File No. - N° du dossier W8472-235880

ANNEX A

STATEMENT OF WORK FOR THE

GALLEY IMPROVEMENT

FOR THE

VICTORIA CLASS SUBMARINE MODERNIZATION

CONTRACT NO. W8472-235880



NOTICE

This documentation has been reviewed by the technical authority and does not contain controlled goods. Disclosure notices and handling instructions originally received with the document must continue to apply.

AVIS

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Original 3 March 2023

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1 SCOPE

1.1 Purpose

- 1.1.1 This Statement of Work (SOW) specifies the work and technical performance requirements to be carried out by the Contractor to provide to Canada's Department of National Defense (DND), hereafter referred to as Canada with galley improvements and associated data to the original installed at build galleys on the Royal Canadian Navy's (RCN) *Victoria* Class Submarines.
- 1.1.2 Canada requires an improved galley that will replace and modernize the old and under-performing galley counters, storage, refrigerator, juice dispensers and cooking equipment that fits within the existing galley footprint without significant modification to any existing piping or electrical cabling. The modernized elements may be of custom design, military off the shelf (MOTS), commercial off the shelf (COTS) or modified MOTS/COTS.

1.2 Background

1.2.1 The RCN's four VCS, *HMCS Chicoutimi* (CHI), *HMCS Victoria* (VIC), *HMCS Windsor* (WSR) and *HMCS Corner Brook* (COR) were designed in the 1980's which were built and delivered in the late 1980's and early 1990's. The current galley configuration is shown in Figure 1 below.

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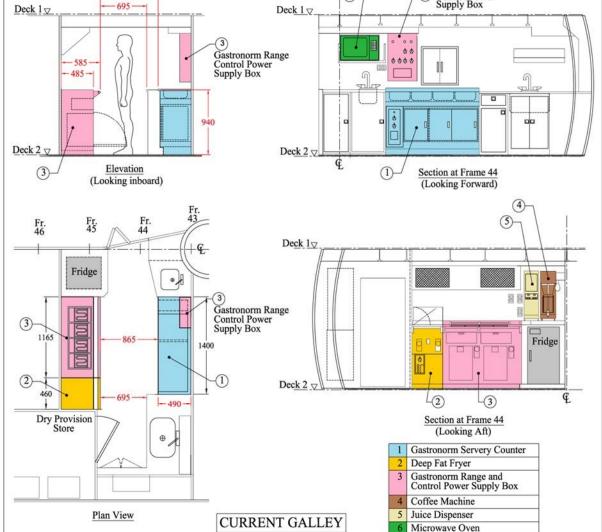


Figure 1-Current Galley Configuration Layout

The current galley's capability has degraded as some of the existing equipment is not performing as required (oven, hot plate units) or is no longer used as intended (deep fryer, milk dispenser, juice dispenser). As such, galley staff have resorted to buying their own equipment to supplement the existing equipment (induction cook top, a refrigerator with drawers as opposed to a door, etc.). The current galley has storage, counters and equipment which are obsolete or not used as intended and need to be replaced.

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1.3 Galley Improvement Project Objective

1.3.1 The fundamental objective of the Galley Improvement Project is to provide a modernized functional galley which fits within the existing galley footprint.

1.4 Acronyms and Abbreviations

CA C CCM C CCP C CDR C CDRL C CEPA C CEIL C	Action Item List Contract Authority or Contract Award Contract Closure Meeting Contract Change Proposal Critical Design Review Contract Data Requirements List Canadian Environmental Protection Act
CCM CCP CCDR CCDRL CCEPA CCEIL CCEIL CC	Contract Closure Meeting Contract Change Proposal Critical Design Review Contract Data Requirements List Canadian Environmental Protection Act
CCP C CDR C CDRL C CEPA C CEIL C	Contract Change Proposal Critical Design Review Contract Data Requirements List Canadian Environmental Protection Act
CDR C CDRL C CEPA C CEIL C	Critical Design Review Contract Data Requirements List Canadian Environmental Protection Act
CDRL C CEPA C CEIL C	Contract Data Requirements List Canadian Environmental Protection Act
CEPA C	canadian Environmental Protection Act
CEIL C	
CIII	Contract End Items List
СП	IMCS Chicoutimi
CI C	Configuration Item
CM C	Configuration Management
CMP C	Configuration Management Plan
C of C C	Certificate of Conformance
COR H	IMCS Corner Brook
COTS C	Commercial Off The Shelf
CSA C	Configuration Status Account
DA D	esign Authority
DD D	etailed Design
DEM D	ata Exchange Management
DID D	ata Item Description
DND D	epartment of National Defence
DOD D	epartment Of Defence
DSS D	Pepot Spares Sets
EAR E	ngineering Analysis Report
EBS E	quipment Breakdown Structure
	ingineering Change Process
ERN E	quipment Reference Number
	irst Article System
_	irst Article Units
	irst Article System Design
FAT F	actory Acceptance Testing

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FCA	Functional Configuration Audit
FOC	First of Class
FOS	Follow-On-Shipset
FMF	Fleet Maintenance Facility
FPR	Final Project Review
FSR	Field Service Representative
FT	Functional Test
GFI	Government Furnished Information
GQA	Government Quality Assurance
HAT	Harbour Acceptance Testing
HAZMAT	Hazardous Material
HFX	Halifax
HMCS	Her Majesty's Canadian Ship
IAW	In Accordance With
ILS	Integrated Logistics Support
ILSM	Integrated Logistics Support Manager
IR	Issue Register
ISW	Installation, Setting to Work, Testing And Acceptance
ISO	International Organization of Standardization
ITR	Initial Technical Review
MCN	Material Change Notice
MRI	Master Record Index
MSDS	Material Safety Data Sheet
MRB	Material Review Board
MSDS	Material Safety Data Sheet
MTBF	Mean Time Between Failures
NPMS	Naval Preventive Maintenance Schedules
OBQT	On-Board Qualification Tests
OEM	Original Equipment Manufacturer
PCA	Physical Configuration Audit
PD	Preliminary Design
PDF	Portable Document Format
PDR	Preliminary Design Review
PE	Project Engineer
PHST	Packaging, Handling, Storage and Transportation
PKO	Project Kick Off
PLN	Plan
PM	Project Manager
PMP	Project Management Plan

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PPB	Provisioning Parts Breakdown				
PPD	Project Principal Designer				
PRCD	Procedure				
PRM	Progress Review Meeting				
PRR	Production Readiness Review				
PS	Project Schedule				
PSPC	Public Services and Procurement Canada				
PSR	Project Status Report				
QA	Quality Assurance or Quality Audits				
QAA	Quality Assurance Authority				
QAR	Quality Assurance Representative				
QMS	Quality Management System				
RCN	Royal Canadian Navy				
RMP	Risk Management Plan				
RR	Requirements Review				
RSPL	Recommended Spare Parts List				
RPT	Report				
RVCRM	Requirements Verification Cross Reference Matrix				
SBR	System Boundaries Report				
SDS	Safety Data Sheets				
SME	Subject Matter Expert				
SOQR	Statement of Quality Requirements				
SOW	Statement of Work				
SRCL	Security Requirements Check List				
SRR	System Requirements Review				
SS	System Specification				
SSMRS	Standard Ship Maintenance and Repair Specification				
SSSPEC	Sub-System Specification				
SS/SSPEC	System/Sub-System Specification				
STW	Set-to-Work				
TA	Technical Authority				
TDP	Technical Data Package				
TM	Technical Manual				
TRR	Test Readiness Review				
TSOR	Technical Statement of Requirement				
WBS	Work Breakdown Structure				
WSR	HMCS Windsor				
-					

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WHMIS	Workplace Hazardous Material Information System	
VCRM	Verification Cross Reference Matrix	
VCS	S Victoria Class Submarines	
VIC HMCS Victoria		
VISSC	Victoria In-Service Support Contract	

1.5 Terminology

- 1.5.1 Allocation Baseline The initial approved allocated configuration identification that orientates documentation for a Configuration Item (CI), describes the functional and interface features that are allocated from those of the higher level CI, and describes the verification to demonstrate that the specified features that can be achieved. See also Configuration Baseline, Functional Baseline, and Product Baseline.
- 1.5.2 Analysis an element of verification that utilizes established technical evaluation or mathematical models or simulations, algorithms, calculations, charts, graphs, representative data, or other scientific principles and procedures to provide evidence that stated requirements are met. See also Certification, Demonstration, Inspection, Test, and Verification.
- 1.5.3 Baseline A configuration identification document or set of such documents formally designated (by the Government) and fixed at a specific time during a configuration item's life cycle. They are established at those points in the project where it is necessary to define a formal departure point for control of future changes in performance, design, production, and related technical requirements. For configuration management purposes there are three baselines, which are normally established chronologically as follows: functional baseline, allocation baseline, and product baseline.
- 1.5.4 Certification an element of verification that utilizes already existing, previously completed, detailed, and customer approved qualification tests, including procedures and results, for products or components of products determined to be Military-off-the-Shelf (MOTS) or Commercial-off-the-Shelf (COTS), to provide evidence that the stated requirements are met. See also Analysis, Demonstration, Inspection, Test, and Verification.
- 1.5.5 Configuration Baseline a fixed reference established by defining and recording the approved configuration documentation for a system or an individual CI, including related documentation, at a milestone event or at a specified point in the life cycle, thus offering protection from unwarranted and unwanted changes. See also Allocated Baseline, Functional Baseline, and Product Baseline.
- 1.5.6 Configuration Item (CI) An item identified by its functional and physical characteristics for the purpose of monitoring, change control and auditing.

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- 1.5.7 Demonstration an element of verification consisting of actual operation, adjustment, or re-configuration of items to provide evidence through observation under specific scenarios that the requirements are met. The demonstration may require some simple quantitative measurements such as time to perform tasks or dimensions. See also Analysis, Certification, Inspection, Test, and Verification.
- 1.5.8 Functional Baseline the approved documentation describing the performance characteristics (functional, inter-operability, and interface features) of a system or top level CI and the verification to demonstrate that the performance requirements can be achieved. See also Allocated Baseline, Configuration Baseline, and Product Baseline.
- 1.5.9 Functional Configuration Audit verifies the CIs performance against the approved Functional and Allocated Baselines. See also Physical Configuration Audit.
- 1.5.10 Inspection an element of verification not involving the use of special tools and gauges. The inspection is an examination of a product design, product, process or installation. See also Analysis, Certification, Demonstration, Inspection, Test and Verification.
- 1.5.11 Product Baseline The initial approved or conditionally approved product configuration identification that describes the configuration of a CI during production, utilization, and support phases of the equipment life cycle. See also Allocated Baseline, Configuration Baseline, and Functional Baseline.
- 1.5.12 First Article System (FAS) A system/item that is produced to be tested in support of that system's/item's qualification process. Multiple FAS's may be produced to support parallel qualification testing efforts in an effort to shorten the schedule for system/item qualification.
- 1.5.13 1st line Maintenance 1st line maintenance is defined as the preventive and corrective maintenance normally performed by ship's staff.
- 1.5.14 2nd line maintenance 2nd line maintenance is defined as the preventive and corrective maintenance normally performed by Fleet Maintenance Facility (FMF) staff.
- 1.5.15 On-Board Spares (OBS) Spares carried on board to support 1st line Maintenance.
- 1.5.16 2nd Line Spares (2L Spares) Spares carried at the Fleet Maintenance Facility (FMF) to support 2nd line Maintenance.
- 1.5.17 Shipset Full Rate Production system/item to be installed on a platform (ship or submarine).

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1.5.18 Depot Spare Shipset- Full Rate Production system/item to be kept in the Supply Depot until drawn to replace a Shipset.

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- 1.5.19 Installation The activities for a system/item that include removing the system/item that is being replaced, preparing the location for the installation of the new system/item, physical installation of the new system/item and connecting it up to any required power, hydraulics, cooling/heating sources, and connecting into any higher level system of which it is a part.
- 1.5.20 Set To Work The activities for a system/item that take place after installation and prior testing that initialize and bring the system/item on line and prepare it for follow on harbour and sea acceptance testing.
- 1.5.21 First Of Class (FOC) Shipset First installation of a system/item on the 1st target platform (ship or submarine).
- 1.5.22 On-Board Qualification Tests (OBQTs) Qualification tests that could only be carried out once the system/item has been installed and set-to-work.
- 1.5.23 Follow-On-Shipset (FOS) 2nd, 3rd, 4th, etc. installation of a system/item on follow on platforms of the same class.
- 1.5.24 Installation and Set-to-Work (ISW) see the Installation and Set-to-Work descriptions above.
- 1.5.25 Type Approval -Type Approval is an impartial certification system that provides independent third-party Type Approval Certificates attesting to a product's conformity with specific standards or specifications. It is based on design review and type testing or, where testing is not appropriate, a design analysis.

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2 APPLICABLE DOCUMENTS

2.1 Government Documents

2.1.1 The prescribed versions of the following documents are a part of this specification to the extent specified herein.

Table 1: List of Government Documents

Item	Document Number	Title
1.	Drawing # 001279777	Galley Arrangement
2.	Drawing # 001279778	Galley Equipment Stowage
3.	Drawing # 001280036	Seat Galley Equipment
4.	Drawing # 001280625	Seat Galley Range Controller
5.	Drawing # 001280693	Seat Galley FR Heater
6.	Drawing # 001281386	Filter Grease Galley
7.	Drawing # 001281589	Arrangement of Electrical Equip. Galley Cover and MOD Sheet
8.	BRF 1966(25)01	Galley Range
9.	BRF 1966(25)02	Deep Fat Fryer
10.	BRF 1966(25)05	Servery Counter
11.	BR 3021(1)	Shock Manual
12.		Requirements Elicitation Document (RED), BMT Fleet Technologies dated August 2021
13.		NETE Study which includes: 1. Options Analysis Phase 1 2. Options Analysis Phase 2 Recommendations Report for a New Galley Design dated November 2017
14.	DefStan 08-160	Requirements for Electrical Installations, Issue 1, June 2003
15.	DefStan 00-250 Part 3 Section 12	Operations, Maintenance and Support
16.	DefStan 00-250 Part 3 Section 9	People Characteristics
17.	a. CEPA: Schedule 1, Toxic Substances List	Canadian Environmental Protection Act, 1999
	b. Appendix 2	Hong Kong Convention
18.	D-LM-008-002/SF-001	Specification For Marking For Storage And Shipment

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Item	Document Number	Title
19.	D-01-400-001/SG-000	Engineering Drawing Practices for Class Drawing and Technical Data List
20.	C-03-000-000/NQ-E01	Treasury Board hazmat policy & HFX Class G-1 spec (see paras 33,41 & 42)
21	A-LM-505-001/AG-001	Packaging Handling Storage and Transportability

2.2 Non-Government Documents

- 2.2.1 Where a section of this SOW references a standard, the whole standard may or may not apply. Where the whole standard does not apply, the tailoring required by the Project Manager (PM) or Technical Authority (TA) will be indicated in the section. The Contractor must specify the extent of his compliance to the referenced standard in his proposal.
- 2.2.2 If any referenced standard has been superseded by a new revision or it has become obsolete and it has been replaced by a new standard or it has not been replaced, then the Contractor must propose the use of the latest revision or replaced standard or an equivalent standard respectively.

Table 2: List of Non-Government Documents

Item	Standard	Title
1.	ISO21500:212	Guidance on Project Management
2.	IEEE 15288	System Engineering
3.	ISO 9001:2008	Quality Management System -
		Requirements
4.	EIA-649-A	National Consensus Standard for
		Configuration Management
5.	MIL-STD-881 C	Work Breakdown Structures for Defense
		Material Items
6.	MIL-STD-1388 1A	Logistic Support Analysis
7.	MIL-STD-1388 2B	DOD Requirements for a Logistic Support
	30 May 1997	Analysis Record
8.	MIL-HDBK-881A	Department of Defence Handbook
	30 July 2005	Work Breakdown structures for Defence
		Materials Items
9.	MIL-STD-973	Configuration Management
10.		Bunn 23050.6001 Coffee Maker
		Specification Sheet

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Item Standard		Title		
11.		HP24RO-3-5 Perlick 2 Dwr Refrigerator		
		Specification Sheet (installed onboard		
		HMCS WINDSOR)		
12.		Silverking Majestic Series Milk		
		Dispensers Models: SKMAJ21, SKMAJ2,		
		SKMAJ3 115V/60Hz		
		Specification Guide		

2.3 Order of Precedence

- 2.3.1 In the event of a conflict between the documents in Tables 1 and 2, the SOW and the TSOR, the following Order of Precedence must apply:
- 2.3.1.1 SOW;
- 2.3.1.2 TSOR; and
- 2.3.1.3 The documents in Table 1 and Table 2.
- 2.3.2 In the event that the Contractor cannot resolve a precedence issue, the Contractor is to inform Contract Authority (CA) who will in turn seek resolution from the Technical Authority (TA).

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3 GENERAL REQUIREMENTS

3.1 Scope of Work

- 3.1.1 The Contractor must design/customize, develop, procure, manufacture, integrate, test, qualify, and deliver the equipment associated with the galley improvements and associated data in accordance with the requirements detailed in this SOW and Annex "B" Technical Statements of Requirements (TSOR).
- 3.1.2 As well, the Contractor must attend and support the installation and set-to-work and harbour acceptance testing of the galley improvements in accordance with the contract.
- 3.1.3 The Contractor must deliver the galley improvements data as identified in Appendix 1 Contract Data Requirements List.

3.2 Deliverables and Tasks

- 3.2.1 General
- 3.2.1.1 The Contractor must supply the following deliverables and services in accordance with the requirements detailed in this SOW and Annex "B", TSOR:
- 3.2.2 Project Management
- 3.2.2.1 The Contractor must establish and maintain a Project Management (PM) capability to meet the requirements of the Contract. PM tasks are detailed in Section 4 of the SOW.
- 3.2.3 Galley Design
- 3.2.3.1 The Contractor must perform the galley design activities and any required engineering processes throughout the concept, development, certification and approval, full production, installation and set-to-work, and final tests of the Galley Improvement Project. Galley design and engineering tasks are detailed in Section 5 of the SOW.
- 3.2.4 Production
- 3.2.4.1 The Contractor must perform production activities as detailed in Section 6 of the SOW.
- 3.2.4.2 The Contractor must produce the improved galley as detailed in Section 6 of the SOW.

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3.2.4.3 Galley Deliveries. The Contractor must deliver improved galley First Article Shipset (FAS) and Follow On-Shipset (FOS) deliverables in the quantities identified in Table 3 below.

Item	FAS	FOS	Total
Improved Galley Deliverables	1	3	4

Table 3: Improved Galley Deliverables

- 3.2.4.4 The Contractor must produce improved galley On-Board Spares (OBS), FOS OBS, 2nd Line Spares (2L Spares) and Depot Spares as detailed in Section 6 of the SOW.
- 3.2.4.5 The Contractor must deliver improved galley FAS OBS, FOS OBS, 2L Spares, and depot spares sets in the quantities identified in Table 4 below:

Item	FAS OBS	FOS OBS	2L Spares	Depot Spares	Total
Improved Galley Spares Sets	1	3	2	2	8

Table 4 - FAS OBS, FOS OBS, 2L Spares, and Depot Galley Improvement Spares

Note: The spares sets are to be defined by the Contractor's Recommended Spare Parts Lists (RSPL) as approved by Canada.

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3.2.5 Installation and Set to Work and Harbour Acceptance Tests

3.2.5.1 The Contractor must execute improved galley Installation and Set to Work (ISW) and Harbour Acceptance Tests (HAT) as detailed in Section 7 of the SOW. This includes the number of instances of the provision of FSR support as identified in Table 5 below:

FSR Support	FAS
	Installations
Improved	1
Galley	

Table 5- FSR Support Instances

- 3.2.6 Quality Assurance. The Contractor must execute improved galley quality assurance tasks as detailed in Section 8 of the SOW.
- 3.2.7 Configuration Management. The Contractor must execute improved galley configuration management tasks as detailed in Section 9 of the SOW.
- 3.2.8 Integrated Logistics Support. The Contractor must execute the improved galley's Integrated Logistics Support tasks as detailed in Section 10 of the SOW.
- 3.2.9 Acceptance Processes. The Contractor must follow the improved galley Acceptance Process as identified in Section 11 of the SOW.

3.3 Assumptions

- 3.3.1 Equipment
- 3.3.1.1 The Deep Fat Fryer will be removed without replacement, and the vacant under counter space may be used (as necessary) to accommodate the new range, fridge, and if remaining space is available may become additional dry provision storage.
- 3.3.1.2 The Gastronorm Servery Counter, Gastronorm Range (and associated Control Power Supply) will be replaced with COTs equivalents. Where it is not possible for a COTs equivalent to meet the requirements, then modified COTs or a custom design with prior approval by DND will be acceptable.
- 3.3.1.3 The Coffee Machine, Milk Dispenser and Juice Dispenser will be removed without replacement.
- 3.3.1.4 The Microwave Oven and Refrigerator will be replaced, and a Water Dispenser will be added using COTs equivalents.

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- 3.3.2 Design and Engineering
- 3.3.2.1 The design and engineering effort associated with this project will include any changes to the galley space to accommodate the new equipment's mounting arrangements and ship's power interfaces and any custom built cabinetry (e.g. under counter cabinet to replace the deep fat fryer) and as necessary any modified COTS or custom designed replacements for the Range and the Servery

3.4 Constraints

- 3.4.1 Form, Fit, Function Compatibility
- 3.4.1.1 The improved galley must be form, fit and function compatible with the units that they are replacing. Changes to submarine systems, external to the improved galley, to which the improved galley is interfaced, will not be permitted.

3.5 Support Provided by Canada

- 3.5.1 Government Furnished Information (GFI)
- 3.5.1.1 Canada, on Contract Award, will provide to the Contractor the GFI identified in Table 1, Section 2 of this SOW.

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4 **PROJECT MANAGEMENT**

4.1 General

- 4.1.1 This section identifies the Contractor's obligation to establish and maintain a project management capability to meet the requirements of the Contract.
- 4.1.2 Organization
- 4.1.3 The Contractor must establish and maintain within its company structure a project management organization (referred to as the "Contractor's Project Management Organization") with suitable capability to perform the contract.
- 4.1.4 Project Manager (PM). The Contractor must have a qualified PM with a minimum of five (5) years project management experience in the last ten years, responsible for managing the work, to be carried out in the execution of this contract. The Contractor's PM must have the authority to plan, direct, control and make decisions for the Contractor with respect to the contract. The Contractor's Project Manager must be the main point of contact with Canada.

4.2 Project Planning

- 4.2.1 Project Management Plan (PMP)
- 4.2.1.1 The Contractor must, using best commercial practices, prepare and deliver a PMP in accordance with (IAW) CDRL-PM-01 and DID-PM-01.
- 4.2.1.2 The PMP must describe the Contractor's plan and processes for organizing, staffing, controlling, and directing the activities necessary to fulfill the requirements of this SOW.
- 4.2.1.3 The Contractor must manage the project IAW the approved PMP and its schedule.
- 4.2.2 Work Breakdown Structure (WBS)
- 4.2.2.1 The Contractor's PMP must reference the project's WBS. The Contractor must prepare and deliver a WBS in accordance with CDRL-PM-02 and DID-PM-02.
- 4.2.3 Project Schedule (PS)
- 4.2.3.1 The Contractor's PMP must reference a PS. The PMP must include all major tasks up-to level 3 applying the Critical Path Method in accordance with the reference at Section 2 Applicable Documents Table 2, Item 1. The Contractor must prepare, update and deliver a PS in accordance with CDRL-PM-03 and DID-PM-03.

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- 4.2.4 Data Exchange Management (DEM)
- 4.2.4.1 The Contractor's PMP must address the Contractor's DEM program to control access and delivery of Contract data and deliverables IAW the approved PMP.

4.3 Reporting and Communications

- 4.3.1 Progress Report (PR)
- 4.3.1.1 The Contractor must monitor progress and develop and deliver PRs, in advance of the Section 4.5 Project Review Meetings (PRM), IAW CDRL-PM-04 and DID-PM-04.
- 4.3.1.2 The PR must focus on issues, concerns and the action taken to address issues and concerns.
- 4.3.1.3 The Contractor must use the PR as the basis for developing the agenda for the PRM.
- 4.3.2 Problem Reporting
- 4.3.2.1 Should an issue arise that could cause a delay in the schedule or impact the contract, the Contractor must advise Canada, by e-mail within three (3) working days of the issue arising. Upon such notification Canada will advise whether an unscheduled meeting or other actions are required.

4.4 Security

- 4.4.1 Security Requirements. Contract requirements for personnel and facilities security clearances are identified in the contract's Annex D -Security Requirements Check List (SRCL).
- 4.4.2 Access to Canada's Facilities. The Contractor may be provided site visit access to Canada's facilities, on an as required basis and non-interference basis, to allow the Contractor to view systems and obtain relevant data. Site visits may also be used to interview Canada's system subject matter experts (SMEs) to determine or confirm equipment functionality and operational parameters.
- 4.4.3 Visit Request Notice. The Contractor must provide at least eight (8) weeks' notice for any submarine site visits.

