DATA ITEM DESCRIPTION

1. DID NUMBER: DID-ILS-DES-RCMAR-V5.3
2. TITLE: Reliability Centred Maintenance Analysis Report
3. DESCRIPTION and intended use

The Reliability Centred Maintenance (RCM) Analysis Report (RCMAR) documents the outcomes of the RCM analysis activities conducted by the Contractor in accordance with the Contract.

The Contractor uses the RCMAR to:

describe how the Contractor's RCM analysis activities were conducted;

document the results of the Contractor's RCM analysis activities; and

make recommendations to the Commonwealth on the Preventive Maintenance tasks to be undertaken for the Mission System and Support System.

The Commonwealth uses the RCMAR to:

understand and evaluate the Contractor’s approach to meeting the requirements of the Contract;

monitor and evaluate the Contractor’s design for maintenance support with respect to preventive maintenance activities; and

enable the Commonwealth to undertake Independent Verification and Validation (IV&V) of the Contractor’s RCM analysis outcomes.

1. INTER-RELATIONSHIPS

The RCMAR is subordinate to the following data items, where these data items are required under the Contract:

Integrated Support Plan (ISP), and

Integrated Reliability, Maintainability and Testability Plan (IRMTP).

The RCMAR inter-relates with the following data items, where these data items are required under the Contract:

Failure Mode, Effects and Criticality Analysis Report (FMECAR),

Level Of Repair Analysis Report (LORAR),

Task Analysis Report (TAR), and

Logistic Support Analysis Record (LSAR).

Information delivered through the FMECAR is required by this report.

1. Applicable Documents

The following documents form a part of this DID to the extent specified herein:

|  |  |
| --- | --- |
| 1. Nil. |  |

1. Preparation Instructions
   1. Generic Format and Content

This data item shall comply with the general format, content and preparation instructions contained in the CDRL clause entitled ‘General Requirements for Data Items’.

The RCMAR need not be developed as one document. It may be divided into volumes and sections, provided that the head document links all sub documents, and references other data sources, together as a cohesive whole.

The data item shall include a traceability matrix that defines how each specific content requirement, as contained in this DID, is addressed by sections within the data item.

* 1. Specific Content
     1. RCM Analysis Summary

The RCMAR shall provide an overview of the RCM analysis activities performed, the RCM standards used, the RCM logic model(s) used, and any significant recommendations or observations resulting from the analysis.

* + 1. RCM Analysis Assumptions

The RCMAR shall describe the assumptions made when performing the RCM analysis.

* + 1. RCM Logic Models

Note: The SOW may specify the use of particular RCM logic models. The ISP should identify if different RCM logic is applied to different types of items.

The RCMAR shall identify the RCM logic models used and justify the choice of the RCM logic models selected.

* + 1. Preventive Maintenance Task List

The RCMAR shall identify, for each item of indenture for the Mission System and Support System, the Preventive Maintenance tasks to be undertaken, with a reference to the appropriate RCM worksheet detailing the analysis undertaken.

* + 1. RCM Worksheets

The RCMAR shall include all RCM worksheets used in the RCM analysis.

The RCMAR shall include all relevant FMECA worksheets with the RCMAR.

* + 1. Logistic Support Analysis Record Information

Where the Contract requires RCMAR results to be included within a Logistic Support Analysis Record (LSAR) and the LSAR is concurrently accessible to the Commonwealth, then the RCMAR should minimise duplication of LSAR data and refer to the applicable LSAR data release as part of the report.