DATA ITEM DESCRIPTION

1. DID NUMBER: DID-ILS-SUP-RSPL-
2. TITLE: recommended spares PROVISIONING LIST
3. DESCRIPTION and intended use

The Recommended Spares Provisioning List (RSPL) documents the range and quantity of Spares to be procured or developed and manufactured by the Contractor and, where applicable, delivered to the Commonwealth. The RSPL identifies the Spares required for Defence and Contractors (Support) to support the Mission System and Support System throughout the Life-of-Type (LOT). The RSPL also provides details associated with the development of the Spares-optimisation model, the results of the Spares-optimisation analysis activities, and the executable files for the Spares-optimisation model.

The Contractor uses the RSPL to:

summarise the outcomes that resulted from implementing the Approved Supply Support Development Plan (SSDP) or Integrated Support Plan (ISP), as applicable, including undertaking Spares-optimisation modelling;

document the Spares-optimisation model and the results of any Spares-optimisation analysis activities undertaken;

advise the Commonwealth of the recommended set of Spares required to enable the in-service support of the Mission System and Support System Components; and

assist with demonstrating to the Commonwealth that the Contractor’s design for both the Mission System and the Support System represents a minimum Life Cycle Cost (LCC) solution.

The Commonwealth uses the RSPL to:

assist with the evaluation of the Contractor’s design for the Support System;

understand, evaluate and monitor the Contractor’s scope of work under the Contract with respect to Spares-optimisation, procurement and delivery;

understand the range and quantity of Spares to be procured by the Commonwealth under the Contract and/or from other sources; and

enable the Commonwealth to undertake Independent Verification and Validation (IV&V) of the RSPL.

1. INTER-RELATIONSHIPS

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

Integrated Support Plan (ISP); and

Supply Support Development Plan (SSDP).

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

Contract Work Breakdown Structure (CWBS);

Life Cycle Cost Management Plan (LCCMP);

Support System Technical Data List (SSTDL);

Support and Test Equipment Provisioning List (S&TEPL);

Training Equipment List (TEL);

Software Support Plan (SWSP);

Verification and Validation Plan (V&VP); and

Logistic Support Analysis Record (LSAR).

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

The data item shall comply with the general format, content and preparation instructions contained in the CDRL clause 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. General Requirements

The RSPL shall provide sufficient detail to enable the Commonwealth to understand:

the Spares-optimisation model(s) developed by the Contractor, and

the Spares-optimisation analysis activities undertaken by the Contractor.

Unless otherwise specified in the Contract, the RSPL shall address Spares requirements for:

the Commonwealth; and

the Contractor (Support) and Subcontractors (Support).

* + 1. Spares-optimisation Model Development

The RSPL shall describe the Spares-optimisation model(s) that has been developed by the Contractor in accordance with its Approved SSDP or Approved ISP, whichever is the governing plan under the Contract, including:

definitions of all terms, acronyms, and model parameters used;

any assumptions underpinning, or limitations with, the Spares-optimisation models, including:

the scope of the Mission System that has been modelled, including the indenture level of the physical build structure for the Mission System;

the modelling of the operational concepts and Rate of Effort (ROE) for the Mission System (as documented in the Operational Concept Document (OCD)); and

the modelling of the Support System (including Commonwealth, Contractor (Support) and Subcontractor (Support) elements), including any departures from the Support System Functional Baseline and any shortfalls with respect to Support System Components;

any departures from the planned data sources;

any departures from the build structure of, or any of the assumptions underpinning:

the Contract Work Breakdown Structure (CWBS);

the Logistic Support Analysis Record (LSAR);

the Life Cycle Cost (LCC) model(s); and

any other models utilised by the Contractor to model the Mission System and/or the Support System (eg, Level Of Repair Analysis model); and

the input data used to build the Spares-optimisation model(s), including:

the source of the data,

the date that the data was first generated,

if the data is an estimate, the nature of the estimate; and

the justification for the use of the data. Examples of the data that should be justified include Turn-Around Time (TAT) data, Administration and Logistics Delay Time (ALDT) data, and reliability and maintainability data.

* + 1. Spares-optimisation Analysis Activities and Outcomes

The RSPL shall describe the Spares-optimisation analysis activities that have been undertaken by the Contractor.

The RSPL shall describe the sensitivity analyses conducted and results obtained, including results obtained to quantify the impact of varying:

reliability and maintainability values;

operational parameters, such as monthly rate of effort; and

ALDT.

The RSPL shall describe the trade-off analyses conducted and results obtained.

The RSPL shall describe the analysis activities and outcomes obtained from conducting:

steady-state Spares-optimisation modelling; and

endurance / Contingency Spares-optimisation modelling.

The RSPL shall describe the approach adopted by the Contractor to ensure that the Contractor’s Spares recommendation minimises LCC, while still satisfying the Mission System and Support System Functional Baselines.

* + 1. Spares-optimisation Model

The RSPL shall include the data files for the Spares-optimisation model(s) in a form that does not require the Commonwealth to separately key the data into the Spares-optimisation model(s).

Where the Spares-optimisation modelling tool or software used by the Contractor is not held by the Commonwealth, the RSPL shall include:

executable input files for the Spares-optimisation model; and

sufficient details of the Spares-optimisation modelling tool or software to enable the Commonwealth to undertake IV&V of the Spares-optimisation model.

* + 1. Spares Recommendation

The RSPL shall provide the following information (using sub-reports and cross-references as appropriate) for the recommended Spares:

a specific record for each unique type of Spare (ie, each line item);

identification details, including:

item name / provisioning nomenclature, including the model or type;

NATO Stock Number (NSN), if known, or if the Spares require codification;

manufacturer’s name and NATO Commercial and Government Entity (NCAGE) code;

manufacturer’s reference number / part number; and

manufacturer’s address;

details describing the nature and use of each line item, including:

Work Breakdown Structure (WBS) identification, Functional Group Code (FGC), or allocated LSA Control Number (LCN), where applicable;

when a LSAR is required in the SOW, the End Item Acronym Code and Useable on Code for each applicable type or model of the parent system;

standards / specifications reference number(s);

the nature of the Spare (ie, repairable, consumable);

the level(s) of maintenance where the Spare will be required; and

shelf life, for Spares with finite storage lives;

whether the Spares are safety critical components, including an annotation of the criticality and how the items are managed (eg, serial number tracking);

identification of those Spares that require special handling because:

of security reasons;

they contain Problematic Substances; and/or

they are fragile or sensitive;

the recommended quantity of Spares by level of maintenance / location, including Commonwealth, Contractor (Support), and Subcontractor (Support) locations (noting that the Contract may allow for the Commonwealth to elect to own specific Spares that would be used by support contractors);

total quantity of Spares that is recommended for procurement by the Commonwealth through the Contract, including subordinate quantities against each of the following:

peacetime requirements;

deployment requirements;

Insurance Spares; and

Reserve Stockholding Levels (which may include quantities from the previous two subordinate quantities);

provisioning information for each line item of Spares, including:

a unit price, which shall be the Contractor’s most favoured customer price for the delivery of that Spare;

source currency, for the unit price for the line item;

customs duties and other government duties, as applicable;

a total price for each line item;

the provisioning lead time, and the identification of any Long Lead Time Items;

when applicable, the Economic Order Quantity and the recommended maximum and minimum holding levels at each level of maintenance;

the delivery location; and

a recommended delivery date; and

recommendations for Spares to be procured by the Commonwealth from sources external to the Contract, including for the purposes of standardisation or offsetting with Spares that are already in the Commonwealth inventory.