4.5 Project Meetings and Reviews

4.5.1 Administrative Support. The Contractor must host and attend project meetings and reviews as required by this SOW, at the Contractor's facility or elsewhere

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as agreed to by Canada. For all reviews and meetings hosted by the Contractor, the Contractor must:

- 4.5.1.1 Arrange the venue;
- 4.5.1.2 Co-ordinate with Canada as appropriate;
- 4.5.1.3 Provide all administrative facilities and presentation equipment;
- 4.5.1.4 Ensure that qualified Contractor and subcontractor personnel attend the reviews or meetings;
- 4.5.1.5 Ensure and report that action items and decisions under the control of the Contractor as a result of the various meetings and reviews are implemented where applicable; and
- 4.5.1.6 Maintain files, records, documents of all reviews and meetings.
- 4.5.2 Supporting Documentation.
- 4.5.2.1 The Contractor must prepare update and submit in source and .PDF format, at least five (5) working days in advance of each type of review or meeting, any supporting documentation required to support the review or meeting.
- 4.5.3 Meeting Agenda
- 4.5.3.1 The Contractor must prepare and submit a review or meeting agenda IAW CDRL-PM-05 and DID-PM-05. An electronic copy of the agenda will be submitted to Canada's attendees at least five (5) working days in advance of each type of review or meeting except in the case of unscheduled meetings in which case the Contractor must submit an electronic copy of the agenda in an agreed to time frame prior to the meeting. Canada and the Contractor must mutually agree to the contents of the agenda.
- 4.5.4 Minutes
- 4.5.4.1 The Contractor must record, produce, deliver and revise, as required, the minutes for all reviews and meetings IAW CDRL-PM-06 and DID-PM-06. An electronic copy of the minutes will be submitted to Canada within five (5) working days of the review or meeting. Canada will advise the Contractor of any issues with the minutes with two (2) days of receiving the minutes. Minutes are accepted once signed by Canada.
- 4.5.4.2 No change to the project's SOW, TSOR(s), cost or schedule, as defined by the Contract, may be authorized by the minutes of a meeting. Such action may only be done with the explicit agreement of the CA.

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- 4.5.5.1 The Contract Authority (CA) may cancel any review or meetings at their discretion with a minimum of five (5) working days' notice. Rescheduling of meetings by the Contractor must be done only with the explicit agreement of Canada.
- 4.5.6 Action Item List (AIL)
- 4.5.6.1 The Contractor must maintain a historical, chronological and up-to-date list of issues and associated action items resulting from reviews, meetings, or correspondence between the CA and the Contractor in a format acceptable to the CA for the duration of the project.
- 4.5.6.2 The Contractor must develop, deliver and update the AIL IAW CDRL-PM-07 and DID-PM-07.
- 4.5.6.3 The Contractor must ensure that, once entered into the AIL, no entry is deleted.
- 4.5.6.4 The Contractor must include a subset of the AIL containing all open action items as an attachment to the PR.
- 4.5.6.5 The Contractor must, upon the request by Canada at any time, make a copy or reproduction of the most current AIL, or any portion thereof available to Canada.
- 4.5.7 Project Kick Off (PKO) Meeting
- 4.5.7.1 Within two (2) weeks of the Contract Award (CAwd), the Contractor must conduct a PKO at the Contractor's facility.
- 4.5.7.2 The PKO meeting must include but is not limited to, a review of the:
- 4.5.7.2.1 Project Deliverable Requirements;
- 4.5.7.2.2 Technical Requirements:
- 4.5.7.2.3 Project Schedule including Critical path activities;
- 4.5.7.2.4 Plan for activities during the following review period;
- 4.5.7.2.5 Risk management concerns and mitigation actions;
- 4.5.7.2.6 Issue management concerns and mitigation actions; and

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- 4.5.7.2.7 Any other contractual or programmatic issues associated with the project as mutually agreed between the TA, Contract Authority (CA) and the Contractor.
- 4.5.8 Progress Review Meetings (PRM)
- 4.5.8.1 The Contractor must coordinate and conduct PRMs with Canada, at a frequency to be mutually agreed between Canada and the Contractor. The first PRM must commence one month after the PKO meeting. The PRM must include but not be limited to a discussion of the project status against the items reviewed in the PKO review above. PRMs may be held by Teleconference, or when they coincide with Engineering Review, at the Contractor's facility.
- 4.5.9 Other Scheduled Meetings
- 4.5.9.1 The Contractor may identify through other requirements stipulated in this SOW, and the submission of his various Plans the necessity to schedule and conduct other meetings with Canada (e.g. Design/Engineering requirements/design reviews). The Contractor must identify and update as necessary, these meetings in the PS. Canada's approval of the PS will confirm Canada's intention to attend such meetings.
- 4.5.10 Unscheduled Meetings
- 4.5.10.1 Canada and or the Contractor (hereinafter referred to as the parties) must conduct unscheduled meetings as agreed to by the parties. When calling for and scheduling an unscheduled meeting, the party calling the meeting must provide the other party with reasonable advanced notice of the meeting.
- 4.5.11 Contract Closure Meeting (CCM)
- 4.5.11.1 The Contractor must hold the CCM with Canada at a time to be determined by Canada. This meeting must take place no later than one (1) year after acceptance of the last deliverable.

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5 **DESIGN AND ENGINEERING**

5.1 General

- 5.1.1 Engineering Organization, Management and Planning
- 5.1.1.1 The Contractor must establish and maintain within its company a discreet design and engineering organization (referred to as the "Contractor's Project Design and Engineering Organization") with the capability to perform the engineering work identified in the contract.
- 5.1.1.2 The Contractor must carry out design and engineering for the project in accordance best commercial practices.
- 5.1.1.3 The Contractor's project design and engineering organization and its plan to execute the project's engineering work must be described in the PMP, WBS and PS. The Contractor must conduct the design and engineering activities in accordance with the PS.
- 5.1.2 Project Principal Designer (PPD)
- 5.1.2.1 The Contractor must have a dedicated PPD responsible to the Contractor's PM to manage the design and engineering tasks required for this project. The Contractor's PPD must have the authority to plan, direct, control and make decisions for the Contractor with respect to the systems engineering tasks of this project.
- 5.1.3 Design and Engineering Tasks
- 5.1.3.1 During the conduct of this contract, the Contractor must conduct the following design and engineering tasks:
- 5.1.3.1.1 Research and recommendation of replacement equipment that will meet the requirements of the improved galley;
- 5.1.3.1.2 Design the equipment mounting arrangements and interfaces with other ship's systems (e.g. power);
- 5.1.3.1.3 Design of any custom cabinetry required and any modified COTS or custom equipment required by the improved galley design; and
- 5.1.3.2 Prepare and conduct design and engineering reviews and audits.

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5.1.4 Type Approval

Note: The COTS appliances may already be CSA (or equivalent) approved. The type approval is expected to be for any custom designed or modified COTS equipment and the mounting arrangements and electrical interfaces and whether these equipment are suitable for use in the marine environment.

5.1.4.1 The Contractor must have their Galley Improvement design and engineering type approved by an appropriate Marine Classification Society.

5.2 Galley Improvement Design

- 5.2.1 System Definition Objectives
- 5.2.1.1 The Contractor acknowledges that for the improved galley design the objectives of system definition are to:
- 5.2.1.1.1 Validate that the improved galley design requirements are complete and well formulated, both individually and in sets;
- 5.2.1.1.2 Ensure that the improved galley requirements are consistent with Canada's intent;
- 5.2.1.1.3 Ensure that both Canada and the Contractor have a common understanding of the improved galley requirements; and
- 5.2.1.1.4 Demonstrate convergence on, and achievability of, the improved galley requirements.
- 5.2.2 Boat Survey
- 5.2.2.1 The Contractor must, within two (2) months of contract award, conduct a boat survey. The purpose of this survey is to assist the Contractor with putting the Technical Statement of Requirements (TSOR), for the improved galley design into context and to allow the Contractor to confirm the system boundaries of the improved galley design. This boat survey is not to exceed one week. The Contractor must request the boat survey through Canada. Canada's Technical Authority (TA) will arrange for the boat survey with the RCN.
- 5.2.3 System Boundaries Report (SB RPT)
- 5.2.3.1 The Contractor, on completion of the boat survey, must, for the improved galley design develop and deliver a SB RPT in accordance with CDRL-ENG-01 and DID ENG-01.

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- 5.2.4 System Requirements Review Report (SRR RPT)
- 5.2.4.1 The Contractor, informed by the Boat Survey and the SB RPT must develop and deliver, for the improved galley design a SRR RPT in accordance with CDRL-ENG-02 and DID ENG-02.
- 5.2.5 System Requirements Review (SRR) Meeting
- 5.2.5.1 The Contractor must, within one (1) month of the boat survey, conduct with Canada a SRR meeting at the Contractor's facilities. This meeting will review the SRR Report and any recommended and agreed to changes to the TSOR for the improved galley design. Should there be agreed to changes to the TSORs, the contract will be amended to reflect these changes.
- 5.2.6 System/Subsystem Specifications (SS/SSSPEC)
- 5.2.6.1 The Contractor must develop and deliver a SS/SSSPEC meeting the requirements of each of the improved galley design TSOR IAW CDRL ENG-03 and DID-ENG-03. Where these items are COTs, their specification sheet shall suffice. Where the item is custom or modified then a SS/SSSPEC will be required.
- 5.2.7 System/Subsystem Design Document (SSDD)
- 5.2.7.1 The Contractor must, for each custom or modified item in the improved galley design, develop and deliver a SSDD meeting the requirements for each custom made item as identified in their SS/SSSPEC IAW CDRL-ENG-04 and DID-ENG-04.
- 5.2.8 Functional Baseline (FBL)
- 5.2.8.1 The Contractor must, for the improved galley design, submit a Contract Change Proposal (CCP) to establish the SS/SSPEC as the FBL for these items and hence the basis for the development and verification of these items.
- 5.2.9 Requirements Verification
- 5.2.9.1 The Requirements Verification Cross Reference Matrix (RVCRM) captures the design requirements, the requirements verification methodology (e.g. analysis, demonstration, inspection, test, similarity etc.) as requested and proposed in the Compliance Verification Matrix in Appendix TBD of this SOW for the improved galley design. It identifies the project developed objective evidence that proves that a requirement has been met. It is completed as the objective evidence becomes available and when complete the RVCRM provides a record that the design requirements have been met.

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5.2.10 Engineering Analysis Report (EAR)

- 5.2.10.1 The Contractor must develop and deliver, for the improved galley design in Contractor format, any EARs, for engineering analysis which is not subsequently covered elsewhere (e.g. in other Data Deliverables). The Contractor is to propose a schedule for the delivery of these EARs.
- 5.2.11 Requirements Verification Cross Reference Matrices (RVCRM)
- 5.2.11.1 The Contractor must develop and deliver, for the improved galley design, a RVCRM IAW CDRL-ENG-05 and DID-ENG-05.
- 5.2.12 Preliminary Design (PD)
- 5.2.12.1 The Contractor, for the improved galley design must develop a PD meeting the requirements of their respective SS/SSSPECs. This PD may be based on COTS, modified COTS or be of a new design.
- 5.2.13 Engineering Drawings and Associated Lists
- 5.2.13.1 Through the design process the Contractor must develop, update and deliver engineering drawings of the improved galley design in accordance with DID-ENG-00.
- 5.2.14 Equipment Breakdown Structure (EBS)
- 5.2.14.1 An EBS identifies and recommends potential Configuration Items (CIs) to Canada.
- 5.2.14.2 The Contractor must, for the improved galley design, develop and deliver an EBS IAW CDRL-ENG-06.
- 5.2.14.3 The Contractor must regularly update the EBS as the improved galley design evolves, clearly indicating where and how each element of the design is architecturally connected.
- 5.2.14.4 The Contractor must use the final EBS as part of the established Product Baseline configuration for the improved galley design.
- 5.2.14.5 The Contractor must build the improved galley design to the established Product Baseline configuration unless deviations and waivers have been approved by Canada.

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5.2.15 Obsolescence

- 5.2.15.1 The Contractor must ensure that the improved galley design does not include parts that have become obsolete or are expected to become obsolete within five (5) years after delivery of the first improved galley design.
- 5.2.16 Environment and Hazardous Materials Management
- 5.2.16.1 HAZMAT is defined as any substance capable of posing a risk to health, safety, property or environment when stored, handled or transported, and is so classified in regulations governing transportation. Hazardous materials include (but are not limited to) dangerous goods identified at the reference Section 2 Applicable Documents, Table 1 Item 17, a and b.
- 5.2.16.2 The Contractor must comply with all applicable environmental legislation, including the Canadian Environmental Protection Act (CEPA) and its regulations such as those listed in this section.
- 5.2.16.3 The Contractor, in developing the improved galley design must propose materials that are not hazardous. Canada will review and assess the proposed materials and approve them for use in the VCS.
- 5.2.16.4 To facilitate Canada's review and assessment of the Contractor's proposed material, the Contractor must provide a Material List (ML) and any associated Safety Data Sheets (SDS).
- 5.2.16.5 Where the Contractor cannot propose materials that are not hazardous, the Contractor must, only incorporate hazardous materials in the design of the improved galley with the agreement of Canada when no acceptable, less hazardous substitute is available.
- 5.2.16.6 Material List/Material Assessment
- 5.2.16.6.1 The Contractor must develop, deliver and update a list of all materials used in the improved galley design IAW CDRL-ENG-07 and DID-ENG-07. The purpose of this list is for the Contractor, to identify to Canada for review, the materials proposed to be incorporated into the improved galley design so that they may be assessed by Canada for use in submarines.
- 5.2.16.7 Safety Data Sheets (SDS)
- 5.2.16.7.1 The Contractor must, for any material assessed as Dangerous/Hazardous under Canada's Workplace Hazardous Material Legislation included in the improved galley design, deliver for inclusion in the submarine's Workplace Hazardous Material Information System (WHMIS) that material's associated SDS IAW CDRL-ENG-08 and DID-ENG-08.

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5.2.17	Proliminary Docian Poport (PD PDT)
5.2.17	Preliminary Design Report (PD RPT)

- 5.2.17.1 The Contractor must, for the improved galley design develop and deliver a PD RPT IAW CDRL-ENG-09 and DID-ENG-09.
- 5.2.18 Preliminary Design Review (PDR) Objectives
- 5.2.18.1 The Contractor acknowledges that the objectives of the PDR are to:
- 5.2.18.1.1 Permit the TA to closely review that Contractor's preliminary design;
- 5.2.18.1.2 Confirm that all subsystem building block designs satisfy their parent requirements;
- 5.2.18.1.3 Determine if the preliminary designs are mature and ready to proceed into detailed design;
- 5.2.18.1.4 Evaluate the progress, technical adequacy and risk resolution on a technical cost and schedule basis;
- 5.2.18.1.5 Establish the allocated baseline: and
- 5.2.18.1.6 Confirm that the approaches to the next level have been appropriately planned.
- 5.2.19 PDR Meeting
- 5.2.19.1 The Contractor must, within two (2) months of the SRR meeting, conduct a PDR meeting with Canada at the Contractor's facilities. The PDR meeting will review the PD RPT the improved galley design.
- 5.2.20 PDR Meeting Exit Criteria
- 5.2.20.1 The PDR will be considered successful and complete once PDR recommended and agreed to minuted actions with respect to changes to the preliminary design have been taken into account and the respective PD documentation has been updated to reflect these changes.
- 5.2.21 Detailed Design (DD)

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- 5.2.21.1 The Contractor, for the improved galley design, must develop a DD meeting the requirements of the improved galley design S/SSSPEC and any PD documentation that has been updated as a result of the PDR.
- 5.2.21.2 The Contractor, for the improved galley design, must develop and deliver a DD RPT IAW CDRL-ENG-10 and DID-ENG-10.
- 5.2.22 Critical Design Review (CDR) Objectives
- 5.2.22.1 The Contractor acknowledges that the objectives of the CDR are to demonstrate:
- 5.2.22.1.1 That all system specifications, drawing and software development documentation have been appropriately defined;
- 5.2.22.1.2 That building block end product designs satisfy their parent requirements;
- 5.2.22.1.3 That enabling product requirements have been adequately defined; and
- 5.2.22.1.4 That the building blocks are either ready for further development, or are adequately defined.
- 5.2.23 CDR Meeting
- 5.2.23.1 The Contractor must, within six (6) months of PDR, conduct a CDR meeting at the Contractor's facilities. The CDR meeting will review the DD Report for the improved galley design.
- 5.2.24 CDR Exit Criteria
- 5.2.24.1 The CDR will be considered successful and complete once CDR recommended and agreed to minuted actions with respect to changes to the DD design have been taken into account and the respective DD documentation has been updated to reflect these changes.
- 5.2.25 First Article System Design (FASD)
- 5.2.25.1 The Contractor must, for the improved galley design, develop a FASD meeting the requirements of the improved galley design SS/SSSPEC and any DD documentation that has been updated as a result of the CDR. These FASDs must be completed no later than two months after the CDR.
- 5.2.25.2 FAS Design Report (FASD RPT)
- 5.2.25.3 The Contractor must, for the improved galley design, develop and deliver a FASD RPTs IAW CDRL-ENG-11 and DID-ENG-11.

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- 5.2.25.4 Type Approval Report
- 5.2.25.5 The Contractor must, for the improved galley design, develop and deliver a Type Approval Report IAW CDRL-ENG-12, and in contractor format.

Note: It is recognized that most of the elements of the improved galley will be COTs. Sections 5.2.26, 5.2.27 and 5.2.28 below only applies to those elements of the improved galley that are of custom or modified design.

- 5.2.26 First Article Test Plan (FAT PLN)
- 5.2.26.1 The Contractor must, for any custom designed or modified COTs equipment for the improved galley, develop a FAT PLN IAW the guidance in DID- TST-01 and deliver and update these FAT PLN IAW CDRL-TST-01.
- 5.2.26.2 The Contractor must, for the improved galley, develop a FAT PLN in contractor format and deliver this plan IAW CDRL TST-01.
- 5.2.27 Production Test Plan (PRODT PLN)
- 5.2.27.1 The Contractor must, for any custom designed or modified COTS equipment for the improved galley, develop a Production Test Plan IAW the guidance in DID- TST-01 and deliver and update these Production Test Plan IAW CDRL-TST-02.
- 5.2.28 Factory Acceptance Test Procedure (FAT PRCED)
- 5.2.28.1 The Contractor must, for any custom designed or modified COTS equipment for the improved galley, develop a FAT PRCED IAW the guidance in DID-TST-02. The Contractor must deliver and update the FAT PRCEDs IAW CDRL-TST-03.
- 5.2.29 Shock Qualification Test Procedure (SHKQT PRCED)
- 5.2.29.1 The Contractor must, for any custom designed or modified COTS equipment for the improved galley, develop a SHKQT PRCED to prove that the item meets the Shock Requirements found in Tables 3 and 4 TSOR common. The Contractor must develop, deliver and update these procedures IAW CDRL-TST-05 and DID-TST-02.
- 5.2.30 First Article System (FAS) Test General
- 5.2.30.1 The purpose of FAS test is to demonstrate that for any custom designed or modified COTS improved galley equipment that this equipment's design performance and functional requirements have been satisfactorily met.

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- 5.2.30.2 Where the improved galley does include custom or modified COTS equipment, then FAS test will take place at the custom design or modified COTS subcontractor.
- 5.2.30.3 FAS testing of custom designed or modified COTS equipment will demonstrate that the equipment meets its SS/SSS requirements.
- 5.2.30.4 FAS testing must be witnessed and accepted by Canada's Technical Authority (TA) or delegated representative.
- 5.2.31 Test Readiness Reviews (TRR)
- 5.2.31.1 For any custom designed or modified COTS equipment, prior to the commencement of each first article and production test activity the Contractor must complete a TRR which:
- 5.2.31.1.1 Confirms the completeness of the test procedures;
- 5.2.31.1.2 Assures that the system (or system element) is ready for testing;
- 5.2.31.1.3 Assures that any Canada resources required are prepared for formal testing; and
- 5.2.31.1.4 Assures that the Contractor is prepared for formal testing.
- 5.2.32 Witnessing of Test Activities
- 5.2.32.1 The Contractor must invite Canada or representatives appointed by Canada to witness all Test activities.
- 5.2.32.2 Unless otherwise notified in writing by Canada, Canada, or appointed representative(s) will witness system test activities.
- 5.2.32.3 Unless Canada has notified that it or its representative will not witness a test activity, the Contractor must not conduct the test activity in the absence of Canada or Canada's witness.
- 5.2.32.4 Unless otherwise agreed in writing by Canada, the Contractor must provide Canada with at least 45 Working Days advance notice of the start date and time of all test activities.

Note: It is recognized that most of the elements of the improved galley will be COTs. Sections 5.2.35 and 5.2.36 below apply only to those elements of the improved galley that are of custom or modified design.

5.2.33 Shock Qualification Testing (SHOCKQT)

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5.2.33.1 The Contractor, for each type of custom designed or modified COTS equipment, must conduct FAS SHOCKQT using the approved test procedure.

- 5.2.33.2 SHOCKQT Report (SHOCKQT RPT)
- 5.2.33.2.1 On successful completion of SHOCKQT, the Contractor must develop FAS SHOCKQT RPTs in accordance with DID-TST-03 and deliver the Report IAW CDRL-TST-07.
- 5.2.34 FAS Qualification Test Report (FASQT RPT)
- 5.2.34.1 On successful completion of all FASQT, the Contractor must, for the improved galley, develop and deliver a FASQT RPT summarizing the results of the FAS qualification activities IAW CDRL-TST-08 and DID-TST-04.
- 5.2.35 Product Configuration Baselines
- 5.2.35.1 Once the design is agreed to, the functional, derived and product configuration Baselines are brought under configuration control by the Contractor. Any subsequent changes to these baselines are subject to the design change, deviation and waiver process identified in Section 8.4 below.

6 **PRODUCTION**

- 6.1 Production General
- 6.1.1 Production Organization and Planning
- 6.1.1.1 The Contractor must, for any custom designed or modified COTs equipment establish and maintain within its company structure a discrete production organization (referred to as the "Contractor's Production Organization") with suitable capability to perform the production aspects of the contract. The Contractor's Production Organization and its plan to execute the project's production work must be described in the PMP.
- 6.1.2 Production Manager
- 6.1.2.1 The Contractor must have a dedicated Production Manager responsible to the PM to carry out the production work required for this project. The Contractor's production must have the authority to plan, direct, control and make decisions for the Contractor with respect to the production aspects of this project.
- 6.2 Production Tasks

- 6.2.1 Production of the Supplies
- 6.2.1.1 The Contractor must produce the improved galley and spares as identified in Table 3- Improved Galley Deliverables and Table 4-Improved Galley On-Board and Depot Spares.

Note: It is recognized that most of the elements of the improved galley will be COTs. They will come with commercial documentation that is available. The project will not generate any additional documentation with respect to these elements. Sections 6.2.2 and 6.2.3 below apply to those elements of the improved galley that are of custom or modified design

- 6.2.2 FAT
- 6.2.2.1 The Contractor, as applicable for the improved galley and spares, must conduct a production Factory Acceptance Test (FAT) using the item's approved FAT Procedure.
- 6.2.2.2 FAT conduct must be witnessed by Canada's Technical Authority (TA) or delegated representative.
- 6.2.2.3 FAT RPT
- 6.2.2.3.1 As applicable, on successful completion of the FAT for the improved galley, and spares, the Contractor must record the results of the production FAT in a FAT RPT prepared IAW the guidance contained in DID-TST-03 and deliver these FAT Report IAW CDRL-PRD-01.

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W8472-235880 INSTALLATION, SET TO WORK, ACCEPTANCE

7.1 General

- 7.1.1 The improved galley FAS will be initially installed on a First of Class (FOC) submarine and any custom designed or modified COTS equipment will run through a series of FAS On-Board Qualification Tests (OBQTs). These FOC OBQTs are required to prove certain elements of the design that can only be proven by use on board a submarine. These design proving tests must be identified as such in the appropriate test Plan and Procedures and do not have to be repeated in Follow-On-Shipset (FOS) installations. Provided they are functioning properly, the FAS may remain on-board the submarine.
- 7.1.2 The Contractor must, for any custom designed or modified COTS equipment, include in the Plan and Procedures identified below, FOC and FOS test Plan and Procedures. The FOC test Plan and Procedures must be clearly annotated as FOC Shipset Only, and not required for FOS.
- 7.1.3 FOC testing must be witnessed and accepted by Canada's Technical Authority (TA) or delegated representative.

7.2 Plan and Procedures

- 7.2.1 Installation and Acceptance Plan (IA PLN)
- 7.2.1.1 The Contractor must, for any custom designed or modified COTS equipment for the improved galley, develop and deliver an IA PLN IAW CDRL-ISW-01 and DID-ISW-01.
- 7.2.2 Installation and Set to Work Procedures (ISW PRCED)
- 7.2.2.1 The Contractor must, for any custom designed or modified COTS equipment for the improved galley, develop and deliver an ISW PRCED IAW CDRL-ISW-02 and DID-ISW-02.
- 7.2.3 Harbour Acceptance Test Procedure (HAT PRCED)
- 7.2.3.1 The Contractor must, for any custom designed or modified COTS equipment for the improved galley, develop and deliver a HAT PRCED IAW CDRL-ISW-03 and DID-ISW-03.
- 7.3 Tasks
- 7.3.1 General

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- 7.3.1.1 Canada will be responsible for installation, setting to work, testing and acceptance of the FAS and FOS improved galleys. The Contractor must, for any custom designed or modified COTS equipment, for the FAS, provide in person Field Service Representative (FSR) support to Canada to advise and support Canada's implementing agency in these installation activities. Canada's implementing agency may be either a Navy Fleet Maintenance Facility (FMF) or a Victoria In-Service Support Contract (VISSC) Shipyard.
- 7.3.1.2 Canada will provide the Contractor a scheduled requirement for Field Service Representative (FSR) support. Given such notice, the Contractor must provide an FSR or as required FSRs to meet the scheduled requirement.
- 7.3.1.3 For planning purposes the Contractor is to assume that the FAS may take place in Halifax, Nova Scotia or in Esquimalt British Columbia.
- 7.3.2 ISW
- 7.3.2.1 The Contractor must, for one (1) FAS shipset improved galley ISW, provide an FSR for two (2) weeks to advise assist FMF or Shipyard personnel in the scheduled installation of the improved galley carried out IAW the approved ISW PRCED. The purpose of this support is to ensure that the ISW is being done in a manner that will allow the systems to be properly functionally tested on board the submarine in follow on HATs.
- 7.3.2.2 ISW FSR RPT
- 7.3.2.2.1 The Contractor must, for the improved galley, produce and deliver ISW FSR RPTs IAW CDRL-ISW-05 and DID-ISW-00.
- 7.3.3 HAT
- 7.3.3.1 The Contractor must for the FAS improved galley HAT, provide an FSR for two (2) weeks to advise and assist FMF or shipyard personnel in the HAT of the improved galley carried out IAW the approved HAT PRCEDs. The purpose of this support is to ensure that the HAT is being done in a manner that will allow the systems to be properly functionally tested in follow on SATs.
- 7.3.3.2 HAT FSR RPT
- 7.3.3.2.1 The Contractor must, for the improved galley HAT, produce and deliver an FSR HAT RPT IAW CDRL-ISW-06 and DID-ISW-00.

