

DATA ITEM DESCRIPTION			Form Approved OMB No. 0704-0188 Exp. Date: Jun 30, 1986	
1. TITLE TEST REQUIREMENTS DOCUMENT		2. IDENTIFICATION NUMBER DI-ATTS-80002		
3. DESCRIPTION/PURPOSE 3.1 Test Requirements Documents (TRD) identify and describe all tests to be performed on the end item to verify design and performance requirements established in the contract and end item specification.				
4. APPROVAL DATE (YYMMDD) 850415	5. OFFICE OF PRIMARY RESPONSIBILITY (OPR) G/T2137	6a. DTIC REQUIRED	6b. GIDEP REQUIRED	
7. APPLICATION / INTERRELATIONSHIP 7.1 This data item description (DID) is applicable to hardware, computer programs and firmware where testing documentation is required to verify that the deliverable item meets all design and performance requirements. 7.2 This DID satisfies the requirements of paragraph 3.1 of DOD-T-86000(NS). 7.3 This DID replaces DI-T-5583A.				
8. APPROVAL LIMITATION		9a. APPLICABLE FORMS		9b. AMSC NUMBER G3562
10. PREPARATION INSTRUCTIONS 10.1 <u>Source document.</u> The applicable issue of the document cited herein, including their approval dates and dates of any applicable amendments and revisions, shall be as reflected in the contract. 10.2 <u>Format.</u> 10.2.1 <u>General.</u> TRDs shall be prepared as Size A Book Size Drawings and shall contain the following: a. Cover sheet b. Approval sheet c. Revision summary sheet d. Configuration data e. Test requirements 10.2.2 <u>Drawing package.</u> When the TRD is part of an engineering drawing package, Size A drawing forms shall be used and shall reflect the format in paragraphs 10.2.1a through e. 10.2.3 <u>Sectionalized test requirements.</u> When specified in the contract, each individual test of the major test category shall be presented as a separate section within the Test Requirements section (see 10.2.1e). 10.3 <u>Content.</u> General content shall be in accordance with paragraphs 3.1 through 3.1.8 of DOD-T-86000.				

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10. PREPARATION INSTRUCTIONS (Cont'd)**10.3.1 Cover sheet.** The cover sheet shall identify:

- a. Item name
- b. Item nomenclature
- c. TRD identifier
- d. Contractor name
- e. Manufacturer name
- f. Preparer name

10.3.2 Approval sheet. The approval sheet shall include the following information for each person(s) responsible for approving the TRD:

- a. Name
- b. Title
- c. Organization
- d. Signature
- e. Date approved

10.3.3 Revision summary sheet. The revision summary sheet shall identify all revisions made to the TRD. Revision identification shall include:

- a. Page number
- b. Revision letter
- c. Approval activity
- d. Date of approval
- e. Configuration item number
- f. Engineering Change Proposal (ECP)
- g. Reason for change

10.3.4 Configuration data. Configuration data shall list all engineering documents applicable to the item being tested and referenced within the TRD. Document identification shall include:

- a. Document identification number
- b. Document revision letter
- c. Document revision date
- d. Document title

10.3.4.1 Order of listing. Documents shall be listed using the following order:

- a. Federal specifications
- b. Military specifications
- c. Federal standards
- d. Military standards
- e. Federal handbooks
- f. Military handbooks
- g. Other Government documents, drawings and publications
- h. Non-Government publications

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10.3.5 Test requirements.

10.3.5.1 Hardware. Hardware test requirements shall include the following:

10.3.5.1.1 Tests. Identify and describe the types of tests to be performed.

10.3.5.1.2 Test tools. Test tools required; specify type and quantity.

10.3.5.1.3 Test equipment. Test equipment; specify type and quantity.

10.3.5.1.4 Facilities. Specify facilities required.

10.3.5.1.5 Government Furnished Equipment. Government Furnished Equipment to be used.

10.3.5.1.6 Special tools. Special test tools, equipment and facilities with narrative and/or illustrations to recreate special setups.

10.3.5.1.7 Hookup methods. Hookup methods shall include:

- a. Interface connections procedures
- b. Identification of terminals used
- c. Identification of connectors used
- d. Identification of interconnecting cables
- e. Special test circuit diagrams

10.3.5.1.8 Pretest data. Pretest data shall identify those positions required to be established prior to the start of the tests and shall include:

- a. Adjustments
- b. Dial positions
- c. Switch positions

10.3.5.1.9 Test conditions. Specify all test conditions applicable to the test procedures.

10.3.5.1.10 Safety requirements. Identify all safety precautions and practices.

10.3.5.1.11 Test data records. Test data records shall include forms for recording test data and shall identify the measurements to be made and the data to be recorded.

10.3.5.1.12 Operation limits. Minimum and maximum operational limits shall be identified.

10.3.5.1.13 Performance criteria. Performance criteria for determining acceptable performance of the end item shall reflect the performance parameters established in the contract or item specification.

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10.3.5.1.14 Test procedures. Identification of test procedures shall include:

- a. A logical and sequential order of tests to be performed
- b. Each function and step required to obtain the desired result
- c. Expected test results
- d. Recording of data
- e. Functional and performance tests for alignment, meters, switches, indicators, controls, alarms, and other pertinent considerations
- f. Clarifying and supporting notes, as required

10.3.5.2 Computer program. Computer program test requirements shall include the elements of Section 4, Test Specification and Evaluation, and Section 5, Test (Identify) Description, of Figure 3-09, Test Plan, of DOD-STD-7935.

10.3.5.3 Firmware. Firmware test requirements shall identify applicable software requirements per paragraph 10.3.5.2 and hardware test requirements per paragraph 10.3.5.1. The test procedures shall be in a logical sequence to allow for thorough test coverage of the firmware item.