

DATA ITEM DESCRIPTION

Title: Reliability Test Plan

Number: DI-NDTI-81585

Approval Date: 5 October 2000

AMSC Number: G7400

Limitation: N/A

DTIC Applicable: No

GIDEP Applicable: No

Office of Primary Responsibility: G/Y243

Applicable Forms: N/A

Use/relationship:

This plan describes the overall reliability test planning and its total integrated test requirements. It delineates required reliability tests, their purpose and schedule. This document will be used by the procuring activity for review, approval, and subsequent surveillance and evaluation of the contractor's reliability test program.

Requirements:

1. Reference documents: None

2. Format: Contractor format is authorized.

3. Content: The Reliability Test Plan shall identify and describe planned contractor activities for implementation of reliability test and Environmental Stress Screening (ESS), if required, by the contract. The plan shall contain a complete listing of all tests to be conducted for the primary purpose of obtaining data for use in reliability analysis and evaluation of the contract item or any constituent elements thereof. The test plan shall include the following:

- a. Test objectives and requirements of each reliability test.
- b. Test item configuration description and quantity to be tested.
- c. Test conditions, environmental, operational and performance profiles, and the duty cycle.
- d. Test schedules and milestones including the test program review schedule.
- e. Test conduct ground rules, failure and accept criteria, and interface boundaries.
- f. Test facility and equipment descriptions and requirements, including provisions for voltage, temperature, and vibration.
- g. Government furnished property requirements and impact.
- h. List of test reports to be issued.
- i. Failure recurrence control system to be used to ensure corrective action.
- j. List of test procedures to be used.
- k. Definition of items termed replaceable at failure.
- l. Detailed reason for each proposed deviation.
- m. Assignment of specific responsibilities.
- n. Access control to test area and equipment under test.
- o. Specific contractor/procuring activity organizational element with respective authorities and responsibilities for implementation of reliability testing as a mutually agreed to and approved by the procuring activity.

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- p. Allocated funds or man-months.
- q. Organizational lines of communications.
- r. ESS implementation plan if required.