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7.3.4 Final Design Acceptance

7.3.4.1 On successful completion of the FAS HAT of the improved galley, Canada will provide the Contractor with a letter of acceptance of the improved galley's final design.

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8 QUALITY ASSURANCE

8.1 General

- 8.1.1 Quality Organization, Management and Planning
- 8.1.1.1 The Contractor must establish and maintain within its company structure a discrete Integrated Quality organization (referred to as the "Contractor's Quality Organization") with suitable capability and capacity to perform the quality activities of contract. This Quality Organization must be described in the Quality section of the PMP.
- 8.1.1.2 The Contractor must develop a schedule of quality activities as part of the PS

8.2 Quality Management System

- 8.2.1 The Contractor must establish and maintain for the duration of the contract a Quality Management System that complies with the process model for Quality Management System Requirements found at the reference Section 2 Applicable Documents Table 2 Item 3.
- 8.2.2 The Contractor must conduct Quality Activities in accordance with the Contractor's PMP and PS.
- 8.2.3 The Contractor must ensure that all approved Subcontractors have a quality management system appropriate to the work required under the subcontract.
- 8.2.4 The Contractor must ensure that all work performed under a Subcontract meets the requirements of the QMS to be applied by the Contractor under Section 8.2
- 8.2.5 Additional Subcontractor Quality Requirements.
- 8.2.5.1 The Contractor must flow these additional quality requirements to all Approved Subcontractors (as required).
- 8.2.5.2 The Contractor must ensure that all subcontract work required to meet these additional requirements is performed in accordance with the reference Section 2 Applicable Documents Table 1 Item 1.

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8.3 Quality Assurance and Audits

- 8.3.1 Government Quality Assurance
- 8.3.1.1 All work will be subject to Government Quality Assurance (GQA) at the Contractor's facility, at the subcontractor(s), or at destination by the Quality Assurance Authority (QAA).
- 8.3.2 Quality Audits
- 8.3.2.1 Canada reserves the right to perform Government Quality Audits with a minimum of three (3) working days' notice. This requirement does not relieve the Contractor and/or subcontractor(s) of QA responsibilities for the Work carried out during the Contract. Canada reserves the right to use independent third parties to assist in these reviews.
- 8.4 Design Change/Deviation and Waiver
- 8.4.1 Design Change/Deviation Requests/Authorization/Implementation
- 8.4.1.1 Requests for Design Change/Deviation
- 8.4.1.1.1 If the Contractor wishes to depart from the requirements of the technical data specified in the Contract, the Contractor must request either a design change or a deviation. The Contractor may request this design change or deviation in contractor format, or may, in accordance with the instructions found at the reference Section 2 Applicable Documents Table 2 Item 4, complete the reference's form DND 672. Requests for design change or deviation will be submitted in accordance with CDRL-QA-01 in MS Word and .PDF format.
- 8.4.1.2 Authorization of Design Change/Deviation
- 8.4.1.2.1 Each type of Design Change or Design Deviation request will be authorized by both Canada's Design Authority (DA) and Contracting Authority. Canada's DA has the sole right to deny authorization of a Design Change or Design Deviation. Should this right be exercised, all parties will be advised accordingly by an appropriately annotated copy of the Request for Design Change/Deviation Form.
- 8.4.1.3 Implementation of Design Change/Deviation
- 8.4.1.3.1 The Contractor must implement the design change or the design deviation on receipt of authorization.

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- 8.4.2 Waiver Requests/Authorization
- 8.4.2.1 Request for Waiver Authorization
- 8.4.2.1.1 When the Contractor wishes to request acceptance of items which are found during or after manufacture to depart from the technical data requirements of the contract the Contractor must request a Waiver. The Contractor may request this Waiver in contractor format, or may, in accordance with the instructions found at the reference Section 2 Applicable Documents Table 2 Item 4, complete the reference's form DND 675. Requests for Waiver will be submitted IAW CDRL-QA-02 in MS Word and .PDF format.
- 8.4.2.2 Waiver Authorization
- 8.4.2.2.1 Each type of waiver request will be prepared by the Quality Assurance Representative (QAR) authorized by Canada's Design Authority (DA) and Contracting Authority (CA). Canada's DA has the sole right to refuse the waiver request. Should this right be exercised, all parties will be advised accordingly by an appropriately annotated copy of the Request for Waiver Form.
- 8.4.3 Material Change Notice
- 8.4.3.1 Where the design change/deviation/waiver results in new requirements for the improved galley, or spares, the Contractor must originate a Material Change Notice (MCN) in accordance with the instructions found at the reference Section 2 Applicable Documents Table 1 Item 4. MCNs will be submitted IAW CDRL-QA-03 in MS Word and .PDF format and must be reflected in the Contract by amendment.

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9 CONFIGURATION MANAGEMENT

9.1 Configuration Management Approach, Organization and Plan

- 9.1.1 The Contractor must adhere to the Configuration Management (CM) principles identified at the reference Section 2 Applicable Documents Table 2 Item 9.
- 9.1.2 The Contractor's CM approach, organization and plan to execute CM must be discussed in the PMP.
- 9.1.3 The Contractor must develop a schedule of CM activities in the PS.
- 9.2 Configuration Identification, Status, Baselines
- 9.2.1 Configuration Status Account
- 9.2.1.1 The Contractor must, for the improved galley and spares, develop, deliver and update a Configuration Status Account (CSA) IAW CDRL-CM-01 and DID-CM-01.
- 9.2.2 Configuration Identification
- 9.2.2.1 The Contractor must for the improved galley:
- 9.2.2.1.1 identify all the Configuration Items (CIs); and
- 9.2.2.1.2 uniquely identify all documents that disclose the performance, functional and physical attributes of the improved galley, so that they may be accurately associated with the configuration baseline of the improved galley.
- 9.2.3 Configuration Baselines
- 9.2.3.1 The Contractor must, for the improved galley and spares, develop and maintain at least each type of the following configuration baselines during the Contract:
- 9.2.3.1.1 functional baseline;
- 9.2.3.1.2 allocated baseline; and
- 9.2.3.1.3 product baseline.
- 9.2.3.2 Once the functional, allocated and product baselines have been established and approved, the Contractor must manage design changes and deviations in accordance with Section 8.4 above. This includes their:
- 9.2.3.2.1 identification;

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- 9.2.3.2.2 request and documentation;
- 9.2.3.2.3 for configuration changes only, classification as major changes or minor changes;
- 9.2.3.2.4 evaluation and coordination; and
- 9.2.3.2.5 implementation and verification of the changes.
- 9.2.4 Configuration Changes
- 9.2.4.1 The Contractor must submit to Canada Contract Change Proposals (CCPs) supplemented by ECPs in accordance with the Approved CMP as described in the PMP to implement changes to approved functional and product baselines.
- 9.2.4.2 All changes to a functional baseline must be classified as a major change.
- 9.2.4.3 The Contractor must classify changes to a product baseline as either a major change or a minor change.
- 9.2.4.4 The Contractor must submit all proposed major changes to the product baseline to Canada for approval as CCPs supplemented by ECPs.
- 9.2.4.5 The Contractor must submit all proposed minor changes to the product baseline to Canada or Canada's representative for review.
- 9.2.4.6 At the request of Canada, the Contractor must resubmit a proposed minor change to the product baseline as a proposed major change to that product baseline.
- 9.2.4.7 The Contractor must, for any proposed change to a configuration baseline, ensure that all configuration baselines will be mutually consistent and compatible.

9.3 Configuration Status Accounting

- 9.3.1 General
- 9.3.1.1 The Contractor must establish and maintain, in accordance with the approved CMP as described in the PMP, a Configuration Status Accounting (CSA) system that correlates, stores, maintains and provides readily available views of all configuration information relating to the improved galley and spares system components and their configuration baselines.
- 9.3.2 Access to Contractor's CSA System

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- 9.3.2.1 The Contractor must provide all facilities and assistance reasonably required by Canada in order for Canada to access the Contractor's CSA system for the duration of the Contract.
- 9.3.3 Configuration Status Accounting (CSA) Report
- 9.3.3.1 The Contractor must deliver a CSA Report to Canada from the Contractor's CSA System Report IAW CDRL-CM-02 and DID-CM-02.

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10 INTEGRATED LOGISTICS SUPPORT

10.1 Integrated Logistics Support Management

- 10.1.1 Integrated Logistics Support Organization and Planning
- 10.1.1.1 The Contractor must establish and maintain within its company structure a discrete Integrated Logistics Support (ILS) organization (referred to as the "Contractor's ILS Organization or ILS Organization") with the capability to perform the ILS activities of contract. This ILS Organization and its plan to execute the project's ILS work must be described in the PMP.
- 10.1.1.2 The Contractor must develop a schedule of ILS activities as part of the PS.
- 10.1.1.3 The Contractor must conduct ILS activities in accordance with the Contractor's PMP and PS.
- 10.1.2 ILS Manager
- 10.1.2.1 The Contractor must have a designated ILS manager responsible to the PM to carry out the ILS work required for this project. The Contractor's ILS manager must have the authority to plan, direct, control and make decisions for the Contractor with respect to the ILS aspects of this project.

10.2 ILS Tasks

- 10.2.1 Naval Preventive Maintenance Schedules (NPMS)
- 10.2.1.1 The Contractor must, for those elements of the improved galley which require preventive maintenance, prepare individual NPMS meeting the maintenance requirements of Section 3.11 of the TSOR, and deliver NPMSs IAW CDRL-ILS-01 and DID-ILS-01.
- 10.2.2 Standard Ship Maintenance and Repair Specifications (SSMRS)
- 10.2.2.1 The Contractor must, for those elements of the improved galley which require maintenance or replacement during a refit, prepare individual SSMRS (SSMRS) meeting the maintenance requirements of Section 3.11 of the TSOR, and deliver an SSMRS IAW CDRL-ILS-02 and DID-ILS-02.
- 10.2.3 Technical Data Package (TDP)
- 10.2.3.1 The Contractor, for the improved galley, must develop and deliver a TDP IAW CDRL-ILS-03 and DID-ILS-03.

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10.2.4 Improved Galleys

- 10.2.4.1 The Contractor must deliver new improved galley FAS, FOS, and Depot Spares Set (DSS) as identified in Table 4, improved galley deliverables.
- 10.2.5 Spares
- 10.2.5.1 Recommended Spare Parts List (RSPL)
- 10.2.5.1.1 The Contractor must develop and deliver an improved galley RSPLs IAW CDRL item ILS-04 and DID-ILS-04.
- 10.2.5.2 RSPL Approval
- 10.2.5.2.1 Once Canada approves the improved galley RSPL, the Contractor must submit a CCP to update Table 5 FAS OBS, FOS OBS, 2L Spares and Depot Spares to incorporate into the Contract the spares identified in the approved RSPLs.
- 10.2.5.3 Spares Production
- 10.2.5.4 The Contractor must procure or manufacture, test and deliver the approved spares as identified in the updated Table 4-Improved Galley On-Board and Depot Level Spares. On board spares must be delivered with each boat's improved galley. Depot level spares must be delivered in an agreed to time frame.
- 10.2.5.5 Provisioning Parts Breakdown (PPB)
- 10.2.5.6 The Contractor must, for the improved galley, prepare and deliver a PPB in the electronic format identified by the Canadian Forces Supply System (CFSS) IAW CDRL-ILS-05 and DID-ILS-05.
- 10.2.6 Packaging Handling Storage and Transportability (PHST)
- 10.2.6.1 Conduct of PHST
- 10.2.6.1.1 The Contractor must conduct PHST IAW A-LM-505-001/AG-001 (Section 2, Table 1, item 21.
- 10.2.6.2 Packaging Methods and Level
- 10.2.6.2.1 The Contractor must ensure that packaging of the supplies will provide adequate protection for a minimum of five (5) years, consistent with good economy, against damage, deterioration, and loss of identification during storage, handling and shipment.

10.2.6.3 Marking of Packages

- 10.2.6.3.1 The Contractor must mark all packages, shipping containers and consolidation containers IAW D-LM-008-002/SF-001 (Section 2, Table 1 and Item 18), as applicable.
- 10.2.6.4 Marking of Dangerous/Hazardous Items
- 10.2.6.4.1 The Contractor must mark Dangerous/Hazardous Items as follows:
- 10.2.6.4.2 Shipping Container: "In accordance with the Canada's Transportation of Dangerous Goods Act"; and
- 10.2.6.4.3 Immediate Product Container: "In accordance with Canada's Hazardous Products Act, Controlled Products Regulation.
- 10.2.6.5 Shelf Life of Items. The Contractor must mark the individual package for each type of Shelf Life Item with:
- 10.2.6.5.1 Date of manufacture;
- 10.2.6.5.2 The Shelf Life expiry date;
- 10.2.6.5.3 The storage environment restrictions (e.g. no freezing, no sunlight); and
- 10.2.6.5.4 Any storage requirements (e.g. rotate every 20 weeks).
- 10.2.6.6 Contract End Items List (CEIL)
- 10.2.6.6.1 The Contractor must, for the improved galley and any delivered Spares, provide a CEIL for these items developed or acquired under this SOW IAW CDRL-ILS-06 and DID-ILS-06.

Note: It is recognized that most of the elements of the improved galley will be COTs. They will come with commercial technical manuals that they have. The project will not generate any additional documentation with respect to these elements. Section 10.2.7 below applies to those elements of the improved galley that are of custom or modified design

- 10.2.7 Technical Manuals (TM)
- 10.2.7.1 The Contractor for the improved galley equipment must deliver their associated technical manuals in both the English and French languages IAW CDRL-ILS-07 and DID-ILS-07.

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11 **ACCEPTANCE**

11.1 Acceptance of Deliverable Data Items

- 11.1.1 Contractor's Production and Delivery
- 11.1.1.1 The Contractor must produce, update and deliver to Canada all data items required by this SOW in accordance with the Contract Data Requirements List (CDRL) at Appendix 1 to this SOW. The Contractor must ensure that the document submitted consists of a complete document compliant with the requirements of the deliverable data item defined in that item's Data Item Description (DID) which can be found at Appendix 2 to this SOW.
- 11.1.2 Canada's Review and Acceptance
- 11.1.2.1 Data Items delivered to Canada IAW this SOW will be subject to review and comments or review and acceptance by Canada. Unless otherwise indicated, Canada's review will take not more than ten (10) working days from the receipt of the Data Item, at which time Canada will either accept the document or provide comments requiring further clarification by the Contractor prior to document acceptance.
- 11.1.3 Contractor's Clarification
- 11.1.3.1 In the event that Canada has provided comments the Contractor must address Canada's comments, and provide, within ten (10) working days either a response, satisfactory to Canada with no data deliverable update required, or an agreed to updated data deliverable.
- 11.1.4 Canada's Review and Approval of Contractor's Clarification
- 11.1.4.1 Canada, on receipt of a satisfactory no update required response, or on receipt of an agreed to updated data deliverable, will take no more than ten (10) working days to review and accept the updated data deliverable.

11.2 Acceptance of the Designs

11.2.1 Acceptance of improved galley design will be progressive. Design requirements acceptance criteria and design results are defined and recorded in the Requirements Verification Cross Reference Matrix, detailed in Section 5.2.9.1. Once the Cross-Reference Matrix has been completed showing that all the defined design acceptance criteria have been met, the design will be accepted.

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W8472-235880 W8472-235880 11.3 Acceptance of the Improved Galley and Spares

11.3.1 The improved galley and spares will be inspected on receipt by Canada and provided they pass visual inspection and the accompanying paperwork (including any required test Report and certificates of conformance) is complete, they will be accepted for delivery.

12 **DELIVERY**

12.1 Improved Galley and Spares

12.1.1 The Contractor must deliver improved galleys and spares sets to both Halifax, Nova Scotia and Esquimalt, British Columbia as follows:

Item	Halifax	Esquimalt
Improved Galleys	1	3
Improved Galley On-Board Spares	1	3
Improved Galley 2 nd Line Spares	1	1
Improved Galley Depot Spares	1	1

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ANNEX A

APPENDIX 1

CONTRACT DATA REQUIREMENTS LIST

GALLEY IMPROVEMENT

FOR THE

VICTORIA CLASS SUBMARINES



NOTICE

This documentation has been reviewed by the technical authority and does not contain controlled goods. Disclosure notices and handling instructions originally received with the document must continue to apply.

AVIS

Cette documentation a été révisée par l'autorité technique et ne contient pas de marchandises contrôlées. Les avis de divulgation et les instructions de manutention reçues originalement doivent continuer de s'appliquer.

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LIST OF EFFECTIVE PAGES

Insert latest changed pages, dispose of superseded pages In Accordance With (IAW) applicable orders.

NOTE

On a changed page, the portion of the text affected by the latest change is indicated by a vertical line in the margin of the page.

Date of issue for original and changed pages are:

Original DD Month 2020 Change DD Month 2022

A zero in Change No. column indicates an original page. The Total number of pages in this CDRL is 28 consisting of the following:

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- 1 SCOPE
- 1.1 General
- 1.1.1 Purpose. The purpose of the Galley Improvement Contract Data Requirements List is to provide a list and schedule of all Contract data deliverables. Preparation instructions for the data deliverables are contained in Data Item Descriptions (DIDs) found in Appendix 2 to this SOW.
- 1.1.2 Document Changes/Updates. All deliverable documents must be prepared and updated as required by the Contract Data Requirements List (CDRL). All changes to updated versions of documents must be identified as follows:
- 1.1.2.1 On a change page indicating page numbers, paragraphs numbers, date of change and reason for change;
- 1.1.2.2 Within the hard copy, by use of change bars in the side margins of the printed document; and
- 1.1.2.3 Within a soft copy, using a method appropriate to the authoring tools that clearly differentiates old contents from new or revised content.
- 1.1.3 Deliverable Format and Number of Copies. The deliverable format and number of copies required for the CDRL are defined within the CDRL. Soft copies of deliverable documentation must be delivered in both Searchable Portable Document Format (PDF) and in original editable source file format, e.g. Microsoft Word 2010.
- 1.1.4 Abbreviations. The abbreviations found in Table 1 below are used in CDRL entries and their DIDs.

Α	Approval	PCA	Physical Configuration Audit
AT Acceptance Test		PDR	Preliminary design Review
CAwd	Contract Award	R	Review
CDR	Critical Design Review	SRR	System Requirements Review
1	Information only	STW	Set To Work
М	Calendar month	wd	Working Day

Table 1 Abbreviations Found in galley improvement CDRLs and DIDs

Buyer ID - Id de l'acheteur 8715100 CCC No./N° CCC - FMS No./N° VME

2 CONTRACT DATA REQUIREMENTS LIST SUMMARY

2.1 Project Management CDRL Summary

Project Manager	ment CDRLs				
CDRL#	DID#	Deliverable	Review Level	Due	Section in SOW
CDRL-PM-01	DID-PM-01	Project Management Plan	А	Proposal, PKO-10 wd	4.2.1.1
CDRL-PM-02	DID-PM-02	Work Breakdown Structure	R	Proposal, PKO-10 wd	4.2.2.1
CDRL-PM-03	DID-PM-03	Project Schedule	А	Proposal, Monthly with PSR	4.2.3.1
CDRL-PM-04	DID-PM-04	Progress Report	R	PRM- 5 wd	4.3.1.1
CDRL-PM-05	DID-PM-05	Meeting Agenda	Α	Meeting – 5 wd	4.5.3.1
CDRL-PM-06	DID-PM-06	Meeting Minutes	А	Meeting or Meeting + 5 wd	4.5.4.1
CDRL-PM-07	DID-PM-07	Action Item List	А	With PR, as requested	4.5.6.2

2.2 System Engineering and Design CDRL Summary

Engineering CDR	Ls				
CDRL#	DID#	Deliverable	Review Level	Due	Section in SOW
CDRL-ENG-01	DID-ENG-01	System Boundaries Report	А	Boat Survey + 15 wd	5.2.3.1
CDRL-ENG-02	DID-ENG-02	System Requirements Review Report	A	PKO/SRR Meeting – 10 wd	5.2.4.1
CDRL-ENG-03	DID-ENG-03	System/Sub-System Specifications	A	PDR – 10 wd CDR-10 wd PRR-10 wd With TDP	5.2.6.1
CDRL-ENG-04	DID-ENG-04	System/Sub-System Design Documents	A	PDR – 10 wd CDR-10 wd PRR-10 wd With TDP	5.2.7.1
CDRL-ENG-05	DID-ENG-05	Requirements Verification Cross Reference Matrices	A	PKO/SRR Meeting – 10 wd PDR -10 wd, PRR- 10 wd, FOC SAT + 20wd	5.2.11.1
CDRL-ENG-06	N/A IAW the reference	Equipment Breakdown Structure	Α	PDR Meeting -10 wd, CDR Meeting - 10 wd, With TDP	5.2.14.2
CDRL-ENG-07	DID-ENG-07	Material Lists	R	PDR Meeting -10 wd	5.2.16.6.1
CDRL-ENG-08	DID-ENG-08	Safety Data Sheets	A	PDR Meeting – 10 wd CDR Meeting – 10 wd With TDP	5.2.16.7.1
CDRL-ENG-09	DID-ENG-09	Preliminary Design Report	А	PDR Meeting – 10 wd	5.2.17.1

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Engineering CDR	Ls				
CDRL#	DID#	Deliverable	Review Level	Due	Section in SOW
CDRL-ENG-10	DID-ENG-10	Detailed Design Report	A	CDR meeting – 10 wd	5.2.21.2
CDRL-ENG-11	DID-ENG-11	First Article System Design Report	A	FAS Build – 10 wd	5.2.25.3
CDRL-ENG-12	N/A Contractor Format	Type Approval Report	A	PRR-10 wd	5.2.25.5

2.3 First Article Test Plan, Procedures and Report CDRL Summary

First Article CDR	Ls				
CDRL#	DID#	Deliverable	Review Level	Due	Section in SOW
CDRL-TST-01	DID-TST-01	First Article Test Plan	А	PDR – 10 wd	5.2.26.1 5.2.26.2
CDRL-TST-02	DID-TST-01	Production Test Plan	Α	PDR – 10 wd	5.2.27.1
CDRL-TST-03	DID-TST-02	Factory Acceptance Test Procedures	Α	CDR – 10 wd	5.2.28.1
CDRL-TST-04	DID-TST-02	Not Used			
CDRL-TST-05	DID-TST-02	Shock Qualification Test Procedures	Α	CDR – 10 wd	5.2.29.1
CDRL-TST-06	DID-TST-03	Not Used			
CDRL-TST-07	DID-TST-03	Shock Qualification Test Report	Α	Shock Test + 10 wd	5.2.33.2.1
CDRL-TST-08	DID-TST-04	First Article Systems Qualification Test Report	Α	Last FAS Test + 20 wd	5.2.34.1

2.4 Production CDRL Summary

Production CDRLs						
CDRL#	DID#	Deliverable	Review Level	Due	Section in SOW	
CDRL-PRD-01	DID-TST-03	FAT Report	Α	Unit FATs + 10 wd	6.2.2.3.1	

2.5 Installation, Set to Work and Acceptance CDRL Summary

Installation, Set t	o Work and Acce	eptance CDRLs			
CDRL#	DID#	Deliverable	Review Level	Due	Section in SOW
CDRL-ISW-01	DID-ISW-01	Installation and Acceptance Plan	А	CDR-10 wd	7.2.1.1
CDRL-ISW-02	DID-ISW-02	Installation and Set to Work Procedures	Α	CDR-10 wd	7.2.2.1
CDRL-ISW-03	DID-ISW-03	Harbour Acceptance Test Procedures	А	CDR-10 wd	7.2.3.1
CDRL-ISW-05	DID-ISW-00	Installation and Set to Work FSR Report	А	ISW + 10 wd	7.3.2.2.1
CDRL-ISW-06	DID-ISW-00	Harbour Acceptance Test FSR Report	Α	HAT + 10 wd	7.3.3.2.1

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2.6 Quality Assurance CDRL Summary

Quality Assuran	ce CDRLs				
CDRL#	DID#	Deliverable	Review Level	Due	Section in SOW
CDRL-QA-01	N N/A IAW Reference	Request for Design Change/Deviation	A	Event + 5 wd	8.4.1.1.1
CDRL-QA-02	N N/A IAW Reference	Request for Waiver	A	Event + 5 wd	8.4.2.1.1
CDRL-QA-03	N/A IAW Reference	Material Change Notice	A	Event + 5 wd	8.4.3.1

2.7 Configuration Management CDRL Summary

Configuration Management CDRLs					
CDRL#	DID#	Deliverable	Review Level	Due	Section in SOW
CDRL-CM-01	DID-CM-01	Configuration Status Accounts	R	PDR -10 wd CDR - 10 wd PRR - 10 wd Production Complete + 20 wd	9.2.1.1
CDRL-CM-02	DID-CM-02	Configuration Status Account (CSA) System Report	A	PDR -10 wd CDR - 10 wd PRR - 10 wd Production Complete + 20 wd	9.3.3.1

2.8 Integrated Logistics Support CDRL Summary

Integrated Logistic Support CDRLs					
CDRL#	DID#	Deliverable	Review Level	Due	Section in SOW
CDRL-ILS-01	DID-ILS-01	Naval Preventive Maintenance Schedules (NPMS)	A	With Initial ECIP	10.2.1.1
CDRL-ILS-02	DID-ILS-02	Standard Ship Maintenance and Repair Specifications (SSMRS)	A	PRR – 10 wd	10.2.2.1
CDRL-ILS-03	DID-ILS-03	Technical Data Packages	A	1st Shipset Delivery +10 wd	10.2.3.1
CDRL-ILS-04	DID-ILS-04	Recommended Spare Parts Lists (RSPL)	A	CDR -10 wd	10.2.5.1.1
CDRL-ILS-05	DID-ILS-05	Provisioning Parts Breakdowns (PPB)	A	With Spares delivery	10.2.5.6
CDRL-ILS-06	DID-ILS-06	Contractor End Items List (CEIL)	А	Final Delivery +10wd	10.2.6.6.1
CDRL-ILS-07	DID-ILS-07	Technical Manuals	Α	PRR – 10 wd	10.2.7.1

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3 CDRL Details

3.1 Project Management CDRL Details

1	Sequence Number	PM – 01
2	Title or Description Number	Project Management Plan
3	Data Item Description Number	DID-PM-01
4	Reference	SOW Section 4.2.1.1
5	First Submission	With Proposal
6	Number of Copies/Format	1 / Soft Copy in MS Office and .PDF
7	PM Review/Approval	Yes/No
8	Delivery Venue	Email
9	Review/Approval Lead Time	NA/NA
10	Subsequent Submission	PKO-10 wd if updates required
11	Remarks	N/A

1	Sequence Number	PM – 02
2	Title or Description Number	Work Breakdown Structure
3	Data Item Description Number	DID-PM-02
4	Reference	SOW Section 4.2.2.1
5	First Submission	With Proposal
6	Number of Copies/Format	1 / Soft Copy in MS Office and .PDF
7	PM Review/Approval	Yes/No
8	Delivery Venue	Email
9	Review/Approval Lead Time	NA/NA
10	Subsequent Submission	PKO-10 wd if updates required
11	Remarks	N/A

1	Sequence Number	PM - 03
2	Title or Description Number	Project Schedule
3	Data Item Description Number	DID-PM-03
4	Reference	SOW Section 4.2.3.1
5	First Submission	With Proposal
6	Number of Copies/Format	1 / Soft Copy in MS Project and .PDF
7	PM Review/Approval	Yes/Yes
8	Delivery Venue	Email
9	Review/Approval Lead Time	NA/NA
10	Subsequent Submission	With Monthly Project Status Report
11	Remarks	N/A

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1	Sequence Number	PM – 04
2	Title or Description Number	Progress Report
3	Data Item Description Number	DID-PM-04
4	Reference	SOW Section 4.3.1.1
5	First Submission	PKO/SRR Meeting-5 wd
6	Number of Copies/Format	1 / Soft Copy in MS Office and .PDF
7	PM Review/Approval	Yes/No
8	Delivery Venue	Email
9	Review/Approval Lead Time	5 wd / NA
10	Subsequent Submission	PRM- 5 wd
	Remarks	N/A
11		

1	Coguenes Number	PM – 05
!	Sequence Number	
2	Title or Description Number	Meeting Agenda
3	Data Item Description Number	DID-PM-05
4	Reference	SOW Section 4.5.3.1
5	First Submission	At Meeting or meeting - 5 wd
6	Number of Copies/Format	1 / Soft Copy in MS Office and .PDF
7	PM Review/Approval	Yes/Yes
8	Delivery Venue	Email
9	PM Review/Approval Lead Time	5 wd / 5wd
10	Subsequent Submission	N/A
11	Remarks	Review and Approval run concurrently.

