**Data Item Description**

**Product Support Analysis**

**ILS-080-020**

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| **DATA ITEM DESCRIPTION** |
| 1. **TITLE**

Product Support Analysis | 1. **IDENTIFICATION NUMBER**

ILS-080-20 |
| 1. **DESCRIPTION / PURPOSE**

The Product Support Analysis (PSA) Report must provide the logic and rationales used to identify equipment and components that require detailed PSA and list the candidates for PSA. The identified equipment and components that are critical to meeting the Ship’s Availability, Maintainability and Reliability (ARM) metrics during the vessel’s lifecycle are as stated in the Statement of Work (SOW). The PSA shall also produce a relational database holding the relevant logistical and ARM data for each identified piece of equipment. |
| 1. **REFERENCES**

Attachments: NilReferences: This DID must be read in conjunction with the appropriate paragraphs of the Statement of Work, Subcontract Data Requirements List and any references cited in the DID. |
| 1. **FORMAT**

The following formatting guidelines must be considered when preparing the deliverables.* 1. Unless a specific template is provided by VSY, the deliverables may be prepared in Supplier’s format upon review and approval by VSY.
	2. The format shall not impose any restriction on searching, editing, copying, or printing.
	3. The information shall be provided in English and in French, if available.
	4. PSA Candidates Report must be prepared in the Supplier's format. Electronic copies of the PSA Candidates Report that are delivered must be provided in a format compatible with the MS Office suite. Final copies of the PSA Candidates Report delivered must also be in PDF Format. The PSA Candidates Report must include the following sections:
		1. Title Page;
		2. Table of Contents;
		3. Document Control Log;
		4. Revision Record;
		5. Subject Matter;
		6. Notes; and
		7. Appendices.
	5. Title Page - The Title page must contain the following information:
		1. Title: PSA Candidates Report – “Vessel” project;
		2. Contract No: XXXXXXXXXXXX;
		3. Prepared By: Supplier’s name and address; and
		4. Authenticated By: Contractor approval signature(s) and date.
	6. Table of Contents - The Table of Contents should list the title and page number of each titled paragraph and subparagraph, figure, table and appendix.
	7. Document Control Log - The Document Control Log should contain three columns: Revision, Date and reason for the change.
	8. Revision Record - The Revision Record should contain a listing of paragraphs and corresponding pages which are affected by the change.
	9. Subject Matter - The plan text that addresses the material that is to be included in the document.
	10. Notes - This section must contain any general information that aids in the understanding of the document (e.g. Background information, glossary). This section should include an alphabetical listing of all acronyms, abbreviations and their meanings as used in the plan. This listing must be included with the final plan.
	11. Appendices - Appendices may be used to provide information published separately for convenience (e.g. charts, classified data). As applicable, each appendix must be referenced in the main body of the plan where the data would normally have been provided. Appendices may be bound as separate documents for ease of handling.
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| 1. **CONTENT**
2. The PSA Report must include a description of the integrated approach and methodology used for the analysis.
3. As a minimum, the PSA Report shall comprise two main chapters:
	* 1. Ship System Overview.
			+ Description of systems and their intended functions, including system block diagrams and equipment family tree.
			+ Description of subsystems and equipment comprising the system.
			+ Methodology and criteria for identifying equipment and components within the system or subsystem, which require PSA.
			+ Identification of equipment and components within the system or subsystem which require further PSA.
			+ Description of rationales, analysis conducted and basis for recommendations whether further PSA is to be conducted or not;
		2. PSA Candidates List, which is a list of equipment and components that are identified as critical to meeting the Ship’s ARM metrics as per the SOW. Each item on the list must include the following information:
			+ Reference to Configuration Items Index inside the Technical Data Package (TDP).
			+ Equipment Nomenclature.
			+ Rationales, analysis conducted and basis for recommendations.
			+ A relational database of the logistical and ARM data for each item on the PSA Candidates List. The data shall include:
				- Supplier / OEM Nomenclature;
				- Supplier / OEM Equipment Part Number;
				- NATO Stock Number (if applicable);
				- Mean Time Between Failure (MTBF);
				- Mean Time to Repair (MTTR);
				- Turnaround Time (TAT) for Repairable Items;
				- Adjusted TAT for Repairable Items;
				- Procurement Lead Time for Non-Repairable Items;
				- Operational Manual Document Reference;
				- Maintenance Manual Document Reference;
				- Special Tools and Test Equipment (STTE);
				- Obsolescence Notice;
				- Warranty Info;
				- Maintenance Plans and
				- Spare Parts.
		3. Analysis and conclusion of the ARM data against the Ship’s life cycle ARM requirements as per the SOW.
		4. Contractor recommendations for any additional analysis.
4. The PSA Report shall include all information required for general understanding and shall define all special terms and acronyms used.
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