DATA ITEM DESCRIPTION

Title: RELIABILITY CENTERED MAINTENANCE (RCM) ADDITIONAL FUNCTIONALLY SIGNIFICANT ITEM (AFSI) SELECTION REPORT

Number: DI-SESS-80983A   **Approval Date: 20100923**
AMSC Number: N9166   **Limitation: N/A**
DTIC Applicable: N/A   **GIDEP Applicable: N/A**
Office of Primary Responsibility: SH/SEA 04RM
Applicable Forms: N/A

Use/Relationship:
The Reliability Centered Maintenance (RCM) Additional Functionally significant Item (FSI) Index Selection Report defines items considered to be candidates for selection as additional FSIs.

This Data Item Description (DID) contains the format, content, preparation instructions and intended use information for the data deliverable resulting from the work task described in 5.1.3 of MIL-STD-3034.

This DID is related to DI-SESS-80979A, RCM Master System and Subsystem Index (MSSI); DI-SESS-80994A, RCM Functional Block Diagram (FBD); DI-SESS-80981A, RCM Functional Failure Analysis(FFA)Report; DI-SESS-80983A, DI-SESS-80982A, RCM Functionally Significant Items (FSI) Index; DI-SESS-80980A, RCM Failure Modes and Effects Analysis (FMEA) Report; DI-SESS-80984A, RCM Logic Tree Analysis (LTA) with Supporting Rationale and Justification Report; DI-SESS-80985A, RCM Servicing and Lubrication Analysis (SLA) Report; DI-SESS-81829, RCM Corrective Maintenance (CM) Development Report; DI-SESS-80989A, RCM Inactive Equipment Maintenance (IEM) Requirement Analysis Report; DI-SESS-80986A, RCM Maintenance Requirements Index (MRI); DI-SESS-80988A, RCM Task Definition Report; DI-SESS-80987A, RCM Procedure Validation Report.

This DID supersedes DI-MNTY-80983.

Requirements:

1. Reference documents. The applicable issue of documents cited herein, including approval dates and dates of any applicable amendments, notices, and revisions, shall be as cited in the contract.

2. <u>Format</u>. This report shall be in Contractor's format and shall be presented in the electronic database specified in the contract.

3. <u>Content</u>. This report shall contain all of the information specified in the sample form of Figure 1 of this DID as follows:

3.1 <u>Block 1. ESWBS number.</u> Enter the Expanded Ship Work Break down Structures (ESWBS) number for the Functionally Significant Item (FSI) candidate. If the candidate is below level 4 and does not have a unique ESWBS number, add a suffix to the level 4 ESWBS number and use this throughout the analysis.

3.2 <u>Block 2. Nomenclature FSI candidate</u>. Enter the nomenclature of the FSI candidate.

3.3 <u>Block 3. Ship Class</u>. Enter the ship class and hull number on which the analysis is based.

3.4 <u>Block 4. Prepared by</u>. Enter the analyst's name and the date.

3.5 <u>Block 5. Reviewed by</u>. Enter the first level reviewer's name and the date.

3.6 <u>Block 6. Approved by</u>. Reserved for the maintenance coordinating activity approval signature and date.

3.7 <u>Block 7. Revision</u>. Enter Original, A, B, or C, sequentially and the date

3.8 <u>Block 8. Description</u>. Enter a brief functional description of this item keyed to its maintenance needs and provisions for maintenance. After this narrative document the following specific information about the system:

    a. Redundancy: Enter NONE or describe a redundant relationship.

    b.   Interfaces: Enter In and Out interfaces.

    c.   Built In Test Equipment (BITE): Enter NONE or describe the BITE.

    d.   Regulatory: Enter NONE or describe the regulation imposed upon this item.

e.   Indicators: Document indication, to whom, and conditions when observed.

(1) Indication: Describe what the indicator tells about the system.

(2) To whom: List the watch station or the title of the operator who observes the indicator.

(3) Observed: Specify the conditions when the watch station is manned or the indication is observed.

3.9 <u>Block 9. Location</u>. Enter the compartment numbers of spaces where this item is located.

3.10 <u>Block 10. Quantity</u>. Enter the quantity of items installed in this system.

3.11 <u>Block 11. Function(s)</u>. Enter definitions of the functions of this item; number sequentially 1.0, 2.0, 3.0, etc. Under the impact column, block 11a, enter a yes or no in answer to the question, "Are any of these functions necessary for safety, mobility, or mission?"

3.12 <u>Block 12. Functional Failures</u>. Enter the definitions of the failure(s) for each of the functions listed in block 11. Number each 1.1, 1.2, 1.3; 2.1, 2.2, and 2.3 corresponding to the appropriate function. Under the Impact column, block 12A, enter a YES or NO in answer to the question, "Do any of these failures have a direct adverse impact on safety?"

3.13 <u>Block 13. Reliability</u>. Enter data for estimated corrective maintenance rate. This data may be mean time between failure (MTBF), requisitions, technical feedback reports, or other data showing a corrective maintenance trend. Under the Impact column, block 13A, enter a Yes or No in answer to the question, "Is the estimated corrective maintenance rate greater than one per year?"

3.14 <u>Block 14. Cost</u>. Under the Impact column block 14A, enter a Yes or No in answer to the question, "Is this item's purchase cost greater than $5,000?"

3.15 <u>Block 15. Functionally Significant Item</u>? If there is a "Yes" in the impact column for any block, 11A through 14A, enter "Yes".

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3.16 Block 16. Serial Number. Enter a four-segment serial number as follows:
     a.   Segment 1 - Enter the developing organization abbreviation followed by a slant (/).

     b.   Segment 2 – For developers, enter the development authorization number followed by a slant (/); for other development activities, assign a development number followed by a slant (/).

     c.   Segment 3 - Enter the number 117, indicating the additional FSI selection form, followed by a slant (/).

     d.   Segment 4 - Enter the ESWBS number from block 1.

4. End of DI-SESS-80983A.

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1. ESWBS NUMBER	2. NOMENCLATURE FSI CANDIDATE		3. SHIP CLASS	SH OF
4. PREPARED BY DATE	5. REVIEWED BY DATE	6. APPROVED BY DATE	7. REVISION DATE	

8. DESCRIPTION	9. LOCATION
	10. QTY

11. FUNCTIONS	11A. IMPACT? (Y/N)
ARE ANY OF THESE FUNCTIONS NECESSARY FOR SAFETY, MOBILITY, OR MISSION?	

12. FUNCTIONAL FAILURES	12A. IMPACT? (Y/N)
DO ANY OF THESE FAILURES HAVE A DIRECT ADVERSE IMPACT ON SAFETY?	

13. RELIABILITY	13A. IMPACT? (Y/N)
IS THE ESTIMATED CORRECTIVE MAINTENANCE RATE GREATER THAN 1 PER YEAR?	

14. COST	14A. IMPACT? (Y/N)
IS THIS ITEM'S PURCHASE COST GREATER THAN $5000?	

15. MASTER FSI INDEX TRANSFER? (Y/N)	16. SERIAL NUMBER

ADDITIONAL FUNCTIONALLY SIGNIFICANT ITEMS SELECTION

FIGURE 1. ADDITIONAL FUNCTIONALLY SIGNIFICANT ITEMS SELECTION