1	Sequence Number	PM – 06
2	Title or Description Number	Meeting Minutes
3	Data Item Description Number	DID-PM-06
4	Reference	SOW Section 4.5.4.1
5	First Submission	Meeting +5 wd
6	Number of Copies/Format	1 / Soft Copy in MS Office and .PDF
7	PM Review/Approval	Yes/Yes
8	Delivery Venue	Email
9	PM Review/Approval Lead Time	5 wd / 5wd
10	Subsequent Submission	N/A
11	Remarks	If possible, minutes should be distributed at the
		end of the meeting and signed by responsible
		parties. Where not possible, Review and Approval
		run concurrently.
1	Sequence Number	PM – 07
2	Title or Description Number	Action Item List
3	Data Item Description Number	DID-PM-07
4	Reference	SOW Section 4.5.6.2
5	First Submission	With first Progress Report
6	Number of Copies/Format	1 / Soft Copy in MS Excel and .PDF
7	PM Review/Approval	Yes/Yes
8	Delivery Venue	Email
9	PM Review/Approval Lead Time	5 wd / 5wd
10	Subsequent Submission	With subsequent Progress Report
11	Remarks	N/A.

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3.2 Engineering CDRL Details

1	Sequence Number	ENG-01
2	Title or Description Number	System Boundaries Report
3	Data Item Description Number	DÍD-ENG-01
4	Reference	SOW Section 5.2.3.1
5	First Submission	Boat Survey + 15 wd
6	Number of Copies/Format	1 / Soft Copy in MS Office and .PDF
7	PM Review/Approval	Yes/Yes
8	Delivery Venue	Email
9	PM Review/Approval Lead Time	10 wd / 10 wd
10	Subsequent Submission	N/A
11	Remarks	Review and Approval run concurrently.

1	Sequence Number	ENG-02
2	Title or Description Number	System Requirements Review Report
3	Data Item Description Number	DID-ENG-02
4	Reference	SOW Section 5.2.4.1
5	First Submission	SRR Meeting – 10 wd
6	Number of Copies/Format	1 / Soft Copy in MSOffice and .PDF
7	PM Review/Approval	Yes/Yes
8	Delivery Venue	Email
9	PM Review/Approval Lead Time	10 wd / 10 wd
10	Subsequent Submission	N/A
11	Remarks	Review and Approval run concurrently.

1	Sequence Number	ENG-03
2	Title or Description Number	System /Subsystem Specifications
3	Data Item Description Number	DID-ENG-03
4	Reference	SOW Section 5.2.6.1
5	First Submission	PDR – 10 wd
6	Number of Copies/Format	1 / Soft Copy in MS Office and .PDF
7	PM Review/Approval	Yes/Yes
8	Delivery Venue	Email
9	PM Review/Approval Lead Time	10 wd / Review Event + 10 wd
10	Subsequent Submission	CDR – 10wd, PRR – 10 wd and with TDP
11	Remarks	N/A

1	Sequence Number	ENG-04
2	Title or Description Number	System /Subsystem Design Documents
3	Data Item Description Number	DID-ENG-04
4	Reference	SOW Section 5.2.7.1
5	First Submission	PDR – 10 wd
6	Number of Copies/Format	1 / Soft Copy in MS Office and .PDF
7	PM Review/Approval	Yes/Yes
8	Delivery Venue	Email
9	PM Review/Approval Lead Time	10 wd / Review Event + 10 wd
10	Subsequent Submission	CDR – 10wd, PRR – 10 wd and with TDP
11	Remarks	N/A

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1	Sequence Number	ENG-05
2	Title or Description Number	Rqmts Verification Cross Reference Matrices
3	Data Item Description Number	DID-ENG-05
4	Reference	SOW Section 5.2.11.1
5	First Submission	PKO/SRR Meeting – 10 wd
6	Number of Copies/Format	1 / Soft Copy in MS Excel and .PDF
7	PM Review/Approval	Yes/Yes
8	Delivery Venue	Email
9	PM Review/Approval Lead Time	10 wd / Review Event + 10 wd
10	Subsequent Submission	PDR-10 wd, PRR – 10 wd and FOC SAT + 20 wd
11	Remarks	N/A

1	Sequence Number	ENG-06
2	Title or Description Number	Equipment Breakdown Structure
3	Data Item Description Number	N/A IAW the reference
4	Reference	SOW Section 5.2.14.2
5	First Submission	PDR Meeting – 10 wd
6	Number of Copies/Format	1 / Soft Copy in MS Excel and .PDF
7	PM Review/Approval	Yes/Yes
8	Delivery Venue	Email
9	PM Review/Approval Lead Time	10 wd / Review Event + 10 wd
10	Subsequent Submission	CDR Meeting – 10 wd and with TDP
11	Remarks	Review and Approval run concurrently.

1	Sequence Number	ENG-07
2	Title or Description Number	Material Lists
3	Data Item Description Number	DID-ENG-07
4	Reference	SOW Section 5.2.16.5.1
5	First Submission	PDR Meeting – 10 wd
6	Number of Copies/Format	1 / Soft Copy in MS Excel and .PDF
7	PM Review/Approval	Yes/Yes
8	Delivery Venue	Email
9	PM Review/Approval Lead Time	10 wd / Review Event + 10 wd
10	Subsequent Submission	CDR Meeting – 10 wd and with TDP
11	Remarks	Review and Approval run concurrently.

1	Sequence Number	ENG-08
2	Title or Description Number	Safety Data Sheets
3	Data Item Description Number	DID-ENG-08
4	Reference	SOW Section 5.2.16.6.1
5	First Submission	PDR Meeting – 10 wd
6	Number of Copies/Format	1 / Soft Copy in .PDF
7	PM Review/Approval	Yes/Yes
8	Delivery Venue	Email
9	PM Review/Approval Lead Time	10 wd / 10 wd
10	Subsequent Submission	CDR Meeting -10 wd and with TDP
11	Remarks	N/A

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1	Sequence Number	ENG-09
2	Title or Description Number	Preliminary Design Report
3	Data Item Description Number	DID-ENG-09
4	Reference	SOW Section 5.2.17.1
5	First Submission	PDR Meeting – 5 wd
6	Number of Copies/Format	1 / Soft Copy in MS Office and .PDF
7	Delivery Venue	Email
8	PM Review/Approval Required	Yes/Yes
9	Approval Lead Time	10 wd/PDR Meeting + 10wd
10	Subsequent Submission	N/A
11	Remarks	N/A

1	Sequence Number	ENG-10
2	Title or Description Number	Detailed Design Report
3	Data Item Description Number	DID-ENG-10
4	Reference	SOW Section 5.2.21.2
5	First Submission	CDR Meeting – 10 wd
6	Number of Copies/Format	1 / Soft Copy in MS Office and .PDF
7	Delivery Venue	Email
8	PM Review/Approval	Yes/Yes
9	Approval Lead Time	10 wd / CDR Meeting + 10 wd
10	Subsequent Submission	N/A
11	Remarks	N/A

1	Sequence Number	ENG-11
2	Title or Description Number	First Article System Design Report
3	Data Item Description Number	DID-ENG-11
4	Reference	SOW Section 5.2.25.3
5	First Submission	FAS Build – 10 wd
6	Number of Copies/Format	1 / Soft Copy in MS Office and .PDF
7	Delivery Venue	Email
8	PM Review/Approval Required	Yes/Yes
9	Approval Lead Time	10 wd /10 wd
10	Subsequent Submission	N/A
11	Remarks	Review and Approval run concurrently

1	Sequence Number	ENG-12
2	Title or Description Number	Type Approval Report
3	Data Item Description Number	N/A In Contractor Format
4	Reference	SOW Section 5.2.25.5
5	First Submission	PRR- 10 wd
6	Number of Copies/Format	1 / Soft Copy in MS Office and .PDF
7	Delivery Venue	Email
8	PM Review/Approval Required	Yes/Yes
9	Approval Lead Time	10wd/10wd
10	Subsequent Submission	N/A
11	Remarks	Review and Approval run concurrently

1: 1.10/10	CALLEY DANDONE CONT. FOR THE LOC	CDDI	Revision	Date
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3.3 First Article Testing CDRL Details

1	Sequence Number	TST-01
2	Title or Description Number	First Article Test Plan
3	Data Item Description Number	DID-TST-01
4	Reference	SOW Section 5.2.26.1 and 5.2.26.2
5	First Submission	PDR – 10wd
6	Number of Copies/Format	1 / Soft Copy in MS Office and .PDF
7	Delivery Venue	Email
8	PM Review/Approval Required	Yes/Yes
9	Approval Lead Time	10 wd / 10 wd
10	Subsequent Submission	N/A
11	Remarks	Review and Approval run concurrently

1	Sequence Number	TST-02	
2	Title or Description Number	Production Test Plan	
3	Data Item Description Number	DID-TST-01	
4	Reference	SOW Section 5.2.27.1	
5	First Submission	PDR – 10wd	
6	Number of Copies/Format	1 / Soft Copy in MS Office and .PDF	
7	Delivery Venue	Email	
8	PM Review/Approval Required	Yes/Yes	
9	Approval Lead Time	10 wd / 10 wd	
10	Subsequent Submission	N/A	
11	Remarks	Review and Approval run concurrently	

1			
1	Sequence Number	TST-03	
2	Title or Description Number	Factory Acceptance Test Procedures	
3	Data Item Description Number	DID-TST-02	
4	Reference	SOW Section 5.2.28.1 and 6.2.2.3.1	
5	First Submission	CDR – 10wd	
6	Number of Copies/Format	1 / Soft Copy in MS Office and .PDF	
7	Delivery Venue	Email	
8	PM Review/Approval Required	Yes/Yes	
9	Approval Lead Time	10 wd / 10 wd	
10	Subsequent Submission	N/A	
11	Remarks	Review and Approval run concurrently	

1	Sequence Number	TST-04		
2	Title or Description Number	NOT USED		
3	Data Item Description Number	DID-TST-02		
4	Reference			
5	First Submission	CDR – 10wd		
6	Number of Copies/Format	1 / Soft Copy in MS Office and .PDF		
7	Delivery Venue	Email		
8	PM Review/Approval Required	Yes/Yes		
9	Approval Lead Time	10 wd / 10 wd		
10	Subsequent Submission	N/A		
11	Remarks	Review and Approval run concurrently		

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1	Sequence Number	TST-05		
2	Title or Description Number	Shock Qualification Test Procedures		
3	Data Item Description Number	DID-TST-02		
4	Reference	SOW Section 5.2.29.1		
5	First Submission	CDR – 10wd		
6	Number of Copies/Format	1 / Soft Copy in MS Office and .PDF		
7	Delivery Venue	Email		
8	PM Review/Approval Required	Yes/Yes		
9	Approval Lead Time	10 wd / 10 wd		
10	Subsequent Submission	N/A		
11	Remarks	Review and Approval run concurrently		

1	Sequence Number	TST-06		
2	Title or Description Number	NOT USED		
3	Data Item Description Number	DID-TST-03		
4	Reference			
5	First Submission	N&V Test + 10 wd		
6	Number of Copies/Format	1 / Soft Copy in MS Office and .PDF		
7	Delivery Venue	Email		
8	PM Review/Approval Required	Yes/Yes		
9	Approval Lead Time	10 wd / 10 wd		
10	Subsequent Submission	N/A		
11	Remarks	Review and Approval run concurrently		

1	Sequence Number	TST-07	
2	Title or Description Number	Shock Qualifications Test Report	
3	Data Item Description Number	DID-TST-03	
4	Reference	SOW Section 5.2.33.2.1	
5	First Submission	Shock Test + 10 wd	
6	Number of Copies/Format	1 / Soft Copy in MS Office and .PDF	
7	Delivery Venue	Email	
8	PM Review/Approval Required	Yes/Yes	
9	Approval Lead Time	10 wd / 10 wd	
10	Subsequent Submission	N/A	
11	Remarks	Review and Approval run concurrently	

1	Sequence Number	TST-08		
2	Title or Description Number	First Article System Qualification Test Report		
3	Data Item Description Number	DID-TST-04		
4	Reference	SOW Section 5.2.34.1		
5	First Submission	Last FAS Test + 20 wd		
6	Number of Copies/Format	1 / Soft Copy in MS Office and .PDF		
7	Delivery Venue	Email		
8	PM Review/Approval Required	Yes/Yes		
9	Approval Lead Time	10 wd / 10 wd		
10	Subsequent Submission	N/A		
11	Remarks	Review and Approval run concurrently		

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3.4 Production CDRL Details

1	Sequence Number	PROD - 01		
2	Title or Description Number	FAT Report		
3	Data Item Description Number	DID-TST-03		
4	Reference	SOW Section 6.2.2.3.1		
5	First Submission	FAT + 10wd		
6	Number of Copies/Format	1 / Soft Copy in MS Office and .PDF		
7	Delivery Venue	Email		
8	PM Review/Approval Required	Yes/Yes		
9	Approval Lead Time	10 wd / 10 wd		
10	Subsequent Submission	N/A		
11	Remarks	Review and Approval run concurrently		

3.5 Installation, STW and Acceptance CDRL Details

1	Sequence Number	ISW-01		
2	Title or Description Number	Installation & Acceptance Test Plan (IA PLN)		
3	Data Item Description Number	DID-ISW-01		
4	Reference	SOW Section 7.2.1.1		
5	First Submission	CDR -10wd		
6	Number of Copies/Format	1 / Soft Copy in MS Office and .PDF		
7	Delivery Venue	Email or FTP		
8	PM Review/Approval Required	Yes/Yes		
9	Approval Lead Time	10 wd / 10 wd		
10	Subsequent Submission	N/A		
11	Remarks	Review and Approval run concurrently		

1	Sequence Number	ISW - 02	
2	Title or Description Number	Installation/Set to Work Procedures	
3	Data Item Description Number	DID-ISWT-02	
4	Reference	SOW Section 7.2.2.1	
5	First Submission	CDR -10wd	
6	Number of Copies/Format	1 / Soft Copy in MS Office and .PDF	
7	Delivery Venue	Email or FTP	
8	PM Review/Approval Required	Yes/Yes	
9	Approval Lead Time	10 wd / 10 wd	
10	Subsequent Submission	N/A	
11	Remarks	Review and Approval run concurrently	

1	Sequence Number	ISW - 03		
2	Title or Description Number	Harbour Acceptance Test Procedures		
3	Data Item Description Number	DID-ISW-03		
4	Reference	SOW Section 7.2.3.1		
5	First Submission	CDR - 10wd		
6	Number of Copies/Format	1 / Soft Copy in MS Office and .PDF		
7	Delivery Venue	Email or FTP		
8	PM Review/Approval Required	Yes/Yes		
9	Approval Lead Time	10 wd / 10 wd		
10	Subsequent Submission	N/A		
11	Remarks	Review and Approval run concurrently		

ISW – 04 NOT USED

1 115/10	CALLEY IMPROVEMENT FOR THE VCC	CDDI	Revision	Date
Annex A-Appendix 1 15/19	GALLEY IMPROVEMENT FOR THE VCS	CDRL	Draft	25 May 2022

W8472-235880

Buyer ID - Id de l'acheteur 8715100 CCC No./N° CCC - FMS No./N° VME

1	Sequence Number	ISW - 05
2	Title or Description Number	Installation and Set to Work FSR Report
3	Data Item Description Number	DID-ISW-00
4	Reference	SOW Section 7.3.2.2.1
5	First Submission	FOC and 1s FOS ISW +10wd
6	Number of Copies/Format	1 / Soft Copy in MS Office and .PDF
7	Delivery Venue	Email or FTP
8	PM Review/Approval Required	Yes/Yes
9	Approval Lead Time	10 wd / 10 wd
10	Subsequent Submission	N/A
11	Remarks	Review and Approval run concurrently

1	Sequence Number	ISW - 06
2	Title or Description Number	Harbour Acceptance Test FSR Report
3	Data Item Description Number	DID-ISW-00
4	Reference	SOW Section 7.3.3.2.1
5	First Submission	FOC and 1st FOS HAT +10wd
6	Number of Copies/Format	1 / Soft Copy in MS Office and .PDF
7	Delivery Venue	Email or FTP
8	PM Review/Approval Required	Yes/Yes
9	Approval Lead Time	10 wd / 10 wd
10	Subsequent Submission	N/A
11	Remarks	Review and Approval run concurrently

3.6 Quality Assurance Deliverables Summary

1	Sequence Number	QA- 01
2	Title or Description Number	Request for Design Change/Deviation
3	Data Item Description Number	N/A IAW the reference
4	Reference	SOW Section 8.4.1.1.1
5	First Submission	Event + 5wd
6	Number of Copies/Format	1 / Soft Copy in MS Office and .PDF
7	Delivery Venue	Email
8	PM Review/Approval Required	Yes/Yes
9	Approval Lead Time	10 wd / 10 wd
10	Subsequent Submission	N/A
11	Remarks	Review and Approval run concurrently

1	Sequence Number	QA- 02
2	Title or Description Number	Request for Waiver
3	Data Item Description Number	N/A IAW the reference
4	Reference	SOW Section 8.4.2.1.1
5	First Submission	Event + 5wd
6	Number of Copies/Format	1 / Soft Copy in MS Office and .PDF
7	Delivery Venue	Email
8	PM Review/Approval Required	Yes/Yes
9	Approval Lead Time	10 wd / 10 wd
10	Subsequent Submission	N/A
11	Remarks	Review and Approval run concurrently

1 1 1 6/10	CALLEY IMPROVEMENT FOR THE MCC	CDDI	Revision	Date
Annex A-Appendix I 16/19	GALLEY IMPROVEMENT FOR THE VCS	CDRL	Draft	25 May 2022

W8472-235880

Buyer ID - Id de l'acheteur 8715100 CCC No./N° CCC - FMS No./N° VME

1	Sequence Number	QA- 03
2	Title or Description Number	Material Change Notice
3	Data Item Description Number	N/A IAW the reference
4	Reference	SOW Section 8.4.3.1
5	First Submission	Event + 5wd
6	Number of Copies/Format	1 / Soft Copy in MS Office and .PDF
7	Delivery Venue	Email
8	PM Review/Approval Required	Yes/Yes
9	Approval Lead Time	10 wd / 10 wd
10	Subsequent Submission	N/A
11	Remarks	Review and Approval run concurrently

3.7 Configuration Management CDRL Details

1	Sequence Number	CM - 01
2	Title or Description Number	Configuration Status Accounts
3	Data Item Description Number	DID-CM-01
4	Reference	SOW Section 9.2.1.1
5	First Submission	PDR – 10 WD
6	Number of Copies/Format	1 / Soft Copy in MS Excel data and .PDF
7	Delivery Venue	Email
8	PM Review/Approval Required	Yes/Yes
9	Approval Lead Time	10 wd / 10 wd
10	Subsequent Submission	PDR, CDR, PRR – 10wd, Production Complete + 20
		wd
11	Remarks	Review and Approval run concurrently

1	Sequence Number	CM - 02
2	Title or Description Number	Configuration Status Account Report
3	Data Item Description Number	DID-CM-02
4	Reference	SOW Section 9.3.3.1
5	First Submission	PDR – 10 WD
6	Number of Copies/Format	1 / Soft Copy in MS Office data and .PDF
7	Delivery Venue	Email
8	PM Review/Approval Required	Yes/Yes
9	Approval Lead Time	10 wd / 10 wd
10	Subsequent Submission	PDR, CDR, PRR – 10wd, Production Complete + 20
		wd
11	Remarks	Review and Approval run concurrently

3.8 Integrated Logistics Support CDRL Summary

1	Sequence Number	ILS -01
2	Title or Description Number	Naval Preventive Maintenance Schedules
3	Data Item Description Number	DID-ILS - 01
4	Reference	SOW Section 10.2.1.1
5	First Submission	PRR – 10 wd
6	Number of Copies/Format	1 / Soft Copy in MS Office and .PDF
7	Delivery Venue	Email or FTP
8	PM Review/Approval Required	Yes/Yes
9	Approval Lead Time	60 wd /60 wd
10	Subsequent Submission	N/A
11	Remarks	Review and Approval run concurrently

1: 1.17/10	CALLEY IMPROVEMENT FOR THE MCC	CDDI	Revision	Date
Annex A-Appendix 1 17/19	GALLEY IMPROVEMENT FOR THE VCS	CDRL	Draft	25 May 2022

Buyer ID - Id de l'acheteur 8715100 CCC No./N° CCC - FMS No./N° VME

1	Sequence Number	ILS -02
2	Title or Description Number	Standard Ship Maintenance and Repair
		Specifications
3	Data Item Description Number	DID-ILS - 02
4	Reference	SOW Section 10.2.2.1
5	First Submission	PRR – 10 wd
6	Number of Copies/Format	1 / Soft Copy in MS Office and .PDF
7	Delivery Venue	Email or FTP
8	PM Review/Approval Required	Yes/Yes
9	Approval Lead Time	60 wd /60 wd
10	Subsequent Submission	N/A
11	Remarks	Review and Approval run concurrently

1	Sequence Number	ILS -03
2	Title or Description Number	Technical Data Packages
3	Data Item Description Number	DID-ILS - 03
4	Reference	SOW Section 10.2.3.1
5	First Submission	1 st Deliveries + 10 wd
6	Number of Copies/Format	1 / Soft Copy in Source data and .PDF
7	Delivery Venue	Email or FTP
8	PM Review/Approval Required	Yes/Yes
9	Approval Lead Time	20 wd 20 wd
10	Subsequent Submission	N/A
11	Remarks	Review and Approval run concurrently

1	Sequence Number	ILS -04
2	Title or Description Number	Recommended Spare Parts Lists
3	Data Item Description Number	DID-ILS -04
4	Reference	SOW Section 10.2.5.1.1
5	First Submission	CDR -10 wd
6	Number of Copies/Format	1 / Soft Copy in MS Excel and .PDF
7	Delivery Venue	Email or FTP
8	PM Review/Approval Required	Yes/Yes
9	Approval Lead Time	20 wd 20 wd
10	Subsequent Submission	N/A
11	Remarks	Review and Approval run concurrently

1	Sequence Number	ILS -05
2	2 Title or Description Number Provisioning Parts Breakdowns	
3	Data Item Description Number	DID-ILS -05
4	Reference	SOW Section 10.2.5.6
5	First Submission	With delivery
6	Number of Copies/Format	1 / Soft Copy in MS Excel and .PDF
7	Delivery Venue	Email or FTP
8	PM Review/Approval Required	Yes/Yes
9	Approval Lead Time	20 wd 20 wd
10	Subsequent Submission	N/A
11	Remarks	Review and Approval run concurrently

Solicitation No. - N° de l'invitation W8472-235880/A Client Ref. No. - N° de réf. du client W8472-235880

Amd. No. - N° de la modif.

