**Data Item Description**

**Reliability Analysis Report**

**ILS-076-030**

Prepared by: Vancouver Shipyards Co. Ltd.

2 Pemberton Ave.

North Vancouver, BC, Canada, V7P 2R2

Tel: (604) 988-3111

Fax: (604) 984-1636

© Vancouver Shipyards Co. Ltd. 2016

.

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

Reliability Analysis Report | 1. **IDENTIFICATION NUMBER**

ILS-076-030 |
| 1. **DESCRIPTION / PURPOSE**

The purpose of this DID is to define the Reliability Analysis Report performance of the equipment on board the Ship. |
| 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.
 |
| 1. **CONTENT**
2. The Report must include the following information, as a minimum:
	* 1. Executive summary covering the significant elements of the report;
		2. An Impact assessment of any Engineering Changes to the Ship systems described in the Design RAR and an analysis, if required, to demonstrate that the reliability of the affected system has not been negatively impacted;
		3. A description of each of the Ship systems analysed. The report must describe the system’s criticality to the mission as well as the extent to which the system’s performance may degrade without affecting the function(s) required to perform the mission;
		4. A description of the reliability block diagrams and how they have been developed including assumptions made, calculations used and the source of data used, including its associated level of confidence.
3. The report must discuss the reliability assessment results of each analysed system. For each analysed system the critical failures must be identified, their impact on system functionality assessed, and actions mitigating the probability of the failure and / or the impact must be recommended. These recommendations are to be actioned as per the Reliability Assessment Rules in the Integrated Logistic Support Plan (ILSP).
4. The report must clearly define the systems and subsystems usage including assumptions made, the input data used and the calculations used.
5. The Report scope and depth for each system analysed and results provided must, as a minimum, be equivalent to the scope and depth contained in the Design Reliability Assessment Report provided as GFI.
 |