

DATA ITEM DESCRIPTIONForm Approved
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1. TITLE TESTABILITY REQUIREMENTS ANALYSIS REPORT	2. IDENTIFICATION NUMBER DI-ATTS-81271
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3. DESCRIPTION/PURPOSE

3.1 This report documents the results of the diagnostic concept and testability requirements of MIL-STD-2165. These data are to be used to evaluate the selection of a specific diagnostic concept to be incorporated in a system.

4. APPROVAL DATE (YYMMDD) 920612	5. OFFICE OF PRIMARY RESPONSIBILITY (OPR) SH	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE
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7. APPLICATION/INTERRELATIONSHIP

7.1 This DID contains the format and content preparation instructions for data resulting from the work task described by Task 201 of MIL-STD-2165A.

7.2 This DID may be applicable to all system and equipment development programs.

7.3 This DID supersedes DI-T-7199.

8. APPROVAL LIMITATION	9a. APPLICABLE FORMS	9b. AMSC NUMBER N6744
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10. PREPARATION INSTRUCTIONS

10.1 Reference documents. The applicable issue of the documents cited herein, including the approval dates of any applicable amendments, notices, and revisions, shall be specified in the contract.

10.2 Format. The Testability Requirements Analysis Report shall be in the contractor's format.

10.3 Content Requirements. The content of the Testability Requirements Analysis Report shall be prepared in accordance with MIL-STD-2165A, Task 201, and shall include the following:

10.3.1 A brief description of the functional operation of the system and of each item.

10.3.2 A description of system maintenance and support concept.

10.3.3 Specific Content Requirements. The specific content requirements shall include:

10.3.3.1 Description of methodologies, models, and tools to be used in predicting built-in test fault detection and fault isolation effectiveness.

(Continued on page 2)

11. DISTRIBUTION STATEMENT

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

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BLOCK 10. PREPARATION INSTRUCTIONS (Continued)

10.3.3.2 Description of methodology used to derive system-level diagnostic needs, to allocate system testability requirements to each item, and to recommend testability requirements for each item.

10.3.3.3 Description of trade-off methodology used to evaluate alternatives.

10.3.3.4 Description of each diagnostic concept alternative considered. All diagnostic elements relating to testing, technical information delivery, personnel skill levels, and training concepts for each alternative shall be included.

10.3.3.5 Results of diagnostic trade-offs, including the impact of each alternative on readiness, life cycle costs, manpower, and training.

10.3.3.6 Description of the selected system diagnostic concept, including recommended testability requirements for the system.