File No. - N° du dossier W8472-235880

Buyer ID - Id de l'acheteur 8715100 CCC No./N° CCC - FMS No./N° VME

- 1				
	1	Sequence Number	ILS -06	
	2	Title or Description Number	Contract End Item List	
	3	Data Item Description Number	DID-ILS - 06	
	4	Reference	SOW Section 10.2.6.6.1	
	5	First Submission	With final delivery	
	6	Number of Copies/Format	1 / Soft Copy MS Excel and .PDF	
	7	Delivery Venue	Email or FTP	
	8	PM Review/Approval Required	Yes/Yes	
	9	Approval Lead Time	20 wd 20 wd	
	10	Subsequent Submission	N/A	
	11	Remarks	Review and Approval run concurrently	

1	Sequence Number	ILS -07	
2	Title or Description Number	Technical Manual	
3	Data Item Description Number	DID-ILS -07	
4	Reference	SOW Section 10.2.7.1	
5	First Submission	PRR – 10 wd	
6	Number of Copies/Format	1 / Soft Copy in MS Office and .PDF	
7	Delivery Venue	Email or FTP	
8	PM Review/Approval Required	Yes/Yes	
9	Approval Lead Time	20 wd 20 wd	
10	Subsequent Submission	N/A	
11	Remarks	Review and Approval run concurrently	

Buyer ID - Id de l'acheteur 8715100 CCC No./N° CCC - FMS No./N° VME

File No. - N° du dossier W8472-235880

ANNEX A

APPENDIX 2

DATA ITEM DESCRIPTIONS

GALLEY IMPROVEMENT

FOR THE

VICTORIA CLASS SUBMARINES



NOTICE

This documentation has been reviewed by the technical authority and does not contain controlled goods. Disclosure notices and handling instructions originally received with the document must continue to apply.

AVIS

Cette documentation a été révisée par l'autorité technique et ne contient pas de marchandises contrôlées. Les avis de divulgation et les instructions de manutention reçues originalement doivent continuer de s'appliquer.

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LIST OF EFFECTIVE PAGES

Insert latest changed pages, dispose of superseded pages In Accordance With (IAW) applicable orders.

NOTE

On a changed page, the portion of the text affected by the latest change is indicated by a vertical line in the margin of the page.

Date of issue for original and changed pages are:

Original DD Month 2022 Change DD Month 20XX

A zero in Change No. column indicates an original page. The Total number of pages in this Appendix 2 DIDs is 88 consisting of the following:

Page No. Change No. All Original

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	DESIGN AND ENGINEERING DIDS	
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3.		
3.	·	
3.	, , ,	
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	11 DID-ENG-11 First Article System Design Report	
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1 SCOPE

1.1 Purpose

1.1.1 The purpose of the Galley Improvement Data Item Descriptions (DID) is to provide descriptions and associated preparation instructions of the Contract data deliverables found in Appendix 1 to this SOW.

2 PROJECT MANAGEMENT DIDS

2.1 DID-PM-01 Project Management Plan

1. TITLE 2. IDENTIFICATION NU			NUMBER		
	Management Plan	DID-PM-01			
3. DES	CRIPTION/PURPOSE				
	ject's Project Management Plan (PMP) descri <mark>t</mark>				
	ng the development and implementation of the				
	al and supporting processes and activities. The				
	e a baseline work plan that is basis for project		IP defines the		
	ation and infrastructure required to execute the				
4. APPI	ROVAL DATE 5. OFFICE OF PRIMARY IN	NTEREST (OPI)	6. SOW SECTION		
	Project Authority SM 4-2	0	4044		
7 400	Technical Authority SM 4-2-	-0	4.2.1.1		
	LICATION/INTERRELATIONSHIP: IP may be used in conjunction with DID-PM-02) Mark Breakdown Stru	icture DID DM 03		
	Schedule, and DID – PM – 05 Progress Repor		icture, DID-PW -03,		
	SINATOR	9. APPLICABLE FOR	RMS.		
	Manager SM 4-2-7	J. ALLEIOABLE LOI	WO.		
	RATION INSTRUCTIONS				
	Reference: ISO 21500: 212 -Guidance on P	roject Management			
10.1	Format: The Project Management Plan (PMP) shall be prepared in Contractor's format using Microsoft (MS) Word.				
10.2	Content: Contractor Defined, but using the reference as a guide, should as a minimum include the following sections:				
	1. Overview:				
	a. Project Summary;				
	i. Purpose, Scope, Objectives;				
	ii. Assumptions and Constraints;				
	iii. Project Deliverables; and				
	iv. Master Schedule and Budget (if applicable) Summary.				
	b. Evolution of the Plan; and				
	c. Document Structure.				
	2. References:				
	a. Standards and Documents; and				
	b. Deviation and Waivers.				
	3. Definitions.				

Buyer ID - Id de l'acheteur 8715100 CCC No./N° CCC - FMS No./N° VME

- a. Project Organization, Roles and Responsibilities;
- b. Project Interfaces with External Organizations;
- c. Project Interfaces with Internal Organizations;
- 5. Management Processes:
 - a. Start Up:
 - i. Estimations;
 - ii. Staffing;
 - iii. Resource Acquisitions; and
 - iv. Staff Training.
 - b. Work planning:
 - i. Work Activities;
 - ii. Schedule Allocation;
 - iii. Resource Allocation; and
 - iv. Budget (if applicable) Allocation.
 - c. Project Controls:
 - i. Requirement Control;
 - ii. Schedule Control:
 - iii. Budget (if applicable) Control;
 - iv. Quality Control; and
 - v. Project Reporting Communications.
 - d. Contracts/Subcontracts;
 - e. Risk and Issue Management; and
 - f. Project Close Out.
- 6. Technical Process:
 - a. Product Design Development:
 - i. Methods, Tools and Techniques; and
 - ii. Infrastructure.
 - b. Product Qualifications;
 - c. Production:
 - i. Methods, tools and Techniques; and
 - ii. Infrastructure.
- 7. Installation Support Services.
- 8. Supporting Process:
 - a. Problem Resolution;
 - b. Subcontractor Management;
 - c. Documentation Control;
 - d. Testing;
 - e. Integrated Logistic Support;
 - f. Configuration Management;
 - g. Quality Assurance; and
 - h. Review and Audits.
- 9. Appendices (delivered once with the PMP):
 - a. Project Work Breakdown Structure.
- 10. Attachments (delivered initially with the PMP, then updated if required throughout the project):
 - a. Project Schedule;
 - b. Project Supplies Deliverable Register;
 - c. Project Risk Register;
 - d. Project Issues/Action Register;
 - e. Project Data deliverables Register; and
 - f. Project Communication Directory.
- 11. Enclosures (delivered once with the PMP):
 - a. Subcontractor Project Management Plan.

Annex A-Appendix 2 6/62	GALLEY IMPROVEMENT FOR THE VCS	DIDs	Revision Draft	Date 25 May 2022
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$$\label{eq:continuous} \begin{split} & \text{Solicitation No. - N}^{\circ} \text{ de l'invitation} \\ & W8472-235880/A \\ & \text{Client Ref. No. - N}^{\circ} \text{ de réf. du client} \\ & W8472-235880 \end{split}$$

Amd. No. - N° de la modif.

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10.3	Delivery Instructions, Review and Appr 1. Number of Copies/Format: 2. Delivery Venue: 3. First Submission: 4. PM review/Approval: 5. Review/Approval Lead time: 6. Subsequent Submission: 7. Remarks:	oval Requirements: 1 soft copy/MS Office and .PDF email With proposal Yes/No NA/NA PKO-10wd if updates required NA

Buyer ID - Id de l'acheteur 8715100

CCC No./N° CCC - FMS No./N° VME

2.2 DID-PM-02 Work Breakdown Structure

1.TITLE		2.IDENTIFICATION NUMBER				
Work Breakdown Structure		DID-PM-02				
3.DESCRII	PTION/PURPO	SE	•			
related, pro	The project's project Work Breakdown Structure (WBS) defines the project in terms of hierarchically related, product-oriented elements. Each element provides logical summary levels for assessing technical accomplishments, supporting the required event-based technical reviews and measuring cost and schedule performance.					
4. APPRO	VAL DATE	5. OFFICE OF PRIMAR Project Authority SM Technical Authority SM	4-2	6. SOW SECTION 4.2.2.1		
THE WBS	may be used in	RELATIONSHIP I conjunction with the cor D-PM-03 Project Schedu	ntract Statement of Wor	rk, DID-PM – 01 Project		
8. ORIGINA	-	_	9. APPLICABLE FO	RMS		
	nager SM 4-2- TION INSTRU					
PREPARA	TION INSTRUC	STIONS				
	Reference:	MIL-STD-188C dated 3	Oct 2011			
10.1	Format: The	Project WBS shall be pre	epared in contractor's fo	ormat in MS Office.		
10.2	Content: The Contractor shall structure the WBS using the reference as guide. The goal is to develop a WBS that defines the logical relationship among all project elements to a specific level (typically 3) of indenture that does not constrain the Contractor's ability to define or manage the project or resources.					
10.3	Delivery Instructions, Review and Approval Requirements:					
	1. Number of Copies/Format: 2. Delivery Venue: 3. First Submission: 4. PM review/Approval: 5. Review/Approval Lead time: 6. Subsequent Submission: 7. Remarks: 1 soft copy/MS Office and .PDF email With proposal Yes/No NA/NA PKO -10wd if updates required NA					

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8/15100 CCC No./N° CCC - FMS No./N° VME

2.3 DID-PM-03 Project Schedule

1.TITLE					
	Project Schedule DID-PM-03				
	3. DESCRIPTION/PURPOSE				
	t's Project Schedule (PS) is to descri				
	escribed in the contract's Statement				
4. APPRO		MARY INTEREST (OPI)	6. SOW SECTION		
		SM 4-2	4.2.3.1		
7 ADDLIC	Technical Authority ATION/INTERRELATIONSHIP	SIVI 4-2-6			
_	may be used in conjunction with the	contract Statement of Wor	-k DID PM 01 Project		
	ent Plan, DID-PM -02, Work Breakdo				
ORIGINAT		9. APPLICABLE FO			
	nager SM 4-2-7	3.711 FEIGNBEET GI	Tivio		
	ARATION INSTRUCTIONS				
	Reference: MIL-STD-188C dated	3 Oct 2011			
10.1	Format: The Project Schedule sha	ll be prepared in contracto	r's format in Microsoft Project.		
	Content: The PS must contain the				
10.2	and discreet tasks/activities (include				
	award to the completion of the contract. The schedule shall be in Gantt Chart format. It				
	shall be an integrated, logical netw				
	3, applies the critical path method, and is vertically and horizontally traceable to the				
	cost/schedule reporting instrument used to address variances (if applicable). The schedule shall have a numbering system that provides traceability to the SOW. It shall contain				
	contractual deliverables, milestone and detailed schedules and period				
	data that enables the user to access	es the information by produ	ict process or organizational		
	lines.	ss the illiorniation by prout	doi, process or organizational		
	Delivery Instructions, Review and Approval Requirements:				
10.3	Number of Copies/Format:	1 soft copy/MS Project a	and .PDF		
	2. Delivery Venue:	email			
	3. First Submission:	With proposal			
	4. PM review/Approval:	Yes/No			
	5. Review/Approval Lead time:	NA/NA			
	6. Subsequent Submission:	PKO-10wd if updates re	equired		
	7 .Remarks:	NA			

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80 C0

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2.4 DID-PM-04 Progress Reports

1.TITLE		2. IDENTIFICATION NUM	BER			
Progress		DID-PM-04				
	PTION/PURPOSE					
) is to document the status of the (
achieving the contract's objectives. It defines accomplishment to date and difficulties encountered, and compares the status achieved to planned goals and resources expended. It is used by Canada to						
	res the status achieved to pla I evaluate the progress of the		ed. It is used by Canada to			
4. APPRO\		OF PRIMARY INTEREST (OPI)	6. SOW SECTION			
4. Al 1 100	Project Au	,	4.3.1.1			
		Authority SM 4-2-6	1.0.1.1			
7. APPLICA	ATION/INTERRELATIONSHI					
The PR ma	y be used in conjunction with	the Contract Statement of Work, I	DID-PM – 01-Project			
		chedule, DID-PM-04-Project Risk	Register, and DID-PM-08			
	on Item List.					
8.ORIGINA	_	9. APPLICABLE FORMS				
Project Mai	nager SM 4-2-7 RATION INSTRUCTIONS					
10. PREPA	RATION INSTRUCTIONS					
	Format: The PR shall be pro	epared in contractor's format using	Microsoft Office.			
		,pa. 24 22 a. 21 a. 12g				
10.1	Contents: The content of the	e PSR shall as a minimum include				
10.2		the Contractor's progress during th	ne reporting period;			
	2. Review of Milestones/ta					
		view and variation and planned ac	tivities for the next			
	reporting period;					
	4. Review of Arising and Open Issues/Actions;5. Review of Arising and Open Risks;					
	6. Review of resources and					
	7. Other Matters.	i ilianolai Otatao, ana				
10.3	0.3 Delivery Instructions, Review and Approval Requirements:					
	Number of Copies/Format: 1 soft copy/MS Office and .PDF					
	2. Delivery Venue: email					
	3. First Submission: 5wd prior to the first Monthly PRM					
	4. PM review/Approval: Yes/No 5. Review/Approval Lead time: 5wd/NA					
	6. Subsequent Submission:	Monthly 5wd prior to the PR	М			
	7. Remarks:	NA				

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2.5 DID-PM-05 Meeting Agenda

			2. IDENTIFICATION NUMB	ER		
Meeting Age	enda		DID-PM-05			
	TION/PURPOSE		Anning for discounting decimal	41		
			topics for discussions during			
4. APPROVA	ALDATE		PRIMARY INTEREST (OPI)	6. SOW SECTION		
		Project Manage		4.5.3.1		
	Technical Authority SM 4-2-6 7. APPLICATION/INTERRELATIONSHIP					
	•					
			II project meetings and review			
	by teleconference o -07 Meeting Minutes		ce. The Meeting Agenda may	be used in conjunction		
8.ORIGINAT		<u>.</u>	9. APPLICABLE FORMS			
	ager SM 4-2-7		3. ALL EIGABLE I GRIVIO			
10 0000	RATION INSTRUCTI	ONS	I			
IU. FREFAR		ONO				
10.1	Format: The Mooti	na Agenda shall	be prepared in contractor's fo	rmat using Microsoft		
10.1	Office.	ng Agenua shali	be prepared in contractor's to	imat using Microsoft		
	Office.					
10.2	Contents: The con	tent of the Meeti	ng Agenda shall as a minimun	n include:		
10.2	Contents. The con	terit of the Meetil	ng Agenda shall as a millimul	ii iiicidde.		
	1 Purpose of the	meeting:				
	Purpose of the meeting; Time data leasting and expected duration of the meeting.					
	2. Time, date, location, and expected duration of the meeting;3. List of expected attendees;					
	4. Security Requi		vactings			
				_1		
			provided for the attendees; and			
	6. List meeting supporting documentation, including Minutes of the previous meeting					
	and associated Action item List, Documents to be reviewed during the meeting (e.g.					
	Progress Reports, Reviews or Other Reports).					
	NOTE: The Centre	eter ie te engure	that adaquate conice of most	ings supporting		
			that adequate copies of meet	ings supporting		
	documentation are available for attendees at the meeting.					
10.3	Dolivory Instruction	as Poviou and A	Approval Paguiromento:			
10.3			Approval Requirements:	_		
	1. Number of Copi		soft copy/MS Office and .PDF	-		
	2. Delivery Venue:		email			
	3. First Submission		Meeting –5wd			
	4. PM Review/App		res/Yes			
	5. Review/Approva		5wd/5wd			
	6. Subsequent Sul		NA			
	7. Remarks:	F	Review and Approval Lead Tin	ne run concurrently		

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2.6 DID-PM-06 Meeting Minutes

1.TITLE			2. IDENTIFICATION NUMBER			
Meeting M	Inutes PTION/PURPOSE		DID-PM-06			
		nutos is to formal	ly record the discussions, agr	coments, and actions		
			and closure dates) during the			
4. APPRO			PRIMARY INTEREST (OPI)	6. SOW SECTION		
4.70110	VALDATE	Project Authority		4.5.4.1		
	Technical Authority SM 4-2-6					
7. APPLICA	7. APPLICATION/INTERRELATIONSHIP					
			all project meetings and revie	ews whether held		
physically o	or by teleconference	or video confere	nce. The Meeting Minutes ma	ay be used in		
	n with DID-PM-06 M		3			
8. ORIGINA	ATOR	<u> </u>	9. APPLICABLE FORMS			
Project Ma	nager SM 4-2-7					
10. PREPA	RATION INSTRUC	TIONS				
10.1		ing Minutes shall	be prepared in contractor's for	ormat using Microsoft		
	Office.					
40.0						
10.2	Contents: The cor	itent of the Meetir	ng Minutes shall as a minimur	m include:		
	4 Time 1 to 1 to 1					
	1. Time, date and			Desition Tolonhone		
	email);	es and their conta	act information (Organization,	Position, Telephone,		
	3. Purpose of the	mooting				
	4. Summary of A					
			enda: and			
	5. Meeting Agenda/Changes to agenda; and 6. For each item discussed:					
	a. A brief summary of the item; and					
			ction with respect to the item (and associated		
		led changes to A				
		J	,			
10.3	Delivery Instructions, Review and Approval Requirements:					
	1. Number of Cop	es/Format: 1	soft copy/MS Office and .PDI	=		
	2. Delivery Venue: email					
	3. First Submission: Meeting – 5wd					
	4. PM review/App	roval:	res/Yes			
	5. Review/Approv		5wd/5wd			
	6. Subsequent Su		NΑ			
	7. Remarks:	I	Review and Approval Lead Ti	me run concurrently		

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Buyer ID - Id de l'acheteur 8715100

8/151 CCC No

CCC No./N° CCC - FMS No./N° VME

2.7 DID-PM-07 Action Item List

1.TITLE			2. IDENTIFICATION NUMB	ER		
Action Item	List		DID-PM-07			
3. DESCRIP	TION/PURPOSE					
The purpose	of the Action Item	List (AIL) is to p	roject issues and the associate	ed actions to resolve		
them.		` , .	•			
4. APPROVA	. APPROVAL DATE 5. OFFICE OF PRIMARY INTEREST (OPI) 6. SOW SECTION					
		Project Manage	er SM 4-2	4.5.6.2		
		Technical Auth	ority SM 4-2-6			
7. APPLICAT	ΓΙΟΝ/INTERRELA	TIONSHIP				
			project meetings and reviews v			
or by telecon	ference or video of	onference. The	AIL may be used in conjunction	n with DID-PM-04		
Meeting Minu						
8.ORIGINAT	OR		9. APPLICABLE FORMS			
	ager SM 4-2-7					
	ATION INSTRUC					
10.1	Format: The AIL	must be prepare	ed in contractor's format using	Microsoft (MS) Excel.		
10.2	Contents: The c	ontent of the AIL	shall include in each row as a	minimum:		
	 Identification Number; Title or Description; Date Opened; Issue causing action item to be raised; Action required; Priority; 					
		ent of action take /closed); and	oonsible for taking action; n to date and associated resul	lts;		
	The Contractor i	nust ensure that	once entered into the AIL, no	entry is deleted.		
	The Contractor must include a subset of the AIL containing all open action items as an attachment to the Meeting Agenda.					
10.3		pies/Format: le: ion: proval: oval Lead time:	d Approval Requirements: 1 soft copy/MS Excel and .PE email With Meeting Minutes Yes/Yes 5wd/5wd With Meeting Minutes and if a by Canada Review and Approval Lead T concurrently	and as requested		

Buyer ID - Id de l'acheteur 8715100 CCC No./N $^{\circ}$ CCC - FMS No./N $^{\circ}$ VME

File No. - N° du dossier W8472-235880

3 DESIGN AND ENGINEERING DIDS

3.1 DID-ENG-00 Engineering Drawings, Associated Lists and CAD Models

1.TITLE		2. IDENTIFICATION NUMBER					
Engineerin	g Drawings, Associated Lists and CAD Models	DID-ENG-00					
3. DESCRII	3. DESCRIPTION/PURPOSE						
Lists and Calinformation may provide	Level 1 Drawings. Level 1, conceptual and Developmental Design. Engineering Drawings, Associated Lists and CAD Models prepared to this level shall, as a minimum, disclose engineering design information sufficient to evaluate an engineering concept as meeting stated military requirements, and may provide information sufficient to fabricate developmental hardware. These types of drawings generally consist of simple sketches, models, artist's renderings, and/or basic textual data.						
Associated approach s	wings. Level 2, Production Prototype and Limite Lists and CAD Models prepared to this level sh uitable to support the manufacture of a producti g drawings shall include, as applicable, manufac ses.	all disclose directly or by reference a design on prototype and limited production models.					
prepared to manufacture the end pro	wings. Level 3, Production Engineering Drawing this level shall provide engineering definition so er to produce and maintain quality control of the duct. They reflect approved, tested, and accept ovide the necessary data to permit competitive	e item. These Engineering Drawings reflect ed configuration of the defined delivered					
4. APPROV							
7. APPLICA	ATION/INTERRELATIONSHIP						
System/Sub Article and	eering Drawings, Associated Lists and CAD Moc o-System Specification, System/Subsystem Des Final Design Reports, Production Readiness Re Drawings, Associated Lists and CAD Models.	sign Documents, Preliminary, Detailed, First					
8. ORIGINA	ATOR 9. AP	PLICABLE FORMS					
	nager SM_4-2-7 RATION INSTRUCTIONS						
10.1	Format: 1. Commercial Off the Shelf Equipment/Systems-Contractor format in its native Model or Drawing format.						
	2. Contractor Developed Equipment/Systems-3D Models (see order of preference below) and /or ASME –Y14 Drawing Standards in the Contractor's sheet format.						
	Order of preference for 3D Models: 1. Solid Works part and assembly and or drawing files; 2. STEP format; or 3. IGES format.						
	3. 2 D drawings of flat items produced in softwidiagrams) should be prepared in DWG OR DX						

Annex A-Appendix 2 14/62	CALLEY IMPROVEMENT FOR THE VCC	DID-	Revision	Date
Annex A-Appendix 2 14/62	GALLEY IMPROVEMENT FOR THE VCS	DIDs	Draft	25 May 2022

Solicitation No. - N° de l'invitation W8472-235880/A Client Ref. No. - N° de réf. du client W8472-235880

File No. - N° du dossier

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur 8715100 CCC No./N° CCC - FMS No./N° VME

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10.2	Content: 1. COTS equipment – Level-1 Drawings comprised of available Manufacturers data Sheet and Outline and Installation Drawings and 3D Models. 2. Contractor Developed Equipment – Level 2 Drawings and 3D Models. 3. For all drawings items on the drawing parts list considered to be First Level in accordance C-23-VIC-000/AM-001 shall be annotated as First Level.				
10.3	Delivery Instructions, Review and	d Approval Requirements:			
	 Number of Copies/Format: Delivery Venue: First Submission: PM review/Approval: Review/Approval Lead time: Subsequent Submission: Remarks: 	1 soft copy/in model or drawing format and .PDF email With PD Report Yes/Yes 10wd/10wd With CD, FASD,FD Reports, and with TDP Review and Approval run concurrently			

Buyer ID - Id de l'acheteur 8715100 CCC No./N° CCC - FMS No./N° VME

File No. - N° du dossier W8472-235880

3.2 DID-ENG-01 System Boundaries Report

1.TITLE		2. IDENTIFICATION NUMBER					
System Bo	Boundaries Report DID-ENG-01						
	PTION/PURPOSE						
Survey. It i between sy proposed t The SBD w 4. APPRO	rpose of the System Boundaries (SB) report is to capture the results of the Contractor's Boat . It includes a System Boundary Diagram (SBD) that fully defines the boundaries that exist in system elements for the Contractor's system, how the Contractor's system or equipment is ed to interface with the submarine and other external "to the Contractor's system" equipment. BD will link the reader to the applicable engineering drawing or interface control drawing (ICD). ROVAL DATE 5. OFFICE OF PRIMARY INTEREST (OPI) Project Authority SM 4-2 Technical Authority SM 4-2-6 LICATION/INTERRELATIONSHIP						
	port may be used in conjunction with DID-ENG-0 ystem/Subsystem Design Documents.	03 System/Sub-System Specifications, DID-					
8. ORIGIN	ATOR 9. APF	PLICABLE FORMS					
	nager SM 4-2-7 ARATION INSTRUCTIONS						
IU. PREPA	ARATION INSTRUCTIONS						
10.1	Format: The System Boundaries Report sha MS Office, Included SBDs shall be in MS VISE						
10.2	Content: the content of the SB report shall as a	a minimum include:					
	Introduction: a. Background;						
	b. Scope; and						
	c. Objective.						
	2. System description;3. System Boundaries Identification;						
	4. Results;						
	5. Conclusions;						
	6. Recommendations; and 7. Annexes:						
	a. Annex A-System Boundaries Diagram	(BD) (see below for content).					
	BOUNDARY DIAGRAM CONTENT						
	Level 1 BD. A level 1 BD shall be used to illustrate the interactions between multiple systems. The Level 1 BD is a high level illustration of system boundaries and include the following content:						
	a. It defines the interfaces between the System/Equipment and external elements to						
	that systems; and b. It illustrate key functional locations i.e. pressure hull, inboard versus outboard system elements.						
	Level 2 BD. The Level 2 BD shall show the item may have more than one interface in a uniquely identified as to the following type (a. Mechanical-include mounting and any nof the system;	a system; however, each interface shall be (as applicable):					

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b. Cable-include power and signal; c. Pneumatic;

- d. Hydraulic;
- e. Chilled Water;
- f. HVAC Direct Forced Air Cooling; and
- g. Envelope (volume, externat dimensions).
- 2. A boundary line or leader line shall appear close to one of the items, not in the middle to clearly represent which item includes the interface detail between the two items;
- 3. The BD describes the top-level interfaces. Lower level or subordinate interfaces will be documented on separate sheets within the BD or referenced lower level BD; and
- 4. The BD shall be developed in MS VISIO as a block diagram. Detailed information for specific interfaces (i.e. dimensions, scale size, GD &T etc.) shall be contained in a referenced Interface Control Drawing.

