DATA ITEM DESCRIPTION

Title: Test Plan

Number: DI-NDTI-80566A
AMSC Number: 7639
DTIC Applicable: No
Office of Primary Responsibility: NS/DA02
Applicable Forms: N/A

Approval Date: 14 Nov 2006
Limitation: N/A
GIDEP Applicable: No

Use/relationship: The Test Plan outlines the plans and performance objectives at every level of testing on systems or equipment. It provides the procuring activity with the test concept, objectives and requirements to be satisfied, test methods, elements, responsible activities associated with the testing, measures required and recording procedures to be used.

This Data Item Description (DID) contains format and content preparation instructions for the data product generated by the specific and discrete task requirement as delineated in the contract.

This DID is applicable to system and equipment tests that include design evaluation tests, engineering tests, preliminary qualification tests, formal qualification tests, human factors tests, operational tests and acceptance tests.

This DID supersede DI-NDTI-80566.

Requirements:

1. Reference documents. None.

2. General. The test plan shall document in detail the contractor's plan for conducting tests and analyzing the test results to show how the system, when fielded, will satisfy the requirements of the applicable design specification.

3. Format: The plan shall be in contractor's format.

4. Contents. The plan shall contain the following:

4.1 Title page. The title page shall include the following:
a. Title of the test to be conducted.
b. Identification of system being tested.
c. Contractor's name.
d. Contractor number.

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e. Security classification.
f. Distribution statement.

4.2 Introduction. Consists of an overview of the objectives of the test plan, including flow diagrams, milestones, personnel participation, locations, schedules, and security measures to be observed. The plan shall include the following:

4.3 Flow diagrams. The flow diagrams will reflect a functional description of the test program using a block diagram portrayal of the functions that must be met to satisfy the total test program. Functions shall be numbered 1.0, 2.0, 3.0, etc.

4.4 Milestones. Identifies the start and expected completion dates of each test to be performed.

4.5 Participation. Identifies the government and contractor participation roles and responsibilties.

4.6 Location. Identifies the facilities where the testing will be performed.

4.7 Schedule. States when testing will be performed, whether testing is on schedule, and if not, what procedures will be taken to meet the schedule.

4.8 Security. Identify and state briefly any security measures of guidelines to be observed.

4.9 Master test list. Lists all tests to be accomplished in the order they are to be performed. A separate listing for each location shall be provided. Each listing shall include the following:

4.9.1 Test description. Name and brief description of test to be performed.

4.9.2 Applicable specification (s). The specifications shall be identified as follows:

a. Title and identification number.
b. Paragraph number associated with the tests.
c. Title of test.
d. Functional category of test.

4.9.3 Parameters. The number of cycles the test will be performed and selected parameters to be observed.

4.9.4 Special tests. Provides a list of special or unusual tests and examination necessary to verify satisfactory equipment performance to specifications.

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4.9.5 Test classification category. State the functional area of each test performed.

4.9.6 Test objectives. Describes the objectives of each test performed, including the criteria, baseline, duration, and number of times each test should be performed.
a. Success/failure criteria.
b. Baseline.
c. Duration.
d. Quantity of test.

4.9.7 Test equipment. List all equipment to be used in the test and identify as follows:
a. Description.
b. Nomenclature.
c. Serial number.

4.9.8 Support equipment. List all support equipment that will be used to perform the tests and identify as follows:
a. Description.
b. Nomenclature.
c. Serial number.
d. Calibration constants.
e. Calibration procedures.
f. Operating instructions.

4.9.9 Special test equipment. List all special test equipment required to be designed or fabricated for use on the program as follows:
a. Description.
b. Nomenclature.
c. Data required.

4.9.10 Approach. Describe the steps used to perform each test.

4.9.11 Instrumentation. Indicates the type and recording devices that will be used and the number and types of parameters to be recorded.

4.9.12 Data reduction and analysis. Describes data to be recorded and the data reduction and analysis techniques that will be used to interpret the data.

4.9.13 Government test facilities. Identifies applicable facility and includes a reference to the appropriate facility requirements documents.

Validation procedure. An overview of the procedures that the contractor will use to validate the test results.

5. END OF DI-NDTI-80566A

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