMARY RESPONSIBILITY	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE
930111	EC		

7. APPLICATION / INTERRELATIONSHIP

7.1 This Data Item Description (DID) contains the format and content preparation instructions for the EMITR required by 5.1 of MIL-STD-461.

7.2 This DID is applicable when an electronic, electrical, or electromechanical equipment and subsystem is required to comply with contractual EMI requirements based on MIL-STD-461.

7.3 This DID supersedes DI-EMCS-80200.

APPROVAL LIMITATION	9a. APPLICABLE FORMS	9b. AMSC NUMBER
		N6854

10. PREPARATION INSTRUCTIONS

10.1 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 specified in the contract.

10.2 Format. The EMITR format shall be contractor selected. Unless effective presentation would be degraded, the initially used format arrangement shall be used for all subsequent submissions.

10.3 Content. The EMITR shall contain the following:

10.3.1 Administrative data. The EMITR shall contain an administrative section covering the following:

a. Contract number.
b. Authentication and certification of performance of the tests by a qualified representative of the procuring activity.
c. Disposition of the Equipment Under Test (EUT).

(Continued on Page 2)

11. DISTRIBUTION STATEMENT

DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.

Block 10, Preparation Instructions (Continued)

d. Description of the EUT, including function and intended use or installation, actual cable types or characteristics and construction details (see 4.8.5 of MIL-STD-462), and electrical current (Root Mean Square for Alternating Current) level on each power input line.
e. List of tests performed with pass/fail indications.
f. Any approved deviation from contractual test procedures, test limits, or test frequencies previously authorized.
g. Identification of Non-Developmental Items (NDI) and Government Furnished Equipment (GFE) that may be part of the EUT.

10.3.2 Appendices. A separate appendix shall be prepared for each test. Each appendix shall cover the applicable test procedure or reference to the approved EMI Test Procedures (EMITP), data sheets, graphs, illustrations, and photographs. If deviations from an approved test procedure occurred during the test program, an additional appendix shall be provided with the "as run" procedures with all red-lines and procuring activity concurrences. The log sheets shall be contained in a separate appendix which shall be shown last. Each appendix shall contain the following factual data:

a. Nomenclature of interference measuring equipment.
b. Serial numbers of interference measuring equipment and version of software used.
c. Due date of calibration of interference measuring equipment, procedures used and the traceability.
d. Photographs or diagrams of the actual test set up and EUT, with identification.
e. Transfer impedance of current probes.
f. Antenna factors and Low-Noise Amplifiers' (LNA's) compression points.
g. Impedance values of Line Impedance Stabilization Networks (LISN).
h. If suppression devices are employed to meet the contractual requirements, they shall be identified, using schematic, performance data, and drawings.
i. Sample calculations, such as conversions of measured levels for comparison against the applicable limit.
j. The ambient radiated and conducted electromagnetic emission profile of the test facility, when necessary.
k. Data, and data presentation, as specified in paragraph 5 of the individual test methods of MIL-STD-462.
l. Scan speeds.
m. Measurement bandwidths.
n. Antenna polarization.
o. Power line voltages, frequencies, and power factor.

10.3.3 Recommendations and conclusions. Recommendations and conclusions shall be described, including results of the tests in brief narrative form, a discussion of remedial actions initiated, and proposed corrective measures recommended to assure compliance of the equipment or subsystem with the contractual EMI requirements.