10.3 Delivery Instructions, Review and Approval Requirements:

1. Number of Copies/Format: 1 soft copy/MS Office or dwg format and .PDF

2. Delivery Venue: email

3. First Submission: Boat Survey +15wd

4. TA Review/Approval: Yes/Yes 5. Review/Approval: 10wd/10wd

6. Subsequent Submission: NA 7. Remarks: Review and Approval run concurrently

CCC No./N° CCC - FMS No./N° VME

3.3 DID-ENG-02 Systems Requirements Review Report

1.TITLE				2. IDENTIFICATION NUMBER		
	quirements Revi			DID-ENG-02		
3. DESCR	IPTION/PURPO	SE				
The purpose of the System Requirement Review Report (SRR) is for the Contractor to present the						
material tha	at will be reviewe	ed with Canada a	t the SRR Me	eting. The SRR	meeting is a formal review	
conducted to ensure that system requirements have been properly identified and that a mutual						
					the system under review can	
proceed int	to initial system o	levelopment and	all system an	d performance r	equirements derived from the	
TSOR are	defined and testa	able.	•	·	·	
4. APPRO	VAL DATE	5. OFFICE OF	PRIMARY IN	EREST (OPI)	6. SOW SECTION	
		Project Authorit		,	5.2.4.1	
		Technical Auth				
7. APPLICA	ATION/INTERRE		<u> </u>			
1.7.1. 2.07		22, 11101101111				
The SRR F	Report may be us	sed in conjunction	n with SOW T	SOR, and the S	RR Meeting	
8. ORIGINA				LICABLE FORM		
	nager SM 4-2-7		J. Al I	L.S. DEL I OIN		
	RATION INSTR	UCTIONS	I			
10.11\L17		00110140				
10.1	Format: SRR F	Penort shall he n	renared in cor	tractor's format	using MS Office.	
10.1		ontent of the SRF				
10.2		eview Items of S			cidde.	
10.2		commend chang				
					ities and for addition their	
			ms/deletions t	b existing quanti	ities and for addition their	
	quantities.					
	2.Section 2-Re			LD.		
		commend chang				
					al Requirements;	
					nical Requirements; and	
		commend verification	ation method f	or Technical Re	quirements.	
	3.Section 3-Re					
		commend chang				
					equirements; and	
		commend deletic	ons to existing	SOW Requirem	ents.	
	4.Section 4 – F					
		Progress Report				
		applicable) Statu				
	c. Resource Status Report; and					
		sk Status Report				
	5. Enclosures (see their separate CDRLs and associated DIDs):					
	a. Boat Survey Reports.					
		ctions, Review a				
10.3		Copies/Format:	1 soft copy/N	IS Office and .P	PDF	
	2. Delivery Ve	enue:	email			
	First Submit	ission:	PDR –10wd			
	4. TA Review	/Approval:	Yes/Yes			
	5. Review/App	• •	10wd/Review	v Event +10wd		
	6. Subsequen		CDR -10wd	PRR-10wd, and	d with TDP	
	7. Remarks:		NA	,		
·			• • •			

Annex A-Appendix 2 18/62	GALLEY IMPROVEMENT FOR THE VCS	DIDa	Revision	Date
Annex A-Appendix 2 18/62	GALLEY IMPROVEMENT FOR THE VCS	DIDs	Draft	25 May 2022

3.4 DID-ENG-03 System/Sub-System Specifications

1.TITLE System/Sub-System Specification 3. DESCRIPTION/PURPOSE The System/Sub-System Specification (SSSS) provides a comprehensive description of the technical requirements for material, equipment and services. 4. APPROVAL DATE 5. OFFICE OF PRIMARY INTEREST (OPI) Project Authority SM 4-2.6 7. APPLICATION/INTERRELATIONSHIP The SSSS may be used in conjunction with the Technical Statement of Requirements (TSOR) Requirement Verification Cross Reference Matrix (RVCRM), and System/Subsystem Design Documents. 8. ORIGINATOR Project Manager SM 4-2-7 10. PREPARATION INSTRUCTIONS Reference: MIL-STD-961E Defense and Program-Unique Specifications Format and Content 10.1 Format: the SSSS shall be using the reference as a guide, prepared in Contractor's form in MS Office. 10.2 Content: The SSSS must be prepared using reference recommended content, as outline below as a guide. Where the SSSS is describing a COTS item, the COTS item's Data Sheet may be added as an Appendix and referenced in the main body of the specifications. 1. Section 1 Section 1 Section 1 Section 1 Section 1 Section 1 Section 2 Applicable Documents; 3. Section 3 Requirements: a. General; b. Material; c. Performance; d. Design; e. Physical Characteristics; f. Interface, Interoperability and Compatibility; g. Process; h. Parts; i. Construction, Fabrication and Assembly j. Operating Characteristics; k. Workmanship; l. Reliability; m. Maintainability; and n. Environment Operating Requirements. 4. Section 4 Verification: a. General, b. First article;								
The System/Sub-System Specification (SSSS) provides a comprehensive description of the technical requirements for material, equipment and services. 4. APPROVAL DATE 5. OFFICE OF PRIMARY INTEREST (OPI) Project Authority SM 4-2 Technical Authority SM 4-2-6 7. APPLICATION/INTERRELATIONSHIP The SSSS may be used in conjunction with the Technical Statement of Requirements (TSOR) Requirement Verification Cross Reference Matrix (RVCRM), and System/Subsystem Design Documents. 8. ORIGINATOR Project Manager SM 4-2-7 10. PREPARATION INSTRUCTIONS Reference: MIL-STD-961E Defense and Program-Unique Specifications Format and Content 10.1 Format: the SSSS shall be using the reference as a guide, prepared in Contractor's form in MS Office. 10.2 Content: The SSSS must be prepared using reference recommended content, as outline below as a guide. Where the SSSS is describing a COTS item, the COTS item's Data Sheet may be added as an Appendix and referenced in the main body of the specifications. 1. Section 1 Section 1 –Scope; 2. Section 2 Applicable Documents; 3. Section 3 Requirements: a. General; b. Material; c. Performance; d. Design; e. Physical Characteristics; f. Interface, Interoperability and Compatibility; g. Process; h. Parts; i. Construction, Fabrication and Assembly j. Operating Characteristics; k. Workmanship; l. Reliability; m. Maintainability; and n. Environment Operating Requirements. 4. Section 4 Verification: a. General, b. First article;	1.TITLE		2. IDENTIFICATION NUMBER	BER				
The System/Sub-System Specification (SSSS) provides a comprehensive description of the technical requirements for material, equipment and services.	System/Su	b-System Specification	DID-ENG-03	DID-ENG-03				
requirements for material, equipment and services. 4. APPROVAL DATE 5. OFFICE OF PRIMARY INTEREST (OPI) Project Authority Project Authority SM 4-2 Technical Authority SM 4-2-6 7. APPLICATION/INTERRELATIONSHIP The SSSS may be used in conjunction with the Technical Statement of Requirements (TSOR) Requirement Verification Cross Reference Matrix (RVCRM), and System/Subsystem Design Documents. 8. ORIGINATOR Project Manager SM 4-2-7 10. PREPARATION INSTRUCTIONS Reference: MIL-STD-961E Defense and Program-Unique Specifications Format and Content Format: the SSSS shall be using the reference as a guide, prepared in Contractor's form in MS Office. Content: The SSSS must be prepared using reference recommended content, as outline below as a guide. Where the SSSS is describing a COTS item, the COTS item's Data Sheet may be added as an Appendix and referenced in the main body of the specifications. 1. Section 1 Section 1 —Scope; 2. Section 2 Applicable Documents; 3. Section 3 Requirements: a. General; b. Material; c. Performance; d. Design; e. Physical Characteristics; f. Interface, Interoperability and Compatibility; g. Process; h. Parts; i. Construction, Fabrication and Assembly j. Operating Characteristics; k. Workmanship; l. Reliability; m. Maintainability; and n. Environment Operating Requirements. 4. Section 4 Verification: a. General, b. First article;			DID 2110 00					
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S. OFFICE OF PRIMARY INTEREST (OPI) 6. SOW SECTION Project Authority SM 4-2-6								
Project Authority SM 4-2 5.2.6.1 Technical Authority SM 4-2-6 The SSSS may be used in conjunction with the Technical Statement of Requirements (TSOR) Requirement Verification Cross Reference Matrix (RVCRM), and System/Subsystem Design Documents. Requirement Verification Cross Reference Matrix (RVCRM), and System/Subsystem Design Documents. APPLICABLE FORMS Project Manager SM 4-2-7 Project Manager SM 4-2-								
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10. PREPARATION INSTRUCTIONS			9. APPLICABLE FORMS					
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Content Format: the SSSS shall be using the reference as a guide, prepared in Contractor's form in MS Office. Content: The SSSS must be prepared using reference recommended content, as outline below as a guide. Where the SSSS is describing a COTS item, the COTS item's Data Sheet may be added as an Appendix and referenced in the main body of the specifications. Section 1 Section 1 —Scope; Section 2 Applicable Documents; Section 3 Requirements: a. General; b. Material; c. Performance; d. Design; e. Physical Characteristics; f. Interface, Interoperability and Compatibility; g. Process; h. Parts; i. Construction, Fabrication and Assembly j. Operating Characteristics; k. Workmanship; l. Reliability; m. Maintainability; and n. Environment Operating Requirements. Section 4 Verification: a. General, b. First article;		Reference: MIL-STD-961F Defense	and Program-Unique Specifica	ations Format and				
in MS Office. Content: The SSSS must be prepared using reference recommended content, as outline below as a guide. Where the SSSS is describing a COTS item, the COTS item's Data Sheet may be added as an Appendix and referenced in the main body of the specifications. 1. Section 1 Section 1 –Scope; 2. Section 2 Applicable Documents; 3. Section 3 Requirements: a. General; b. Material; c. Performance; d. Design; e. Physical Characteristics; f. Interface, Interoperability and Compatibility; g. Process; h. Parts; i. Construction, Fabrication and Assembly j. Operating Characteristics; k. Workmanship; l. Reliability; m. Maintainability; and n. Environment Operating Requirements. 4. Section 4 Verification: a. General, b. First article;			and i rogram-omque opcomo	ations i office and				
in MS Office. Content: The SSSS must be prepared using reference recommended content, as outline below as a guide. Where the SSSS is describing a COTS item, the COTS item's Data Sheet may be added as an Appendix and referenced in the main body of the specifications. 1. Section 1 Section 1—Scope; 2. Section 2 Applicable Documents; 3. Section 3 Requirements: a. General; b. Material; c. Performance; d. Design; e. Physical Characteristics; f. Interface, Interoperability and Compatibility; g. Process; h. Parts; i. Construction, Fabrication and Assembly j. Operating Characteristics; k. Workmanship; l. Reliability; m. Maintainability; and n. Environment Operating Requirements. 4. Section 4 Verification: a. General, b. First article;	40.4							
below as a guide. Where the SSSS is describing a COTS item, the COTS item's Data Sheet may be added as an Appendix and referenced in the main body of the specifications. 1. Section 1 Section 1 –Scope; 2. Section 2 Applicable Documents; 3. Section 3 Requirements: a. General; b. Material; c. Performance; d. Design; e. Physical Characteristics; f. Interface, Interoperability and Compatibility; g. Process; h. Parts; i. Construction, Fabrication and Assembly j. Operating Characteristics; k. Workmanship; l. Reliability; m. Maintainability; and n. Environment Operating Requirements. 4. Section 4 Verification: a. General, b. First article;	10.1		reference as a guide, prepare	d in Contractor's format				
2. Section 2 Applicable Documents; 3. Section 3 Requirements: a. General; b. Material; c. Performance; d. Design; e. Physical Characteristics; f. Interface, Interoperability and Compatibility; g. Process; h. Parts; i. Construction, Fabrication and Assembly j. Operating Characteristics; k. Workmanship; l. Reliability; m. Maintainability; and n. Environment Operating Requirements. 4. Section 4 Verification: a. General, b. First article;	10.2	below as a guide. Where the SSSS Sheet may be added as an Appendi	s describing a COTS item, the	COTS item's Data				
c. Inspection Conditions; and d. Qualification.		2. Section 2 Applicable Documents 3. Section 3 Requirements: a. General; b. Material; c. Performance; d. Design; e. Physical Characteristics; f. Interface, Interoperability and g. Process; h. Parts; i. Construction, Fabrication and j. Operating Characteristics; k. Workmanship; l. Reliability; m. Maintainability; and n. Environment Operating Requ 4. Section 4 Verification: a. General, b. First article; c. Inspection Conditions; and	Compatibility; Assembly					

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Annex A-Appendix 2 19/62	GALLET IMPROVEMENT FOR THE VCS	DIDs	Draft	25 May 2022

$$\label{eq:continuous} \begin{split} & \text{Solicitation No. - N}^{\circ} \text{ de l'invitation} \\ & W8472-235880/A \\ & \text{Client Ref. No. - N}^{\circ} \text{ de réf. du client} \\ & W8472-235880 \end{split}$$

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	5. Section 5 Packaging; and 6. Section 6 Notes.	
10.3	Delivery Instructions, Review and Approval Requirements:	
	 Number of Copies/Format: Delivery Venue: First Submission: TA Review/Approval: Review/Approval: Subsequent Submission: Remarks: 	1 softcopy/MS Office and .PDF email PDR –10wd Yes/Yes 10wd/Review Event +10wd CDR –10wd, PRR-10wd, and with TDP NA

3.5 DID-ENG-04 System/Sub-System Design Document

1.TITLE			2. IDENTIFICATION NUMBER	
System/Sul	b-System Design Docu	ment	DID-ENG-04	
	3. DESCRIPTION/PURPOSE			
design and		n of a system (or	D) describes the system (or s subsystem). It may be supple scriptions (DBDDs).	
4. APPRO\	/AL DATE	5. OFFICE OF F Project Authority Technical Autho		6. SOW SECTION 5.2.7.1
7. APPLICA	ATION/INTERRELATIO	NSHIP		
of Requirer		uirement Verificat	tem/Subsystem Specification tion Cross Reference Matrix (
8.ORIGINA	.TOR nager SM 4-2-7		9. APPLICABLE FORMS	
10. PREPA	RATION INSTRUCTION	NS	L	
10.1	Format: the SSDD sh	all be prepared ir	Contractor's format in MS O	ffice.
10.2	Content: The SSDD r	must be prepared	using the below as a guide.	
	 Content: The SSDD must be prepared using the below as a guide. Section 1 – Scope: a. Identification; b. System Overview; c. Acronyms and Abbreviations; and d. Terminology. Section 2 -Applicable Documents Section 3 -System-Wide Design Decisions This section shall be divided into paragraphs as needed to present system-wide design decisions, and other decisions affecting the selection and design of system components. If all such decisions are explicit in the requirements or are deferred to the design of the system components, this section shall so state. Design decisions that respond to requirements designated critical, such as those for safety, security, or privacy, shall be placed in separate subparagraphs. If a design decision depends upon system states or modes, this dependency shall be indicated. Design conventions needed to understand the design shall be presented or referenced. Examples (there could be many others) of system-wide design decisions follow:		d design of system is or are deferred to . Design decisions for safety, security, or decision depends d. Design d or referenced. decisions follow: system architectural r modes, this ore than one ther paragraphs.	

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a. System Components -this paragraph shall identify:

- i. The components of the system (Hardware Configuration Items (HWCls), Computer Software Configuration Items (CSCls), and manual operations;
- ii. Show the static ("consists of") relationship(s) of the components. Multiple relationships may be presented, depending on the selected design methodology;
- iii. State the purpose of each component and identify the system requirements and system-wide design decisions allocated to it.
- iv. Identify each component's development status/type, if known (such as a new development, existing component to be reused as is, existing design to be reused as is, existing design or component to be reengineered, component to be developed for reuse, component planned for build N, etc.) For existing design or components, the description shall provide identifying information, such as version, documentation references, location, etc.
- v. For each computer system or other aggregate of computer hardware resources identified for use in system, describe its computer hardware resources (such as processors, memory, input/output devices, auxiliary storage, and communications/network equipment).
- vi. Present a specification tree for the system, that is a diagram that identifies and shows the relationships among the planned specifications for the system components.

b. Concept of Execution

This paragraph shall describe the concept of execution among the system components. It shall include diagrams and descriptions showing the dynamic relationship of the components, that is how they will interact during system operation, including, as applicable, flow of execution control, data flow, dynamically controlled sequencing, stat transition diagrams, timing diagrams, priorities among components, handling of interrupts, timing/sequencing relationships, exception handling, concurrent execution, dynamic allocation/deallocation, dynamic creation/deletion of objects, processes, tasks and other aspects of dynamic behavior.

c. Interface Design

This paragraph shall be divided into the following subparagraphs to describe the interface characteristics of the system components. It shall include both interfaces among the components and their interfaces with external entities such as other systems, configuration items, and users. Note: There is no requirement for these interfaces to be completely designed at this level; this paragraph is provided to allow the recording of interface design decisions made as part of the system architectural design. If part or all of this information is contained in Interface Design Descriptions (IDDs) or elsewhere, these sources may be referenced.

- i. Interface Identification and Diagrams. This paragraph shall state the project-unique identifier assigned to each interface and shall identify the interfacing entities (systems, configuration items, users, etc.) by name, number, version and documentation references, as applicable. The identification shall state which entities have fixed interface characteristics (and therefore impose interface requirements on interfacing entities) and which are being developed or modified (thus having interface requirements imposed on them). One or more interface diagrams shall be provided, as appropriate, to depict the interfaces.
- ii. Project Unique Identifier of Interface. This paragraph shall identify an interface by project-unique identifier, shall briefly identify the interfacing entities, and shall be divided into subparagraphs as needed to describe the interface characteristics of one or both of the interfacing entities. If a given interfacing entity is not covered by this SSDD (for example, an external system) but its interface characteristics need to be mentioned to describe interfacing entities that are, these characteristics shall be stated as assumptions or as "When [the entity not

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covered] does this, [the entity that is covered] will... "This paragraph may reference other documents in place of stating the information here. The design description shall include the following, as applicable, presented in any order suited to the information to be provided, and shall note any differences in these characteristics from the point of view of the interfacing entities:

- (1) Priority assigned to the interface by the interfacing entity(ies);
- (2) Type of interface to be implemented;
- (3) Characteristics of what interfacing entity(ies) will provide;
- (4) Characteristics of the what that the interfacing entity(ies) will provide; and
- (5) Other characteristics such as physical compatibility of the interfacing entity(ies) (dimensions, tolerances, loads, voltages, plug compatibility, etc.) store, what is to be transferred through the interface.
- 5. Section 5 -Requirements Traceability

This paragraph shall contain traceability:

- a. From each system component identified in the SDD to the system requirements allocated to it; and
- b. From each system requirement to the system components to which it is allocated.
- 6. Appendices

Appendices may be used to provide information published separately for convenience in document maintenance (e.g. charts, drawings etc.). As applicable, each appendix shall be referenced in the main body of the document where the data would normally have been provided. Appendices may be bound as separate documents for ease of handling. Appendices shall be lettered alphabetically (A, B, etc.).

10.3 Delivery Instructions, Review and Approval Requirements:

Number of Copies/Format: 1 softcopy/MS Office and .PDF

2. Delivery Venue: email
3. First Submission: PDR –10wd
4. TA Review/Approval: Yes/Yes

5. Review/Approval: 10wd/Review Event +10wd

6. Subsequent Submission: CDR –10wd, PRR-10wd if changes

7. Remarks: NA

3.6 DID-ENG-05 Requirements Verification Cross Reference Matrix

1.TITLE		2. IDENTIFICATION NUMBER	
Requireme Matrix	nts Verification Cross-Referenc	DID-ENG-05	
	PTION/PURPOSE	·	
	se of the Requirements Verificat results of the Contractor's Verifi		VCRM) is to plan and
4. APPROV	Project Autho	PRIMARY INTEREST (OPI) ity SM 4-2 nority SM 4-2-6	6. SOW SECTION 5.2.11.1
7. APPLICATION/INTERRELATIONSHIP The RVCRM must be used in conjunction with System First Article Test Plans, Procedures at Harbour and Sea Acceptance Test Plans, Pro 8.ORIGINATOR		vith the Technical Statement o s and Test Reports, and First c	
	nager SM 4-2-7 RATION INSTRUCTIONS		
10.1	Format: The RVCRM shall be	prepared in Contractor's forma	at using Microsoft Excel
10.2	Content:		
	General: a. The RVCRM is expected to be an evolving document which is used during the analysis and design phases of the program to capture agreement on how the Functional Baseline requirements are to be verified.		
	spreadsheet), but when requirement in the Fun order to manage Verific Contractor may choose	be based in electronic form (e printed shall consist of a table stional Baseline. Canada only ration against the Functional ba to include other levels of spec Contractor shall clearly identify unctional Baseline.	e with an entry for requires the RVCRM in aseline; however, the ification within the same
		1 RVCRM requirements, each	entry in the RVCRM
		the corresponding requireme ds or a brief precis of the requi	
	iii. the proposed Verific	ation method(s) (i.e. one or mo ysis, Audit, Historical Data, an	
	iv. the project phase d associated Verifica where Verification a aims of the activitie v. a brief description of	uring which requirements will be ion method to be applied at thit cross multiple phases may be at each phase must be clearly fithe proposed Verification methement by both parties to define; and	s phase; noting that proposed, the scope and y described; thod, intended as a
	vi. comments, if any, a		

 $\label{eq:continuous} \begin{array}{l} \text{Solicitation No. - N}^{\circ} \text{ de l'invitation} \\ W8472-235880/A \\ \text{Client Ref. No. - N}^{\circ} \text{ de réf. du client} \\ W8472-235880 \end{array}$

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3.	Part 2	Require	ments:
----	--------	---------	--------

- a. For the delivery of the Part 2 RVCRM requirements, each entry in the RVCRM shall contain at least:
 - i. the part 1 requirements specified at clause Part 1 of this DID;
 - ii. a reference to the specific Verification/Test procedure and relevant documentation, including unique version identifiers;
 - iii. a reference to the report which contains the pertinent Verification results and, as required, data analysis (including any red-line mark-ups and signatures of witness to those results.);
 - iv. the progressive state of each phase of the Verification program with respect to the requirements;
 - v. a result summary (i.e. PASS/FAIL or verification Incomplete if all of the Verification activities associated with the requirement have been completed); and
 - vi. other comments as required.
- 10.3 Delivery Instructions, Review and Approval Requirements:

1. Number of Copies/Format: 1 soft copy/MS Excel and .PDF

2. Delivery Venue: email

3. First Submission: PKO/SRR Meeting –10wd

4. TA Review/Approval: Yes/Yes

5. Review/Approval: 10wd/Review Event +10wd

6. Subsequent Submission: CDR -10wd, PRR-10wd, FOC SAT +20wd

7. Remarks: NA

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3.7 DID-ENG-07 Material List

1.TITLE	TLE 2. IDENTIFICATION NUMBER		ICATION NUMBER		
Material Lis	st	DID-ENG-0	DID-ENG-07		
3. DESCRI	3. DESCRIPTION/PURPOSE				
	The purpose of the Material List (ML) is identify the materials incorporated into supplies being delivered, so that they may be assessed from a suitability for use in submarines perspective.				
4. APPRO\	Project	CE OF PRIMARY IN Authority SM 4-2 al Authority SM 4-2-6	5.2.16.6.1		
7. APPLICA	ATION/INTERRELATIONSHIP	-			
	y be used in conjunction with th cuments, Engineering Drawings		Specification, System/Subsystem		
8.ORIGINA	TOR		ABLE FORMS		
Project Mai	nager SM 4-2-7 RATION INSTRUCTIONS				
10. PREPA	RATION INSTRUCTIONS				
10.1	Format: The ML shall be prepared	ared in Contractor for	mat in Microsoft Excel Spreadsheet.		
10.2	Contents: As a minimum, the ML shall include the following content: 1. The spreadsheet shall have rows and be comprised of an indentured list of parts and parts associated components; 2. The spreadsheet shall have as a minimum columns comprised of: a. Parts/Component Identification; b. Part/Component Number; c. Part/Component Material Type; d. Part/Component Material Type Specification; e. Part/Component Material Type Specification safety data Sheet Reference (as applicable); and f. Notes. 3. The ML shall provide disposal instructions for any component that are: a. Repair by replacement; b. Require special handling instructions; and c. Cannot be disposed of by conventional means.				
10.3	Delivery Instructions, Review at 1. Number of Copies/Format 2. Delivery Venue: 3. First Submission: 4. TA Review/Approval: 5. Review/Approval: 6. Subsequent Submission: 7. Remarks:		cel and .PDF		

3.8 DID-ENG-08 Safety Data Sheet

1.TITLE		2. IDENTIFICATION NUMBER		
	Data Sheet	DID-ENG-08		
3. DESC	CRIPTION/PURPOSE			
The Saf	The Safety Data Sheet (SDS) is an important component of product stewardship and Occupational			
	Safety and Health. It is intended to provide workers and emergency personnel with the procedures			
		substance or material in a safe manner, an		
		oint, boiling point, flash point, etc.), toxicity,		
		ective equipment, and spill handling proced		
		OFFICE OF PRIMARY INTEREST (OPI)	6. SOW SECTION	
1.74111		oject Authority SM 4-2	5.2.16.7.1	
		echnical Authority SM 4-2-6	0.2.10.7.1	
7 ADDI	ICATION/INTERRELAT			
I.AFFL	ICATION/INTERNELAT	IONSTIF		
The SDS	S may be used in conjun	ction with the Material List, System/Subsyst	tem Specification	
		iments, Engineering Drawings and Associa		
Suhmar	ine's Hazardous Materia	I Portfolio (SHMP)	iod Lioto, dilid	
	INATOR	9. APPLICABLE FORMS		
	Manager SM 4-2-7	5. ALL LICABLE I CIVING		
10 PRF	EPARATION INSTRUCT	IONS		
10.11				
10.1		Format: the SDS shall be in the Material S	Supplier format as a	
10.1		PDF.	applier format as a	
		1 DI .		
10.2		Contents: Canadian Hazardous Product R	logulations specifies the	
10.2		sections and content for the SDS, as follow		
		sections and content for the 3D3, as follow	ws in table below.	
MSDSS	Section and Heading	Specific Information Elements		
INIODO	bection and rieading	opecine information Elements		
1	Identification	Product Identifier		
		Other means of identification (e.g.	product family.	
		synonyms, etc.)	product fairing,	
		Recommended Use		
		5		
		Canadian supplier identifier+		
		Name, full address and pl		
		restrictions on the use of t	inat number, if	
	11 11 220 21	applicable		
2	Hazard Identification	Hazard classification (class, categ		
2	Hazard Identification	Hazard classification (class, categ mixture or a description of the idea	ntified hazard for	
2	Hazard Identification	 Hazard classification (class, categ mixture or a description of the iden Physical or Health hazards Not Or 	ntified hazard for	
2	Hazard Identification	Hazard classification (class, categ mixture or a description of the idea	ntified hazard for	
2	Hazard Identification	 Hazard classification (class, categoristic mixture or a description of the identity in the identi	ntified hazard for therwise Classified:	
2	Hazard Identification	 Hazard classification (class, categoristic mixture or a description of the identity in the identi	ntified hazard for therwise Classified: me of the symbol (e.g.	
2	Hazard Identification	 Hazard classification (class, categoristic mixture or a description of the identity in the identi	ntified hazard for therwise Classified: me of the symbol (e.g.	
2	Hazard Identification	 Hazard classification (class, categorist mixture or a description of the identity in the identity	ntified hazard for therwise Classified: me of the symbol (e.g.	
2	Hazard Identification	 Hazard classification (class, categorist mixture or a description of the identity of the identity	ntified hazard for therwise Classified: me of the symbol (e.g.	
2	Hazard Identification	Hazard classification (class, categoristic mixture or a description of the identity in th	ntified hazard for therwise Classified: me of the symbol (e.g. es)	
2	Hazard Identification	Hazard classification (class, categoristic mixture or a description of the identity of th	ntified hazard for therwise Classified: me of the symbol (e.g. es)	
		Hazard classification (class, categoristic mixture or a description of the idea Physical or Health hazards Not Office Label Elements:	ntified hazard for therwise Classified: me of the symbol (e.g. es) in classification (e.g.	
3	Hazard Identification Composition/Information n on ingredients	Hazard classification (class, categoristic mixture or a description of the identity of th	ntified hazard for therwise Classified: me of the symbol (e.g. es) in classification (e.g.	

