

DATA ITEM DESCRIPTION

Title: Failure Analysis and Corrective Action Report (FACAR) (NAVY)

Number: DI-SESS-81927

Approval Date: 20130701

AMSC Number: N9390

Limitation: N/A

DTIC Applicable: N/A

GIDEP Applicable: N/A

Office of Primary Responsibility: SH/PMS404

Applicable Forms: Test Incident Report (TIR) interactive web Corrective Action submittal form or other Army Test Incident Reporting Systems (ATIRS) approved format/transfer method for Army Test Command (ATC) Vision Digital Library System (VDLS) (optional).

Use/relationship:

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

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-781A for sample test methods).

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 ASSIST at the time of solicitation; or, for non ASSIST-listed documents, as stated herein.
2. Format. The report shall be in the contractor's format and shall be the same for both the Preliminary and the Final report.
3. Content.

The Preliminary Report shall contain the following items:

- A. Originator of the report
- B. Date of the failure/Incident (TIR block 40)
- C. Date of Hardware Receipt from Government
- D. Start date of Contractor's Report
- E. Contractor's name
- F. Failure Analysis Report Number
- G. Contract number
- H. Equipment, title, part number, and serial number
- I. Assembly title, part number, and serial number
- J. Subassembly title, element or module title, part number, and serial number
- K. Part name, part number, serial number, date code, and manufacturer

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- L. Reference designator
- M. Name and specification of test failed
- N. Elapsed time and phase of test failed
- O. Total operation time of unit at time of failure
- P. Test Phase Performed (i.e. vendor, CCA First Function, FAT, pre-range, in-water, post-range, etc.)
- Q. Failure symptoms
- R. Failure mode, Developer's Analysis of Problem (ref: TIR block 106)
- S. Classification failure (independent or dependent)
- T. Type of failure from Failure Keyword List (See 4)
- U. Operational and environmental conditions under which the failure occurred
- V. Disposition of failed item
- W. Any supplemental information relating to the failure (i.e., any internal contractor assessments, records, reports, correspondence, etc.)
- X. Corrective Action Status (ref: TIR block 100). The content shall include one of:
 - (1) "Open" (no solution is proposed)
 - (2) "Proposed" (FACAR Initial or Final submitted by contractor)
 - (3) "Verified" (demonstrated at Test Site)
 - (4) "Reviewed" (Corrective Action Review Team (CART) judges Corrective Action as effective)
 - (5) "Completed" (approved for production implementation)
 - (6) "Incomplete" (external program influence)
 - (7) "Not Required"

The Final Report shall contain the items required in the Preliminary Report and the following additional items shall be included:

- Y. Failure analysis methods
- Z. Corrective Action Test Results (ref: TIR block 108)
- AA. Failure analysis results including parts analysis
- BB. Failure history including vendor, subcontractor, factory
- CC. Failure trend analysis
- DD. Statement as to whether this is a pattern failure. If it is, the reports of the other failure(s) will be referenced.
- EE. Corrective Action:
 - (1) Description for individual equipment failure (ref: TIR block 107)
 - (2) Implementation – Planned/Achieved to prevent other failures for: (ref: TIR block 109)
 - (a) Present corrective action
 - (b) Forward corrective action
 - (c) Backward corrective action
- FF. Identification of root cause
- GG. Items affected by corrective action
- HH. TMIS number
- II. Mission impact
- JJ. Criticality. The content shall include one of:

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- (1) Catastrophic: A failure which would create safety hazards to personnel and or loss of system platform.
 - (2) Critical: A failure which will result in mission loss.
 - (3) Major: A failure which would degrade in-water performance or cause reduction in availability.
 - (4) Minor: A failure which would degrade performance or cause reduction in availability but would not result in degraded in-water performance.
- KK. Conference Date: Date item was scored by Government
- LL. Lot Number (i.e. LRIP 1, LRIP 2, etc.)
- MM. Summary of changes
4. Failure Keyword List. The Failure Keyword List shall include:
- A. Workmanship
 - B. Handling
 - C. Process
 - D. Design
 - E. Marking
 - F. Test Equipment
 - G. Contamination
 - H. Open Bond Wire
 - I. Electrical Short
 - J. Electrical Open
 - K. Software
 - L. Mechanical
 - M. Testing Error
 - N. Tolerance
 - O. Nonrelevant
 - P. Under Investigation
 - Q. Unknown
 - R. Unverified
 - S. Glitch
 - T. Component
 - U. Non valid
5. END OF DI-SESS-81927.