

## DATA ITEM DESCRIPTION

**Title:** RELIABILITY DEVELOPMENT GROWTH TEST REPORT

**Number:** DI-SESS-81628

**AMSC Number:** N7458

**DTIC Applicable:**

**Office of Primary Responsibility:** N/PMS377

**Applicable Forms:**

**Use/Relationship:** The Reliability Development Growth Test Report is a formal record of the contractor's reliability development growth testing results.

**Approval Date:** 20010801

**Limitation:**

**GIDEP Applicable:**

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

### Requirements:

1. Format. The Reliability Development Growth Test (RDGT) Report shall be presented in the Contractor's format.
2. Content. The RDGT Report shall contain the following information:
  - a. Test article identification and full description of test specimens utilized, including any deviations from the configurations specified in the applicable test plan.
  - b. Date and geographical location of test or evaluation.
  - c. Statement of test/evaluation objectives, including type, unit of measure, and quantitative goals/requirements to be demonstrated.
  - d. Statistical confidence calculations, if appropriate.
  - e. Discussion of methods and conditions of the demonstration, including test plan used, environmental levels, test profile, methods of evaluating the data obtained and comparison of the conditions with those anticipated in ultimate deployment and use of the contract item.
  - f. Results obtained, including specific identification and discussion of objectives demonstrated satisfactorily and those not demonstrated satisfactorily.
  - g. Corrective action anticipated, if applicable.
  - h. Contractor's conclusions and recommendations based on evaluation of the test/demonstration results.
  - i. Requirements for and results of retest in cases where a reject decision was reached.

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j. An appendix containing the following shall be included:

- [1] Type and number of units on test and type of test
- [2] Total elapsed unit hours of test time during the period covered in the report
- [3] Total number of equipment failures for each operational mode specified in the duty cycle
- [4] Description of each failure problem area, related failure analysis, and correction action
- [5] Test conditions and analysis of any variation from specified conditions
- [6] Reject/accept status
- [7] A chart showing a plot of the observed MTBF (O) from start of test through the end of the reporting period and the predicted value of MTBF for comparison.
- [8] A detailed chart depicting the history of every unit by serial number and time meter readings. This history traces all activities from and including Environmental Stress Screening to delivery.
- [9] The status and/or disposition of each corrective action.

End of DISESS-81628.