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		Common name and synonyms
		Chemical Abstract service (CAS) registry number
		and any unique identifiers
		 Chemical names of impurities, stabilizing solvents
		and/or additives *
		For each material or substance in a mixture that is
		classified in a health hazard class**
		Chemical name
		Common name and synonyms
		 CAS registry number and any unique identifiers Concentration
		○ Concentration NOTE: confidential business information rules can apply.
4	First-aid measures	First-aid measures by route of exposure:
-	That did medadies	o Inhalation
		Skin contact
		Eye contact
		○ Ingestion
		Most important symptoms and effects (acute or delayed)
		Immediate medical attention and special treatment, if
		necessary
5	Fire Fighting measures	Suitable extinguishing media
		Unsuitable extinguishing media
		 Specific hazards arising from the hazardous product (e.g.,
		hazardous combustion products)
		Special protective equipment and precautions for fire-
		fighters
6	Accident release	Personal precautions, protective equipment and
	measures	emergency procedures
7	Handling and storage	Methods and materials for containment and cleaning up Dresputions for acfe handling
'	Tranding and storage	 Precautions for safe handling Conditions for safe storage (including incompatible
		materials)
8	Exposure	Control parameters, including occupational exposure
•	controls/personal	guidelines or biological exposure limits and source of
	protection	those values
		Appropriate engineering controls
		Individual protection measures (e.g. personal protective
		equipment)
9	Physical and chemical	Appropriate (physical state, color, etc.)
	properties	Odour
		Odour threshold
		• pH
		melting point/freezing point
		Initial boiling point/boiling range
		Flash point
		Evaporation rate
		Flammability (solid. gas)
		Lower flammable/explosive limit
		Upper flammable
		/explosive limit
		Vapour pressure
		Vapour density
		Relative density

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10	Stability and reactivity	 Solubility Partition coefficientn-octanol/water Auto-ignition temperature Decomposition temperature Viscosity Reactivity Chemical stability Possibility of hazardous reactions Conditions to avoid (e.g. static discharge, shock, or vibration) Incompatible materials Hazardous decomposition products
11	Toxicological information	Concise but complete description of the various toxic health effects and the data used to identify those effects, including; Information on likely routes of exposure (inhalation, ingestion, skin, and eye contact) Symptoms related to the physical, chemical and toxicological characteristics Delayed and immediate effects, and chronic effects form short-term and long-term exposure Numerical measures of toxicity
12	Ecological Information ***	 Eco-toxicity Persistence and degradability Bio-accumulative potential Mobility in soil Other adverse effects
13	Disposal consideration***	Information on safe handling for disposal and methods of disposal, including any contaminated packaging.
14	Transport information***	 UN number UN proper shipping name Transport hazard class Packaging group Environment hazards Transport in bulk, if applicable Special precautions
15	Regulatory Information***	 Safety, health and environment regulations specific to the product
16	Other information	Date of the latest revisions of the SDS
10.3		Delivery Instructions, Review and Approval Requirements: 1. Number of Copies/Format: 1 soft copy/.PDF 2. Delivery Venue: email 3. First Submission: PDR –10wd 4. TA Review/Approval: Yes/Yes 5. Review/Approval: 10wd/10wd 6. Subsequent Submission: CDR –10wd, and with TDP 7. Remarks: NA

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3.9 DID-ENG-09 Preliminary Design Report

1.TITLE	2.IDENTIFICATION NUMBER			
Preliminary Design	DID-ENG-09			
Report	DID-LING-03			
3. DESCRIPTION/PURPOSE				
	The purpose of the Preliminary Design (PD) Report is for the Contractor to present the			
	e reviewed with Canada at the Preliminary Design Review (PDR) Meeting.			
	is a formal review conducted to ensure that the PD meets all system PDR establishes the basis for proceeding with Detailed Design (DD). It will			
	ect design options have been selected, interfaces have been identified, and			
	Is have been described.			
4. APPROVAL DA				
	INTEREST (OPI) 5.2.17.1			
	Project Authority SM 4-2			
Z A DDI IOATION//	Technical Authority SM 4-2-6			
	NTERRELATIONSHIP y be used in conjunction with the System Requirement Review Report,			
	puirement Review Meeting, System/Sub-System Specifications,			
	n Design Documents, Engineering Drawings and Associated Lists,			
Requirement Verifi	cation Cross Reference Matrix, and First article Plan.			
	9.APPLICABLE FORMS			
Project Manager				
SM 4-2-7 PREPARATION IN	ISTRUCTIONS			
10.1	Format: The PD report shall be prepared in Contractor format in MS			
	Office.			
10.2	Content: As a minimum, the PD report shall contain sections (as			
	applicable to the project) under the following headings.			
	1. Section 1 - Background:			
	a. Project Origin;			
	b. Project Objectives and Significant Requirements;			
	c. Design Approach Overview;			
	d. Key assumptions;e. Changes Since previous Review;			
	f. Competitive Analysis;			
	g. Alternative and Rationale for Selected Design Approach; and			
	h. Risks (expected or encountered).			
	2. Section 2 - Product Design:			
	a. Design vs Critical Requirements;			
	b. Product Design:			
	i. Hardware supported by preliminary drawings, associated lists and CAD models produced in accordance with DID-ENG-00; and			
	ii. Software/firmware supported by preliminary software Design			
	Documentation			
	c. Process supporting Design (e.g. testing, simulation, calculations);			
	d. Product Risk Assessment and abatement;			
	e. Issues and Associated Recommendations; and			
	f. Issues Requiring Clarifications.			

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	3. Section 3 –Project: a. Schedule Status; b. Budget (if applicable) c. Resource status repo d. Project risk Status rep	rt; and	
	4. Enclosures (see their separate CDRLs and associated DIDs): a. System/Sub-system Specification (draft); b. Engineering Drawings, associated Lists and CAD Models (Preliminary) c. System/Subsystem Design Documents (Preliminary); d. Requirement Verification Cross Reference Matrix; and e. First Article Test Plan (Draft).		
10.3	Delivery Instructions, Review and Approval Requirements:		
	1. Number of Copies/Format: 1. Delivery Venue: 2. First Submission: 3. TA Review/Approval: 4. Review/Approval Lead time: 5. Subsequent Submission: 6. Remarks:	1 soft Copy/MS Office and .PDF email PDR Meeting –10wd Yes/Yes 10wd/PDR +10wd NA NA	

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3.10 DID-ENG-10 Detailed Design Report

4		la inchizicio azione				
1.TITLE		2. IDENTIFICATION NUMBER				
Detailed Design Report		DID-ENG-10				
2. DESCRIPTION/PURPOSE						
The purpose of the Detailed Design (DD) Report is for the Contractor to present the material that will be reviewed with Canada at the Critical Design Review (CDR) Meeting. The CDR Meeting is a formal review conducted to ensure that the maturity of the design is appropriate to support with proceeding with the production, assembly, integration and test of the First article System (s).						
4. APPROVAL DATE		CE OF PRIMARY INTEREST (OPI)	6.SOW SECTION			
		Authority SM 4-2	5.2.21.2			
Design review Meeti	FERRELATIONSHIP be used in conjunction ng, System/Sub-Syst	cal Authority SM 4-2-6 on with the Preliminary Design Report em Specifications, System/Subsyster tts, Requirement Verification Cross Re	n Design Documents,			
Article Plan, product	ion Test Plan, and Fir	st Article Test Procedures.	<u> </u>			
ORIGINATOR Project Manager SM 4-2-7	APPLICABLE FORM	MS				
10.1	Format: The DD Report must be prepared in Contractor format in MS Office.					
10.2	Content: As a minimum, the DD report must contain sections (as applicable to the project) under the following headings. 1. Section 1-Background: a. Project Origin; b. Project Objectives and Significant Requirements; c. Design Approach Overview; d. Key Assumptions; e. Changes since Previous Review; and f. Competitive Analysis.					
	 2. Section 2 -Product design: a. Design vs Critical Requirements; b. Product Design; i) Hardware: supported by detailed drawings, associated lists and CAD Mo produced in accordance with DID-ENG-00; and ii) Software/Firmware: supported by detailed software Design Documentation. c. Process Supporting Design (e.g. testing, simulation, calculations); d. Assumptions Validation; e. Product Risk assessment and Abatement; f. Issues and Associated Recommendations; and g. Issues Requiring Clarifications 3. Section -3 Project: 					
	a. Schedule Stat	us; licable) Status Report; tus Report; and				

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			Draft	25 May 2022

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	 4. Enclosures (see their separate CDRLs and associated DIDs): a. System/Sub-system Specifications (Final); b. Engineering Drawings, Associated Lists and CAD Models (Detailed); c. System/Subsystem Design Documents (Detailed); d. Requirements verification Cross Reference Matrix; e. First Article Test Plan (Final); f. Production Test Plan (Draft); and g. First article Test Procedures (including FAT Procedures) (Draft). 		
10.3	Delivery Instructions, Review and Approval Requirements: 1. Number of Copies/Format: 2. Delivery Venue: 3. First Submission: 4. TA Review/Approval: 5. Review/Approval: 6. Subsequent Submission: 7. Remarks: 1 soft copy/MS Office and PDF email CDR –10wd Yes/Yes 10wd/CDR +10wd NA		

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3.11 DID-ENG-11 First Article System Design Report

1.TITLE			2. IDENTIFICATION	NUMBER	
First Article S			DID-ENG-11		
	3.DESCRIPTION/PURPOSE The purpose of the First Article System Design (FASD) Report is for the Contractor to present to				
Canada any changes to the First Article System Design that have resulted from the results of the CDR. 4. APPROVAL DATE					
			5.2.25.3		
		Technical Authority SM 4-		0.2.20.0	
		RELATIONSHIP			
		be used in conjunction with the			
		Engineering Drawings and		rement Verification Cross	
8.ORIGINAT		irst Article Test Procedures.	9.APPLICABLE FORM	IQ	
Project Mana	-	2-7	9.AFFLIOADLL I ONIVI		
PREPARATI					
10.1		he FASD Report shall be pro	epared in Contractor for	mat in MS Office.	
10.2	project) ui 1. Section a. P b. P c. D d. Ki e. C f. C 2. Section a. D b. P c. P d. A e. P f. Is 3. Section a. S b. B c. R d. P 4. Enclose	As a minimum, the FASD replace the following headings. In 1-Background: In	cant Requirements; few; and fits; fe.g. testing, simulation, of d Abatement; and . Report;	calculations);	
	u b. S c. R re	ngineering Drawings, Associ pdates as required); ystem/Subsystem Design D tequirements Verification Cro equired); and rst Article Test Procedures (ocuments (Detailed with oss reference Matrix (De	n updates as required); etailed, with updates as	
	as	s required)		-	

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 $\label{eq:continuous} \begin{array}{l} \text{Solicitation No. - N}^{\circ} \text{ de l'invitation} \\ W8472-235880/A \\ \text{Client Ref. No. - N}^{\circ} \text{ de réf. du client} \\ W8472-235880 \end{array}$

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File No. - N° du dossier W8472-235880

CCC No./N° CCC - FMS No./N° VME

10.3	Delivery Instructions, review and approval requirements:		
	 Number of Copies/format: Delivery Venue: First submission: TA Review/Approval: Review/Approval Lead Time: Subsequent Submission: Remarks 	1 softcopy/ MS Office and .PDF email FAS Build –1wd Yes/Yes 10wd/10wd NA Review and Approval run concurrently	

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4 First Article System Test DIDs

4.1 DID-TST-01 Test Plan

1.TITLE			2. IDENTIFICATION	NUMBER		
Test Plan			DID-TST-01			
3. DESCRII						
	The purpose of the Test Plan (TP) is to document the Plan for the types of testing to be done.					
4. APPROV	/AL DATE	5. OFFICE OF PRIMAR		6.SOW SECTION		
			5.2.26.1			
	Technical Authority SM 4-2-6 5.2.27.1					
	7.APPLICATION/INTERRELATIONSHIP					
		າ conjunction with the Fir		d the Production Test Plan.		
8.ORIGINA			9.APPLICABLE FOR	RMS		
Project Mar						
10. PREPA		STRUCTIONS				
10.1	Format: A	TP shall be prepared in	Contractor format in N	MS Office.		
10.2		As a minimum, the TP Render the following heading		tions (as applicable to the		
	strateg involve 2. Section Contra 3. Section Test P 4. Section In Involve I	ed. The TP provides Insp n 2 -Organization and Mactor's organization and r n 3-Flow Diagrams. The Program; n 4 -Objectives. The TP n 5 -Support Requirement as support required to the n 6 -Special Testing. The Test Program; n 7 -Documentation. The type of test in the Test Pr n 8 -Configuration. The ill be tested and show how tested and shows how the tered for acceptance; and n 9 -Failure and Correction m Resolution System us and how follow up testing	ses and sequence of a pection and Test Points anagement. This sect management for the type TP includes a type of outlines the Test Prognts. The TP identifies the types of tests; he TP identifies any Specific TP identifies the docogram; TP provides the System this configuration is the type Action Management and for the collection of the will be managed for the managed for the section and the test of	activities for the types of testing s; tion of the TP describes the spes of testing; feet Flow Diagrams for the gram Objectives. The significant technical and secial Testing which forms part cumentation requirements for em/Equipment Configuration (s) the same configuration that e same configuration that will ent. The TP describes the failure data, track corrective lowing a test failure.		
10.3	1. Number 2. Delive 3. First S 4. TA Re 5. Review	ubmission: view/Approval: v/Approval Lead Time: quent submission:	1 soft copy/MS Officemail Requirement Date Yes/Yes 10wd/10wd NA	ce and .PDF		

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4.2 DID-TST-02 Test Procedure

1.TITLE		2. IDENTIFICATION	N NUMBER		
Test Proced	lure	DID-TST-02			
	PTION/PURPOSE	DID 101 02			
The purpose of the Test Procedure (TP) is to document the step by step operations to be performed on					
	going development, qualification and ac				
	est equipment, support required, the tes				
	and the pass/fail criteria against which the				
	of individual test procedures related to				
4. APPROV			6.SOW SECTION		
	Project Authority SM 4-2		5.2.28.1, 5.2.29.1		
	Technical Authority SM 4-	-2-6			
	TION/INTERRELATIONSHIP				
	be used in conjunction with the First A				
	eptance Test Procedure, EMC/EMI Tes	t Procedure, Shock T	est Procedure, Environment		
8.ORIGINA	lure, Endurance Test Procedure.	9.APPLICABLE FO	DMS		
0.URIGINA	IOR	9.APPLICABLE FO	KIVIS		
Project Man	ager SM 4-2-7				
	RATION INSTRUCTIONS				
10.1	Format: A TP shall be prepared in Con	tractor format in MS (Office.		
10.2	Content: As a minimum, the TP shall c	ontain the following in	nformation (as applicable).		
	1. Front Matter:				
		following information	shall appear on the outside		
	a. Cover and Title Page: the following information shall appear on the outside front cover and title page:				
	i. Date of Issue;				
	ii. Revision date;				
	iii. Procedure document identification number;				
	iv. Contract Number;				
	v. Contractor's name and	d address;			
	vi. Type of procedure. Including purpose (e.g. first article test, developmental evaluation, qualification, environmental (specify),				
		tion, qualification, env	rironmentai (specify),		
	acceptance, or other; vii. Identification of the sy	etam euhevetam ar a	equipment to be tested; and		
	viii. Security Classification		equipment to be tested, and		
	viii. Occurry Glassification	(ii applicable).			
	b. Record of Changes. A rec	ord of change pages	shall be included to provide for		
	the tracking of changes to the test procedures.				
	c. Table of Contents. A table	of content is required	I when more than one test		
	procedure is included in th				
	page location of each proc	edure number, proce	dure title, and related		
	equipment nomenclature.	•			
	2. Body of Document. For each test	orocedure, the following	ng information is required:		
			a unique number assigned to		
	it.				
	b. Title of Procedure. The title	e should relate to the	purpose of the test.		

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c. Introduction. The following shall be addressed in the introduction:

- i. Purpose of test (As specified in the contract tasking document);
- ii. System, sub-system or equipment to be tested. The following shall be provided:
 - (1) Nomenclature;
 - (2) Model or part number;
- 3. Type of test item (prototype, production item, laboratory model, etc.);
- 4. Application specification:
 - Test requirements. Included the following, each related to the prescribing contract requirement paragraph (specification, standard, plan, or work statement);
 - b. Required tests, and parameters to be measured;
 - c. Performance requirements, acceptance of compliance limits, and Environmental criteria; and
 - d. Referenced documents. A list by title, number, date, and source of those documents cited in the test procedure.
- 5 Required Test Equipment. Includes the following for each piece of test equipment required to perform the procedure:
 - a. Nomenclature;
 - b. Model number (if applicable);
 - c. Use of test equipment;
 - d. Manufacturer (if mandatory);
 - e. Accuracy and calibration requirements; and
 - f. Range or spectrum of measurements required.
- 6. Table of tests. This table lists each test to be performed under the procedure in the sequence it is to be performed, identified to the procedure paragraph, and the related specifications/contract requirement.
- 7. Step by Step procedure. The following shall be included for each step of the test procedure:
 - a. Test set-up diagrams, including test equipment connections;
 - b. Input and output instrumentation points;
 - c. Test item operating limits and test conditions to be imposed;
 - d. Performance parameters to be measured;
 - e. Step-by-step operations to obtain the required data;
 - f. Caution and safety warnings as appropriate;
- 8. Data Sheets. Data sheets shall be included with the procedure, or be separately attached at the end of all procedures. They shall provide for:
 - a. Identification of item tested, including model and serial numbers;
 - b. Recording of test measurements;
 - c. Identification of required or objective performance values, with tolerances;
 - d. Identification of applicable procedure paragraphs;
 - e. Date of test:
 - f. Signature of technician or inspector performing the tests; and
- 9. Support requirements. Any special support requirement would be included in this section such as:
 - a. Use of special facilities or test ranges;
 - b. Personnel requirements (numbers, types, qualifications);
 - c. Unusual electrical, hydraulic, pneumatic, etc., requirements; and
 - d. Support equipment requirements.

$$\label{eq:continuous} \begin{split} & \text{Solicitation No. - N}^{\circ} \text{ de l'invitation} \\ & W8472-235880/A \\ & \text{Client Ref. No. - N}^{\circ} \text{ de réf. du client} \\ & W8472-235880 \end{split}$$

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CCC No./N° CCC - FMS No./N° VME

10.3 Delivery Instructions, Review, and Approval Requirements:

Number of Copies/Format: 1 soft copy/MS Office and .PDF

2. Delivery Venue: emai

3. First Submission: Requirement Date –10wd

4. TA Review/Approval: Yes/Yes5. Review/Approval Lead time: 10wd/10wd

6. Subsequent Submission: NA

7. Remarks: Review and Approval run concurrently

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4.3 DID-TST-03 Test Report

1.TITLE		2. IDENTIFICATION NUMBER			
Test Repor	t	DID-TST-03			
	3. DESCRIPTION/PURPOSE				
	The purpose of the Test Report is to document the test/inspection results, findings and analyses that				
	will enable Canada to evaluate compliance with system requirements, performance objectives,				
	pecifications, and test/inspection plans APPROVAL DATE				
4. APPROV	Project Authority SM 4-		6.SOW SECTION 5.2.33.2.1, 6.2.2.3.1		
	Technical Authority SM 4		0.2.00.2.1, 0.2.2.0.1		
7.APPLICA	TION/INTERRELATIONSHIP				
	eport may be used to report the tests o				
	dure, EMC/EMI Test procedure, Shock	Test Procedure, Er	nvironment Test Procedure,		
	Test Procedure.		ODMC		
8.ORIGINA	TOR	9.APPLICABLE F	ORMS		
Project Mar	nager SM 4-2-7				
	RATION INSTRUCTIONS				
10.1	Format: A TST Report shall be prepa	red in Contractor fo	rmat in MS Office.		
10.0	Content: The TCT Devices to be all a content	in the fellender info	rmation (on assissable)		
10.2	Content: The TST Report shall conta	in the following info	rmation (as applicable).		
	1. Front Matter:				
	a. <u>Cover and Title Page:</u> The foll	owing information s	hall appear on the outside front		
	cover and title page:				
	i. Date of issue;	- \.			
	ii. Revision date (if applicabliii. Contractor's name, addres		and government entity code:		
	iv. Contract number;	33, and commercial	and government entity code,		
	v. Contractor's name and ad	dress;			
	vi. Type of test/inspection (e.	g. EMC/EMI test, De	eliverable Unit, 1 FAT Test,		
	etc.);	. 6 42 . 1 . 4 4 1 1			
	vii. Including purpose (e.g. first article test, development evaluation, qualification, environmental (specify), acceptance, or other;				
	viii. Identification of the item te		ceptance, or other,		
	ix. Date or period of test/insp				
	x. Name and address of req		ictivity; and		
	xi. Security classification (if a				
	b. Record of Changes. A record		all be included to provide for the		
	tracking of changes to the test c. Table of Contents. A table of c		identifying the following:		
	i. The title and starting page of each major section, paragraph, and appendix of the report; and				
	ii. The page, identifying number and title of each illustration (for example				
	figure, table, photograph, chart, and drawing).				
	2 Introduction. The introduction shall	include the followin	ag information		
	a. Test/inspection objective(s). The				
	specified in the contract tasking		<i></i>		
	b. Item(s) tested/inspected. Comp		of the items tested/inspected		
	including the following:				
	a. Nomenclature;				
	b. NATO Stock Number;				

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- c. Model number, part number, and serial number;
- d. Type of item (for example, prototype, production item, laboratory model);
- e. Serial or lot number;
- f. Applicable engineering changes;
- g. Production item specification, if applicable; and
- h. Date of manufacture.
- c. <u>Test/inspection requirements</u>. Complete identification of the test/inspection requirements correlated to contractual requirements including the following:
 - a. Required test/inspection parameters; and
 - b. Performance requirements, acceptance or compliance limits, and environmental criteria.
- 3. <u>Summary.</u> Complete test/inspection report summary including the following:
 - a. A brief description of the significant test/inspection results, observations, conclusions, and recommendations covered in greater detail elsewhere in reports;
 - b. Proposed corrective actions and schedules for failure or problems encountered;
 - c. Identification of deviation, departures, or limitations; and
 - d. Tables, graphs, illustrations, or charts as appropriate to simplify the summary date.
- 4. <u>Reference Documents</u>. Complete identification of all documents referenced in the test/inspection report including the following as applicable:
 - a. Prior test/inspection reports on the same item;
 - b. Test/inspection plans and procedure documents;
 - c. Prior certification of compliance;
 - d. Contractor's file designation where test/inspection records are maintained; and
 - e. Input parameters used.

The applicable issue of the documents cited therein, including their approval dates and dates of any applicable amendments, notices, and revisions, shall be specified in the contract.

- 5. Body of Document. For each test procedure, the following information is required.
 - a. <u>Test Equipment Identification</u>. Complete identification of each item of test equipment used in the test/inspection including the following
 - i. Nomenclature;
 - ii. Model number;
 - iii. Serial number;
 - iv. Manufacturer;
 - v. Calibration Status;
 - vi. Accuracy data; and
 - vii. Comments, if applicable.
 - b. <u>Title/inspection facility installation and set-up</u>. Complete description of the physical set-up used in conducting the test/inspection to include the following:
 - a. Location or orientation of the item;
 - b. Location, orientation, or settings of the test equipment and instrumentation;
 - c. Location, orientation, or setting of sensors and probes;
 - d. Location, orientation of interconnections, cables, and hook ups; and
 - e. Electrical power and control, pneumatic, fluidic, and hydraulics requirements.

Drawings, illustrations, and photographs may be used for clarification.

- c. <u>Test/inspection procedures</u>. Complete description of the procedures used in conducting the test/inspection to include the following:
 - a. Item selection and inspection that verified suitability for test/inspection; and

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 Summarized sequence of testing/inspection steps, including description of how the item was operated during the test/inspection steps, and any control conditions imposed.

