DATA ITEM DESCRIPTION
Title: RELIABILITY-CENTERED MAINTENANCE (RCM) MAINTENANCE
REQUIREMENT INDEX (MRI)

Number: DI-PSSS-82023   **Approval Date:** 20160128
AMSC Number: N9625   **Limitation:** N/A
DTIC Applicable: N/A   **GIDEP Applicable:** N/A
Preparing Activity: SH   **Project Number:** PSSS-2015-012
Applicable Forms: N/A

Use/Relationship:
The Reliability-Centered Maintenance (RCM) Maintenance Requirement Index (MRI)
summarizes all maintenance tasks for the subsystem identified by the decision logic tree
analysis, servicing and lubrication analysis, corrective maintenance analysis, and inactive
equipment maintenance analysis.

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

This DID is related to DI-PSSS-80979B, RCM Master Systems and Subsystems Index (MSSI);
DI-PSSS-80994B, RCM Functional Block Diagram (FBD); DI-PSSS-80981B, RCM
Functional Failure Analysis (FFA) Report; DI-PSSS-80983B, RCM Additional Functionally
Significant Item (AFSI) Selection Report; DI-PSSS-80982B, RCM Functionally Significant
Items (FSI) Index; DI-PSSS-80980B, RCM Failure Modes and Effects Analysis (FMEA)
Report; DI-PSSS-80984B, RCM Decision Logic Tree Analysis (LTA) with Supporting
Rationale and Justification Report; DI-PSSS-80985B, RCM Servicing and Lubrication
Analysis (SLA) Report; DI-PSSS-80989B, RCM Inactive Equipment Maintenance (IEM)
Requirement Analysis Report; DI-PSSS-81829A, RCM Corrective Maintenance (CM)
Development Report; DI-PSSS-80988B, RCM Task Definition Report; DI-PSSS-80987B,
RCM Procedure Validation Report; DI-PSSS-80990A, RCM Documentation Control Sheet.

This DID supersedes DI-SESS-80986A.

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
specified in the contract.

2.   Format. The MRI report shall be in a format similar to that of the sample form of
Figure 1 of this DID.

3.   Content. The MRI report shall contain all the information specified in the sample form
of Figure 1 of this DID and as specified in MIL-STD-3034A, paragraph 5.1.9.1.

DI-PSSS-82023

3.1   Block 1. ESWBS Number. Enter the Expanded Ship Work Breakdown Structure (ESWBS) number of the subsystem under analysis, as defined in Block 8 of the Master Systems and Subsystems Index (MSSI).

3.2   Block 2. Nomenclature. Enter the nomenclature of the subsystem under analysis from block 9 of the MSSI.

3.3   Block 3. Ship Class. Enter the entry on the MSSI form, block 3.

3.4   Block 4. Prepared By. Enter the analyst's name and the date.

3.5   Block 5. Reviewed By. Enter the first level reviewer's name and the date.

3.6   Block 6. Approved By. Reserved for Maintenance Coordinating Activity approval signature and the date.

3.7   Block 7. Revision. Identify the revision level of the MRI report and enter e.g., "ORIGINAL", "A", "B", "C", etc., sequentially as applicable and date.

3.8   Block 8. Task Number. Task numbers are derived from the phase which generated the task as outlined below:

        a.   Enter a sequential task number in the format LTA-1, LTA-2, etc. for each task identified in the Logic Tree Analysis (LTA).

        b.   Enter a sequential task number in the format SLA-1, SLA-2, etc. for each task identified in the Servicing and Lubrication Analysis (SLA).

        c.   Enter a sequential task number in the format IEM-1, IEM-2, etc. for each task identified in the Inactive Equipment Maintenance (IEM) Requirement Analysis.

        d.   Enter a sequential task number in the format CM-1, CM-2, etc. for each task identified in the Corrective Maintenance (CM) Development Report.

3.9   Block 9. Nomenclature. Enter the name and description, as applicable, of the component on which the task is performed.

3.10   Block 10. Task Description. Enter a brief task description. This description shall be in the form of a sentence and be specific enough to convey the purpose of the task, e.g. "Lubricate bevel gear".

3.11   Block 11. RCM Task Type. Enter the applicable RCM preventive maintenance task type, i.e., "CD" for condition-directed, "TD" for Time-directed, "FF" for failure finding, and "SL" for servicing & lubrication.

3.12   Block 12. Reference. Enter the identification data for the publication that satisfies

DI-PSSS-82023

the task requirement. If no publication can completely satisfy the task requirement, enter the identification data for the publication that can be used as a baseline to assist in developing the task procedure. If no publication is available, enter "NONE".

3.13   Block 13. Level of Maintenance. Enter the Level of Maintenance, e.g., "O" for Organizational, "I" for Intermediate and "D" for Depot level maintenance.

3.14   Block 14. Periodicity. Enter the initial periodicity for the maintenance task. The initial periodicity for a maintenance task may be based upon similar existing tasks for the equipment, original equipment manufacturer (OEM) guidelines, Naval Ships' Technical Manual (NSTM) guidelines, best engineering judgment, etc.

3.15   Block 15. 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 123, indicating the Maintenance Requirement Index (MRI) form followed by a slant (/).

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

End of DI-PSSS-82023

DI-PSSS-82023

1. ESWBS NUMBER	2. NOMENCLATURE		3. SHIP CLASS	SH OF

4. PREPARED BY DATE:	5. REVIEWED BY DATE:	6. APPROVED BY DATE:	7. REVISION DATE:

8. TASK NUMBER	9. NOMENCLATURE	10. TASK DESCRIPTION	11. RCM TASK TYPE	12. REFERENCE / PUBLICATION	13. LEVEL OF MAINTENANCE	14. PERIODICITY
			15. SERIAL NUMBER			

MAINTENANCE REQUIREMENTS INDEX

SAMPLE FORM - FIGURE 1 - MAINTENANCE REQUIREMENT INDEX