

## DATA ITEM DESCRIPTION

**Title:** Failure Analysis and Corrective Action Report

**Number:** DI-SESS-81315A

**AMSC Number:** G6995

**DTIC Applicable:** No

**Office of Primary Responsibility:** NS/I5223

**Applicable Forms:** N/A

**Approval Date:** 21 NOV 2006

**Limitation:** N/A

**GIDEP Applicable:** No

### Use/relationship:

Provides immediate reporting of failure and subsequent details failure analysis results and corrective action recommendation.

This Data Item Description (DID) contains the format and content preparation instructions for the data resulting from the Reliability test requirements and failures described in the contract (see MIL-HDBK-781 for sample test methods).

This DID supersedes DI-RELI-81315.

### Requirements:

#### 1. Reference documents.

The applicable issue of the documents cited herein, including their approval dates and dates of any applicable amendments, notices, and revisions, shall be as cited in the current issue of the DODISS at the time of solicitation; or for non DODISS –listed documents, as stated herein.

#### 2. Format:

The report shall be in contractor's format and shall be the same for both the Preliminary and Final Report.

#### 3. Content:

##### 3.1 The Preliminary Report shall contain the following items:

- a. Originator of the report
- b. Date of the failure
- c. Date of the report
- d. Contractor's name
- e. Failure Analysis Report Number
- f. Contract number
- g. Equipment, title, part number, and serial number

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- h. Assembly title, part number, and serial number
  - i. Subassembly title, element or module title, part number, and serial number
  - j. Part name, part number, serial number, date code, and manufacturer
  - k. Name and specification of test failed
  - l. Elapsed time and phase of test failed
  - m. Total operation time of unit at time of failure
  - n. Failure symptoms
  - o. Failure mode
  - p. Classification failure (independent of dependent)
  - q. Type of failure from Failure Keyword List (see 5.1)
  - r. Disposition of failed item
  - s. Any supplemental information relating to the failure (i.e., any internal contractor assessments, records, reports, correspondence, etc.).
- 3.2 The Final Report shall contain the items required in the Preliminary Report and the following additional items shall be included:
- a. Failure Analysis Report Number
  - b. Failure Analysis methods
  - c. Failure Analysis results
  - d. Statement as to whether this is a pattern failure. If it is, the reports of the other failure(s) will be referenced
  - e. Corrective action:
    - (1) Action for individual equipment failure
    - (2) Measures to prevent other failures

#### 4. Nonrelevant and Unverified Failures.

Nonrelevant and unverified failures shall be coded as “NR” for a nonrelevant failure and “UV” for an unverified failure.

#### 5. Failure Keyword List.

5.1 Content. The content shall include:

- (1) Workmanship
- (2) Handling
- (3) Process
- (4) Design
- (5) Marking
- (6) Test Equipment
- (7) Contamination
- (8) Open Bond Wire
- (9) Electrical Short

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- (10) Electrical Open
- (11) Software
- (12) Mechanical
- (13) Nonrelevant
- (14) Under Investigation
- (15) Unknown
- (16) Unverified
- (17) Glitch
- (18) Testing Error
- (19) Tolerance

6. END OF DI-SESS-81315A