

## DATA ITEM DESCRIPTION

**Title:** Reliability-Centered Maintenance (RCM) Analysis Report

**Number:** DI-PSSS-82114

**Approval Date:** 20170327

**AMSC Number:** N9787

**Limitation:** N/A

**DTIC Applicable:** No

**GIDEP Applicable:** No

**Preparing Activity:** MC

**Project Number:** PSSS-2017-012

**Applicable Forms:** RCM Analysis Information Phase Report and RCM Analysis Decision Phase Report.

### Use/Relationship:

The Reliability Centered Maintenance (RCM) Analysis Report documents, in complete detail, the information supporting and resulting from the RCM analysis of a system or asset conducted with the support of an RCM Review Group.

This Data Item Description (DID) provides guidance pertaining to the format, content, and intended purpose for the information generated in support of the contract SOW. This DID is related to DI-PSSS-82115, RCM Analysis Information Phase Report and DI-PSSS-82116, RCM Analysis Decision Phase Report.

### 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.

a. The report and all attachments shall be developed with a word processor, and be computer-generated.

b. The report shall be formatted to be printed on standard letter size paper (8½" x 11").

c. All enclosures shall be fully identified, referenced in the text, and folded to conform to the size paper used in the report.

d. Security classification and distribution markings shall conform to the requirements of the contract, purchase description and security requirements of the contract, purchase description and security requirements checklist, as applicable.

3. Content.

a. Title page. Identifies the report, project name, system name, contract number, task number and analysis date.

b. Table of contents. The table of contents identifies the topics covered in each part of the report and references the page on which each topic begins.

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c. Executive summary. A brief statement of the failure management strategy based on the seven RCM steps and developed with the support of an RCM review group.

d. Introduction. Addresses the objectives and details of the analytical effort.

e. Section I. Includes the following:

(1) Operating context of the asset or system. Addresses the requirements of the SAE JA1011 standard and SAE JA1012 guide. (Copies of SAE JA1011 and SAE JA1012 are available online at [www.sae.org](http://www.sae.org).)

(2) Review group members. Identifies the RCM facilitator, review group members, and other support personnel involved with the analysis, and as a minimum their organization, contact information, and job title.

(3) References. Identifies the Marine Corps technical publications, industry, or government publications, standards, or regulations consulted by the RCM review group to support the analysis.

(4) Analysis assumptions. Addresses, in detail, any assumptions adopted by the RCM review group to conduct the analysis.

f. Section II. Includes the following:

(1) Analysis boundary. Provides a high-level, graphical representation of the inputs to the system or asset during operation, systems, sub-systems, and components under analysis, and outputs from the system or asset as a result of its operation. The analysis boundary may also provide a detailed written justification behind the exclusion of any system/ sub-system/ component within the analysis boundary from analysis.

(2) Asset or system overview. Provides a brief visual and written representation of the asset or system under analysis.

g. Section III. RCM Analysis Results.

(1) Analysis highlights. Analysis highlights are extracted from the RCM information worksheet (DI-PSSS-82115) and RCM decision worksheet (DI-PSSS-82116).

(a) Safety-related issues and recommendations. A detailed description of each safety-related issue identified during the conduct of the analysis, along with the resulting recommendation developed by the RCM review group.

(b) Notable training-related issues and recommendations. A detailed description of noteworthy training-related issues identified during the conduct of the analysis, along with the resulting recommendations developed by the RCM review group.

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(c) Notable technical manual-related issues and recommendations. A detailed description of noteworthy technical manual-related issues identified during the conduct of the analysis, along with the resulting recommendations developed by the RCM review group.

(d) Notable design-related issues and recommendations. A detailed description of noteworthy design-related issues identified during the conduct of the analysis, along with the resulting recommendations developed by the RCM review group.

(e) Notable process-related issues and recommendations. A detailed description of noteworthy process-related issue identified during the conduct of the analysis, along with the resulting recommendations developed by the RCM review group.

(2) Preventive maintenance checks and services (PMCS) requirements.

(a) Validation of current tasks. Addresses current preventive maintenance, check and service requirements validated by the conduct of the RCM analysis.

(b) Modification of current tasks. Provides a detailed justification for any recommendation to modify any aspect of a current PMCS requirement.

(c) Additional PMCS tasks. Provides a detailed description and justification for any additional PMCS requirement recommended by the RCM review group.

(d) Current tasks recommended for deletion. Provides a detailed justification for any recommendation to delete a current PMCS requirement.

(3) List of safety-related recommendations. Formatted as a table. Provides a complete list of failure modes which may affect safety, in Risk Assessment Code (RAC) sequence, along with the recommendations developed by the RCM review group and intended to prevent or reduce the probability of the event to a level tolerable to the user or owner.

(4) Complete list of recommendations. Formatted as a table. Provides a complete list of recommendations, in Risk Priority Number (RPN) sequence, along with the recommendations developed by the RCM review group and intended to prevent or reduce the risk of failure.

h. Section IV – Appendixes. Appendixes shall include, as a minimum, the RCM information worksheet and RCM decision worksheet generated during the analysis. Any other information that enhances the value of the Analysis Report may also be included.

End of DI-PSSS-82114