

## DATA ITEM DESCRIPTION

**Title:** RELIABILITY TEST REPORT

**Number:** DI-SESS-81628B

**AMSC Number:** N10153

**DTIC Applicable:** Yes

Defense Technical Information Center

ATTN: DTIC-

8725 John J. Kingman Road, Suite 0944

Fort Belvoir VA 22060-6218

**Preparing Activity:** AS

**Applicable Forms:** N/A

**Approval Date:** 20200218

**Limitation:** N/A

**GIDEP Applicable:** Yes

GIDEP Operations Center

Naval Warfare Assessment Center

P. O. Box 8000

Corona, CA 91718-8000

**Project Number:** SESS-2020-019

**Use/relationship:** The Reliability Test Report is a formal record of the results of the contractor's reliability tests and is used by the procuring activity to evaluate the degree to which the reliability requirements have been met. The reports shall be periodic test Summary Reports or Final Test Reports, as reflected in the contract, and are applicable for each reliability test performed. These reports may be used to report the results of reliability test or other tests or actions performed from which reliability evaluation is a byproduct.

This Data Item Description (DID) contains the format, content, and intended use information for the data deliverable resulting from the work task described in the contract.

### Requirements:

1. Reference documents. None.
2. Format. The Reliability Test Report shall be in the contractor's format.
3. Content. The Reliability Test Report shall contain the results of each test or other action taken to demonstrate the level of reliability achieved. The report shall contain the following:
  - 3.1. Description of test performed.
  - 3.2. Statement of test objectives, including: type, unit(s) of measure, and quantitative goals and requirements to be demonstrated, including specific references to the applicable sections of the specification.
  - 3.3. Test article identification and full description of test articles utilized, including software (i.e. lot from which the test sample was taken, lots represented by the sample, test group number, software version or configuration, etc.). Include any deviations from the configuration specified in the applicable test plan, along with reasons for each deviation.
  - 3.4. Date and location of test or evaluation.

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- 3.5. Discussion of methods and conditions of the test or demonstration, including: test plan and procedure used environmental levels, operational and performance profiles, duration, measurements, methods of evaluating the data obtained and comparison of the conditions with those anticipated in operational deployment and use of the contract item.
- 3.6. Results obtained, including specific identification and discussion of test objectives+ demonstrated satisfactorily and those not demonstrated satisfactorily.
- 3.7. Statistical confidence calculations, if applicable.
- 3.8. Test incident reports or FRACAS reports generated and identification of anticipated corrective action(s) if applicable.
- 3.9. Contractor's conclusion and recommendations based on evaluation of the test results.
- 3.10. Requirements for and results of retest in cases where a reject decision was reached.
- 4.0. Summary Report. Periodic reliability test summary reports shall consist of summaries of the progress or status of reliability tests underway during the reporting period. All periodic summaries shall include the following:
  - 4.1. Type and number of units on test and the type of test.
  - 4.2. Total elapsed unit hours of test time during the period covered in the report.
  - 4.3. Total number of equipment failures for each operational mode specified in the duty cycle.
  - 4.4. Description of each failure problem area, related failure analysis, and corrective action status/disposition.
  - 4.5. Test conditions and analysis of any variation from specified conditions.
  - 4.6. Present accept or reject status.
  - 4.7. A reliability growth curve showing a plot of the observed reliability from start of test through the report period and the predicted value of reliability for comparison.
- 5.0. Final Report. The final reliability test report shall include the information required by the summary report, and the results of the completed reliability tests or other action(s) performed or evaluated to demonstrate reliability.

End of DI-SESS-81628B