DATA ITEM DESCRIPTION

1. DID NUMBER: -
2. TITLE:  INTEGRATED RELIABILITY, MAINTAINABILITY, AND TESTABILITY PROGRAM REPORT
3. DESCRIPTION and intended use

The Integrated Reliability, Maintainability and Testability (IRMT) Program Report (IRMTPR) describes how the methodologies and processes of the IRMT Program have been developed and implemented to meet the requirements of the Contract.

The Contractor uses the IRMTPR to:

describe the activities conducted as part of the IRMT engineering program for each level of the Mission System design, including any specific analysis techniques employed; and

describe how the IRMT engineering program activities have addressed the IRMT requirements of the Contract.

The Commonwealth uses the IRMTPR to:

understand and evaluate the Contractor’s approach to meeting the IRMT engineering program; and

identify and understand the Commonwealth’s involvement in the Contractor’s IRMT engineering program, including the monitoring of the Contractor’s IRMT engineering program.

1. INTER-RELATIONSHIPS

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

Systems Engineering Management Plan (SEMP); and

Integrated Support Plan (ISP).

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

Logistic Support Analysis Record (LSAR);

Software Support Plan (SWSP); and

Growth Program Report (GPR).

1. Applicable Documents

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

|  |  |
| --- | --- |
| *Nil.* |  |

1. Preparation Instructions
   1. Generic Format and Content

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

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. Activities and Results

The IRMTPR shall:

describe the activities conducted as part of the IRMT engineering program for each level of the Mission System design, including any specific analysis techniques employed; and

describe how the IRMT engineering program activities have addressed the IRMT requirements of the Contract.

* + 1. Standards

The IRMTPR shall identify the standards utilised by the Contractor, and Subcontractors, to undertake the IRMT engineering program, including standards pertaining to hardware and Software.

The IRMTPR shall describe tailoring of the identified standards to meet the IRMT-related requirements of the Contract for both hardware and Software, including:

the tasks or processes undertaken from each standard, including the rationale for either including or excluding a task or process;

the outcomes resulting from implementing each of the tasks or processes;

how these outcomes relate to the requirements of the Contract and the Contractor’s solutions for the Mission System and Support System;

how these outcomes have been documented / captured;

the data used from other programs (eg, SE program), to enable these outcomes to be achieved; and

the tools utilised to undertake the tasks or processes; and

the expected role of the Commonwealth in reviewing the outcomes.

* + 1. Design and Analysis Products

The IRMTPR shall identify and describe each of the design and analysis products generated from each identified IRMT engineering program activity.

* + 1. Software Reliability, Maintainability and Testability

The IRMTPR shall provide a detailed description of how the Contractor has addressed reliability, maintainability and testability for Software.

The IRMTPR shall identify each of the Software design and analysis products generated from each identified IRMT engineering program activity.