DATA ITEM DESCRIPTION

1. DID NUMBER: -
2. TITLE: Level of Repair Analysis Report
3. DESCRIPTION and intended use

The Contractor uses the Level of Repair Analysis (LORA) Report (LORAR) to:

describe how the Contractor's LORA activities were conducted;

document the results of the Contractor's LORA activities; and

make recommendations to the Commonwealth on the logistic cost and operational advantages concerning:

repair versus discard-at-failure;

optimum repair levels;

Support and Test Equipment (S&TE) requirements;

maintenance facility requirements;

maintenance-support and supply-support Life Cycle Cost (LCC);

spare parts provisioning and specific design alternatives for each of the items undergoing the LORA.

The Commonwealth uses the LORAR to:

understand and evaluate the Contractor’s approach to meeting the LORA;

monitor and evaluate the Contractor’s design for the Mission System and Support System with respect to maintainability and the maintenance level allocations resulting from the LORA; and

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

1. INTER-RELATIONSHIPS

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

Life Cycle Cost Report and Model (LCCRM),

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

Reliability Centred Maintenance Analysis Report (RCMAR),

Task Analysis Report (TAR), and

Logistic Support Analysis Record (LSAR).

1. Applicable Documents

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

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

1. Preparation Instructions
   1. Generic Format and Content

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

The LORAR need not be developed as one document. It may be divided into volumes and sections, provided that the head document links all sub-documents 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. Introduction

The LORAR shall provide an overview of the LORA performed, the LORA model(s) used, a description of the maintenance alternatives considered, and the key recommendations resulting from the analysis.

* + 1. LORA Assumptions

The LORAR shall describe the assumptions made when performing the LORA, including the economic and non‑economic (eg, operational) LORA criteria.

* + 1. LORA Candidate Items

The LORAR shall include the list of LORA Candidate Items.

The LORAR shall describe the methodology used for determining which items were subject to LORA, including the relationship with LSA Candidate Items.

* + 1. LORA Models

The LORAR shall identify the source of data for LORA models when not sourced from the LSAR.

The LORAR shall identify and describe the LORA model or models that were used for conducting LORA(s), the class(es) of LORA that were performed, and the costing model used. There are three classes of LORA, including system or end-item analysis, subsystem or item analysis, and specific aspects of repair analysis.

Note: The LORA model(s) should reflect the Commonwealth’s maintenance philosophy and support concept, as described in the Operational Concept Document (OCD), Function and Performance Specification (FPS), or separate reference. The Contractor should ensure that the model is verified by the Commonwealth.

The LORAR shall, for each applicable LORA Candidate Item, identify:

the applicable LORA tasks undertaken;

which LORA model was used for the LORA Candidate Item; and

justifications for any non-economic considerations that may impact decisions derived from the economic considerations.

* + 1. LORA Recommendations

The LORAR shall describe the Contractor's level of repair or discard recommendation for each LSA Candidate Item.

The LORAR shall describe the sensitivity analysis undertaken.

The LORAR shall describe the recommendations from sensitivity analysis.

The LORAR shall describe recommendations to the equipment designer to address LORA considerations.