- d. <u>Test/inspection results and analysis</u>. A copy of all test/inspection results and analysis to include the following:
 - i. Recorded Data. The actual recorded data. If the recorded data is extensive provide it as an appendix; and
 - ii. <u>Test/inspection results.</u> Identification of all test/inspection results to include the following:
 - (1) Matrices comparing results achieved against test/inspection objectives or requirements:
 - A discussion of these matrices as to their significance, and how they compare to any prior test/inspections;
 - (3) Calculation examples; and
 - (4) Discussion of anomalies, deviation, discrepancies, or failures including their impact, causes, and proposed corrective actions. The discussion shall address discrepancies between design requirements and the tested/inspected configuration.
- e. <u>Conclusion:</u> Test/inspection conclusions are distinguished between objective and subjective to include the following:
 - a. The effectiveness of the test/inspection procedures in measuring item performance;
 - b. The success or failure of the item to meet required test/inspection objectives;
 - c. The need for repeat, additional, or alternative tests/inspections;
 - d. The need for item redesign or further development;
 - e. The need for improved test/inspection procedures, techniques, or facilities; and
 - f. The adequacy and completeness of the test/inspection requirements.
- f. <u>Recommendations:</u> Recommendations appropriate to the test/inspection results and conclusions including the following:
 - a. Acceptability of the item tested/inspected (pass or fail);
 - b. Additional testing/inspection required;
 - c. Redesign required;
 - d. Problem resolution;
 - e. Test/inspection procedure or facility improvements;
 - f. Disposition of items tested/inspected;
 - g. Documentation changes required; and
 - viii. Testing/inspection improvements.
- g. Authentication: The following certifications shall be included, as applicable:
 - i. <u>Authentication of test/inspection results.</u> A statement that the test/inspection was performed in accordance with the applicable test/inspection plans and procedures, and that the results are and accurate. The authentication shall include the signature of the contractor personnel that performed the test(s)/inspection(s), a contractor representative authorised to make such certification, and any government witness;
 - ii. Authentication of prior validation. A statement identifying those requirements not tested/inspected or measured that were previously validated. Include identification of the data and method employed for such validation (for example, prior test/inspection, analytical verification, equivalent item, and so on). The authentication shall include the signature of a contractor representative authorised to make such authentication and any government witness and
 - iii. <u>Authentication of acceptability.</u> A statement that the item tested/inspected either passed or failed item acceptability requirements. This authentication

 $\label{eq:continuous} \begin{array}{l} \text{Solicitation No. - N}^{\circ} \text{ de l'invitation} \\ W8472-235880/A \\ \text{Client Ref. No. - N}^{\circ} \text{ de réf. du client} \\ W8472-235880 \end{array}$

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	shall include the signature of a contractor representative authorised to make such authentication and any government witness. 5. Appendices. Appendices shall be used to append detailed test/inspection data, drawings, photographs, or other documentation too voluminous to include in the main body of the report. This includes referenced documentation not previously provided by the government, and test/inspection reports from any associated test/inspection activity			
10.3				
	 Number of Copies/format: Delivery venue: First submission: TA Review/approval: Review/Approval lead time: Subsequent Submission: Remarks: 	1 soft copy/MS Office and .PDF email Test +10wd Yes/Yes 10wd/10wd NA Review and Approval run concurrently		

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CCC No./N° CCC - FMS No./N° VME

4.4 DID-TST-04 First Article System Qualification Test Report

	ER			
First Article System Qualification Test Report DID-TST-04				
3. DESCRIPTION/PURPOSE				
The First Article System (FAS) Qualification Test Report provides a summary of FAS test results,				
reservation, and any recommended follow on actions.				
4. APPROVAL 5. OFFICE OF PRIMARY INTEREST (OPI) 6.SOW S	ECTION			
DATE Project Authority SM 4-2 5.2.34.1				
Technical Authority SM 4-2-6				
7.APPLICATION/INTERRELATIONSHIP				
The FAS Qualification Test Report may be used in conjunction with the First A	rticle Test Plan, First			
article Test procedures (EMC/EMI, Environmental Qualification, shock and End				
associated First article Test Reports, as well as Requirements verification Cros	ss Reference Matrix.			
8.ORIGINATOR 9.APPLICABLE FORMS				
Project Manager SM 4-2-7				
10. PREPARATION INSTRUCTIONS				
10.1 The FAS Qualification Test Report shall be prepared in Contracto	r format in MS Office.			
10.2 Content: The FAS Qualification Test Report shall as a minimum, i	nclude the following			
information for each FAS tested:	noidae ane renewing			
1. Type of FAS Tested:				
a. Part number/version number;				
b. Serial number; and				
c. Photographs, if available.				
2. Summary of FAS Test Results (Pass/Fail), Reservation, Reco	mmended Follow-on			
Action) for the following tests:				
a. EMC/EMI;				
b. Environmental Qualification;				
c. Shock; and				
d. Endurance.				
Delivery Instructions, review and Approval Requirements				
10.3 1. Number of Copies/format: 1 soft copy/MS Office and	PDF			
2. Delivery venue: email	.1 🗸			
3. First submission: Last FAS Test +20wd				
4. TA Review/approval: Yes/Yes				
5. Review/Approval lead time: 10wd/10wd				
6. Subsequent Submission: NA				
7. Remarks: Review and Approval run	concurrently			
Tronditation Tronditation and Approverturi	22.70411 01141			

5 Production DIDs

5.1 No Production DIDs

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6 Installation and Set-to-Work DIDs

6.1 DID-ISW-00 Field Service Representative Report

1.TITLE			2. IDENTIFICATION	ON NUMBER	
Field Service	ce Represe	entative Report	DID-ISW-00		
3. DESCRI	PTION/PUF	RPOSE			
				the FSR supporting the executing	
				nnel, and Shipyard) to report on	
	the FSR's activities, observations and recommendations during a site visit. Canada will use FSR Reports in conjunction with execution agency task completion reports to accept the particular phase of				
		tasks are complete, to acce			
		5. OFFICE OF PRIMARY	INTEREST (OPI)	6.SOW SECTION	
		Project Authority SM 4-		7.3.2.2.1	
		Technical Authority SM 4-	2-6	7.3.3.2.1	
7.APPLICA	TION/INTE	RRELATIONSHIP			
				Acceptance Plan, First of Class	
		Functional Test procedures	s, Harbour Acceptar	nce Procedures and Sea	
Acceptance 8.ORIGINA		edures.	9.APPLICABLE F	OPMS	
o.ORIGINA	TOR		9.APPLICABLE F	ORIMS	
Project Mai	nager SM 4	-2-7			
		STRUCTIONS			
10.1	Format: The FSR Report shall be prepared in Contractor's format in MS Office.				
10.2	Content: 1	The FSR report shall include	e as a minimum, the	e following content:	
		act (Purchase Order) Numb	er;		
		p Number;			
		s) of Service; of the FSR;			
			. HMCS Chicoutimi	, Victoria, British Columbia);	
	6. Reaso	n for Call Up;		,	
		on of Work Within Unit;			
		Performed; onal Recommendations (if a	unv): and		
		Signature and Date.	irry), ariu		
		J =			
	Dalling and		naval Danistono (
10.3	Delivery Instructions, review and Approval Requirements 1. Number of Copies/format: 1 soft copy/MS Office and .PDF				
10.0	2. Delive		email	Alloc and it Di	
		ubmission:	FSR Visit +10w	d	
		view/approval:	Yes/Yes		
		w/Approval lead time:	10wd/10wd		
	7. Remai	quent Submission: rks·	NA Review and App	proval run concurrently	
	7. IXOIIIdi	ino.	1 to view and App	noval rair concurrently	

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6.2 DID-ISW-01 Installation and Acceptance Plan

1. TITLE 2. IDENTIFICATION NUMBER Installation and Acceptance Plan DID-ISW-01 3. DESCRIPTION/PURPOSE The purpose of the Installation and Acceptance (IA) Plan is to provide the organizations planning the installation through to acceptance with the Contractor's recommended sequence of events for installation through to acceptance activities for the Equipment/System. 5. OFFICE OF PRIMARY INTEREST (OPI) 6. SOW SECTION 4. APPROVAL DATE **Project Authority** 7.2.1.1 SM 4-2 Technical Authority, SM 4-2-6 7. APPLICATION/INTERRELATIONSHIP The IA Plan may be used in conjunction with the Installation and Set to Work Procedure, First of Class and Follow On Class Functional Test Procedures, Harbor Acceptance Test Procedures and Sea Acceptance Test Procedures. 8. ORIGINATOR 9. APPLICABLE FORMS Project Manager SM 4-2-7 10. PREPARATION INSTRUCTIONS Reference: DID-TST-01 Format: The IA Plan must be prepared, following the guidance at the reference in Contractor's format in MS Office. The IA Plan's content must be Contractor defined, but as a minimum needs to cover shipset preparation for installation, set-to-work, first of class and follow-on (if different) harbor and at sea functional testing. Delivery Instructions, Review and Approval Requirements: 10.3 1. Number of Copies/Format: 1 soft copy/MS Office and .PDF 2. Delivery Venue: email or FTP First Submission: PRR Meeting -10wd 4. TA Review/Approval: Yes/Yes Review/Approval Lead Time: 10wd/10wd Subsequent Submission: NA Remarks: Review and Approval run concurrently

6. Subsequent Submission:

Remarks:

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CCC No./N° CCC - FMS No./N° VME

6.3 DID-ISW-02 Installation and Set-to-Work Procedure

1. TITLE 2. IDENTIFICATION NUMBER Installation and Set-to-Work Procedure DID-ISW-02 3. DESCRIPTION/PURPOSE The purpose of the Installation and Set-to-Work Procedure (ISWP) to provide guidance to the executing personnel (Ship's Staff, Fleet Maintenance Facility Personnel, Shipyard, Contractor Field Service Representatives) on how to install and set-to-work the Equipment/System. 5. OFFICE OF PRIMARY INTEREST (OPI) 6. SOW SECTION 4. APPROVAL DATE Project Authority SM 4-2 7.2.2.1 Technical Authority SM 4-2-6 7. APPLICATION/INTERRELATIONSHIP The ISWP may be used in conjunction with the Installation and Acceptance Plan, Functional Test Procedures, and the ISW Field Service Representative Report. 9. APPLICABLE FORMS 8. ORIGINATOR Project Manager SM 4-2-7 10. PREPARATION INSTRUCTIONS Reference: DID-TST-03 10.1 Format: The ISWP must be prepared, following the guidance at the reference, in Contractor's format in MS Office. 10.2 | Content: The ISWP must include as a minimum: 1. Procedures for making safe the interfaces to the Equipment/System to be replaced (see 2 below); 2. Procedures for disconnecting all Equipment/System interfaces to be replaced including: a. Electrical/Control; b. Hydraulic/Pneumatic; c. Cooling; d. Mechanical to Other System components; e. Mechanical Mounting; and f. Any Other Interfaces. 3. Procedures for physical removal of Equipment/System to be replaced. 4. Procedures for any special preparation of replacement Equipment/System prior to physical placement. 5. Procedures for physical placement of replacement Equipment/System. 6. Procedures for physical alignment of replacement Equipment/System (if required) within the higher level system. 7. Procedures for connecting all replacement Equipment/System interfaces (see 2. Above). 8. Procedures for testing all replacement Equipment/System interfaces. 9. Procedures for setting-to-work the replacement Equipment/System. 10.3 Delivery Instructions, Review and Approval Requirements: 1. Number of Copies/Format: 1 soft copy/MS Office and .PDF 2. Delivery Venue: email or FTP 3. First Submission: PRR Meeting -20wd 4. TA Review/Approval: Yes/Yes 5. Review/Approval Lead Time: 20wd/20wd

Annex A-Appendix 2 47/62	GALLEY IMPROVEMENT FOR THE VCS	DIDa	Revision	Date
Annex A-Appendix 2 47/62	GALLEY IMPROVEMENT FOR THE VCS	DIDs	Draft	25 May 2022

Review and Approval run concurrently

NA

File No. - N° du dossier

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DID-ISW-03 Harbour Acceptance Test Procedure 6.4

1. TI	TLE		2. IDENTIFICATION NUMB	BER
Hark	oor Acceptance Test Procedure		DID-ISW-03	
	ESCRIPTION/PURPOSE		<u> </u>	
_	purpose of the Harbor Acceptance	Test (HAT) Proce	dure is to provide quidance t	to the executing personnel
	o's Staff, Fleet Maintenance Facilit			
	erform First of Class (FOC) and Fo			
	tionally tested Equipment/System.			
	gn that have to be performed on bo			
	ated with each type of FOS. There	e may be an along	side and an at sea portion of	
4. Al	PPROVAL DATE 5. OFFIC	E OF PRIMARY IN	NTEREST (OPI)	6. SOW SECTION
		uthority SM 4-2		7.2.3.1
		I Authority SM 4-2-	-6	
	PPLICATION/INTERRELATIONSH			
	IAT Procedure may be used in cor			
	ional Test Procedures, and FOC a			oorts.
	RIGINATOR	9. APPL	ICABLE FORMS	
	ect Manager SM 4-2-7			
10. F	PREPARATION INSTRUCTIONS			
	Reference: DID-TST-02			
10.1	Format: The HAT Procedure mus	t be prepared, follo	owing the guidance at the ref	erence, in Contractor's
	format in MS Office.			
10.2	Content: The HAT Procedure mu	st include as a min	imum:	
	FOC HAT tests required to pro			
	2. FOS Class HAT tests. Note: th	•		
	2. FOS Class HAT lesis. Note. III	ese may be a subs	set of the FOC F1s.	
10.3				
10.5	Delivery Instructions, Review and	Approval Requiren	nents:	
	1. Number of Copies/Format:	1 soft copy/MS O	ffice and .PDF	
	2. Delivery Venue:	email or FTP		
	3. First Submission:	PRR Meeting -20)wd	
	4. TA Review/Approval:	Yes/Yes		
	5. Review/Approval Lead Time:			
	6. Subsequent Submission:	NA		
	7. Remarks:		oval run concurrently	
	r. Romano.	. to viou and / tppi	oral rail concanonity	

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7 Quality Assurance DIDs

7.1 No QA DIDs

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8 Configuration Management DIDs

8.1 DID-CM-01 Configuration Status Account

1.TITLE 2. IDENTIFICATION NUMBER			2. IDENTIFICATION	ON NUMBER
Configuration	on Status A	ccount	DID-CM-01	
	PTION/PUR			
				ecords, stores, handles, verifies
				on for each Configuration Item
	ith the Cont	figuration Management Plar	n that is under confi	guration management and
control.		L	WITEDEAT (ODI)	
4.APPROV	AL DATE	5. OFFICE OF PRIMARY		6.SOW SECTION
		Project Authority SM 4 Technical Authority SM 4		9.2.1.1
7 ADDLICA	TION/INTE	RRELATIONSHIP	-2-0	
		in conjunction with the con	figuration managem	nent Plan for deliverables
	and items		ngaration managen	Terre i lari loi deliverables
8.ORIGINA		or suppry.	9.APPLICABLE F	ORMS
	nager SM 4	-2-7		
		ISTRUCTIONS		
10.1	Format: T	he CSA shall be prepared i	n Contractor format	in Microsoft Excel.
10.2	Content: A	A Configuration Items Reco	rd in CSA shall as a	a minimum include:
	2. For ea	entured list of the item and ch indentured item (or sub-	component):	s.
		current approved configura		
		erence to its associated do		1
		posed changes from initiation lementation;	on, review, approvai	i, disapprovai, and
		nfiguration audit results and	disposition of identi	ified discrepancies:
				les to all CIs at all locations;
	f. Nex	t higher assembly using the		pt for assembly into standard
	part			
				to other CIs or part numbers;
		ies number associated with cal components by both par		number:
		erence to specification contr		
		contractor, vendor, or suppli		,,
		erence to all changes to sup		tion formally accepted by Canada;
		ngineering Changes releas	ed for production in	corporation.
10.3	Delivery I	nstructions, review and App	roval Requirements	3
		er of Copies/format:	1 soft copy/MS E	
	2. Deliver	ry venue:	email	
		ubmission:	PDR Meeting – 1	l0wd
		riew/approval:	Yes/NA	
		v/Approval lead time:	10/NA	ion 40 and Donadoust's s
	b. Subse	quent Submission:		ing-10wd, Production
	7. Remar	ks:	Complete +20wd NA	I

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8.2 DID-CM-02 Configuration Status Account Report

1.TITLE		2. IDENTIFICATION	ON NUMBER	
Configuration	on Status Account Report	DID-CM-02		
	PTION/PURPOSE	DID OW 02		
	uration Status Account (CSA) Report p	rovides details abou	ut the Configuration Items (CI)	
	loped under the contract; documentation			
	es to items and their configuration docu			
4.APPROV			6.SOW SECTION	
	Project Authority SM 4		9.3.3.1	
7 A DDL ICA	Technical Authority SM 4-2-6 7.APPLICATION/INTERRELATIONSHIP			
_	eport may be used in conjunction with	the Configuration M	Janagement Plan and	
	on Status Account.	the Configuration iv	nanagement i lan and	
8.ORIGINA		9.APPLICABLE F	ORMS	
	nager SM 4-2-7			
	RATION INSTRUCTIONS			
	Reference: ANSI/EIA 649-B Configur	ation Management	Standard.	
10.1	Format: The CSA Report shall be pre	epared in Contractor	r format in MS Office.	
10.2	Contents: The CSA Report shall inclu	ıde		
10.2	Data from the CSA database inclu			
	a. The identification of the currently		ration documentation and	
	configuration identifiers associa			
	b. The status of proposed enginee			
	c. The status and disposition of dis		onfiguration audits;	
	d. The status of requests for devia		and the first of the set of the set of	
	e. The ability to trace changes from f. The effectiveness and installation			
	locations.	ni status oi coringui	ation changes to all Cis at all	
	2. The CSA Report shall identify des			
	identification numbers meeting the requirements of ANSI/EIA 649: a. Specification revision excepting that reference to Source Control Numbers does			
	not apply;			
	b. Specification revision history ex	xcepting that refere	nce to SCNs does not apply;	
	c. Drawing revision level;			
	d. Drawing revision history;			
	e. Software/Firmware version leve			
	f. Software/Firmware version history; and			
	g. CI component indentured listing		out active change processing	
	 The CSA Report shall include current information about active change processing meeting the requirements of ANSI/EIA 649: 			
	a. Change being processed status;			
	b. Change being processed history;			
	c. Event Date Entries; and			
	d. Change processing history.			
	4. The CSA Report shall include curr	rent information abo	out approved changes to CIs;	

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8. Remarks:

10.3

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5. The CSA Report shall include current information about implementation of approved changes meeting the requirements of ANSI/EIA 649: a. Approved change implementation activities; b. Drawing revision activity; Software/Firmware revision activity; d. Technical manual and other related document preparation/revision; e. Spare purchases and distribution; Support equipment design, purchase or modification; and f. Retrofit/modification kit development. 6. The CSA Report shall include current information about configuration items meeting the requirements of ANSI/EIA 649-B. Delivery Instructions, review and Approval Requirements 1. Number of Copies/format: 1 soft copy/MS Office and .PDF 2. Delivery venue: email 3. First submission: PDR Meeting - 10wd 4. TA Review/approval: Yes/NA 5. Review/Approval lead time: 10/NA Subsequent Submission: CDR, PRR Meeting-10wd, Production Complete +20wd FOC, FOS (SS2, SS3, and SS4) SAT +20wd. 7.

NA

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9 Integrated Logistics Support DIDs

DID-ILS-01 Naval Preventive Maintenance Plans and Schedules 9.1

1.TITLE		2. IDENTIFICATION	ON NUMBER	
Naval Prev	entive Maintenance Schedules	DID-ILS-01		
3. DESCRI	PTION/PURPOSE: The purpose of the	Naval Preventive N	Maintenance Schedule (NPMS) is	
to set out th	ne maintenance routines that are requir	ed to be carried ou		
	f or by Fleet Maintenance Facility (FMF) Staff.		
4.APPROV	'AL DATE 5. OFFICE OF PRIMARY	INTEREST (OPI)	6.SOW SECTION	
	Project Authority SM 4		10.2.1.1	
	Technical Authority SM 4	-2-6		
	TION/INTERRELATIONSHIP			
	may be used in conjunction with the Lo			
	nded Spare Parts List, and Special Purp	oose Tools and Equ	ipment List, As Delivered	
	ind Specifications.	1		
8.ORIGINA	TOR	9.APPLICABLE F	ORMS	
	011 4 0 7			
	nager SM 4-2-7			
10. PREPA	RATION INSTRUCTIONS			
	References:			
	CETO D 04 400 204/SE 009 Drope	ration of Naval Dra	ventive Maintenance Instructions	
	CFTO D-01-100-204/SF-008 – Prepa dated 28 February 2001.	iralion of Navai Pre	ventive Maintenance instructions,	
	dated 26 February 2001.			
	CFTO D-01-100/204/SF-009 – Specir or Preventive Maintenance Schedule			
10.1	Format: The NPMS contents shall be in MS Office.	prepared, following	g the guidance at the references,	
10.2	Content: The NPMS contents shall be	e in accordance wit	h the reference.	
10.3	Maintenance Schedules are to be built to support two (2), 64 month operation periods between extended docking work periods. Maintenance routines are to be scheduled, as required, as daily, weekly, monthly, 4 monthly, 8 monthly, 16 monthly, 32 monthly, and 64 monthly.			
10.3	Delivery Instructions, review and App	roval Requirements		
	Number of Copies/format:	1 soft copy/MS C		
	Delivery venue:	email	Janes and a Di	
	3. First submission:	PRR Meeting-10)wd	
	4. TA Review/approval:	Yes/Yes		
	Review/Approval lead time:	10wd/10wd		
	6. Subsequent Submission:	NA		
	7. Remarks:		proval run concurrently	
	1		J	

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9.2 DID-ILS-02 Standard Ship Maintenance and Repair Specifications

1.TITLE		2. IDENTIFICATION	ON NUMBER	
Standard S	Ship Maintenance and Repair ons	DID-ILS-02		
3.DESCRII	PTION/PURPOSE			
The purpos	se of the Standard Ship Maintenance ar	nd Repair Specifica	tions (SSMRS) is to set out the	
Maintenand	ce and Repair specifications to be unde	rtaken during Exter	nded Docking Work Periods	
(EDWP).				
4.APPROVAL DATE 5. OFFICE OF PRIMARY INTEREST (OPI) 6.SOW SECTION				
	Project Authority SM 4		10.2.2.1	
- 4	Technical Authority SM 4	-2-6		
7.APPLICATION/INTERRELATIONSHIP				
The SSMRS may be used in conjunction with the Logistics Support Analysis Record, Technical				
8.ORIGINA	S Delivered Drawings and Specifications	9.APPLICABLE F	ODMC	
o.URIGINA	ATOR	9.APPLICABLE F	URIVIS	
Project Ma	nager SM 4-2-7			
	ARATION INSTRUCTIONS			
	References: CFTO D-01-100-231/SF	-001 – Specificatio	n Preparation of Standard Ship	
	Maintenance and Repair Specification	ns, dated 27 Nov 20	011.	
10.1	Format: The SSMRS contents shall b	e prepared, followir	ng the guidance at the references,	
	in MS Office.			
40.0	Control Tie COMPO control de la		20. d	
10.2	Content: The SSMRS contents shall I	be in accordance w	ith the reference.	
10.3	Delivery Instructions, review and App	roval Requirements		
10.0	Number of Copies/format:	1 soft copy/MS C		
	2. Delivery venue:			
	3. First submission:			
	4. TA Review/approval:	Yes/Yes		
	5. Review/Approval lead time:	10wd/10wd		
	6. Subsequent Submission:	NA		
	7. Remarks: Review and Approval run concurrently			

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DID-ILS-03 Technical Data Package 9.3

1.TITLE			2. IDENTIFICATION	ON NUMBER	
Technical D	ata Packag	ge	DID-ILS-03		
3.DESCRIF	TION/PUR	POSE			
				al consolidated delivery of project	
		and Integrated Logistics S	upport documentati	ion required to support the	
equipment/s			WITEDEST (ODI)		
4.APPROV	4.APPROVAL DATE 5. OFFICE OF PRIMARY INTEREST (OPI) 6.SOW SECTION				
	Project Authority SM 4-2 10.2.3.1 Technical Authority SM 4-2-6			10.2.3.1	
7 APPLICA	TION/INTE	RRELATIONSHIP	-2-0		
			istics Support Analy	ysis Record, Technical Manual,	
		and Specifications.		,	
8.ORIGINA		•	9.APPLICABLE F	ORMS	
Project Mar					
		STRUCTIONS			
10.1			repared, following	the guidance of their associated	
	DIDs, in th	neir respective format.			
10.2	Contento	The TDP shall include:			
10.2			ents (TSOR) (Pron	osal/Contracted). Contracted if	
		nt from Proposal.		osal/Gontracted). Gontracted ii	
		n/subsystem Specifications	(Final Version), inc	cluding Procurement	
		ications for Commercial Ov			
		eering Drawings and associ			
		al List (Final Version).		·	
		Data Sheet.			
		ical manuals (final Version)			
		ng Material.	Dravisianina Drasta	dours (DDD)	
		ved Spare parts List (Parts ved SPTATE List.	Provisioning Break	down (PPB).	
		ation/set-To-work procedur	e (Final Version)		
		ional Test Procedure (Final			
		our Acceptance Test Proced			
		cceptance Test Procedure			
	14. Naval	Preventive Maintenance S	chedules; and		
	15. Stand	ard Ship Maintenance and	Repair Specification	ns.	
10.0					
10.3		nstructions, review and App			
		er of Copies/format: ry venue:	1 soπ copy/Source	ce data and .PDF	
		ubmission:	1 ST Delivery +10	wd	
		view/approval:	Yes/Yes	****	
		v/Approval lead time:	10wd/10wd		
		quent Submission:	NA		
1	7. Remai		Review and App	proval run concurrently	

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9.4 DID-ILS-04 Recommended Spare Parts List

1. TITLE		2. IDENTIFICATION NUMB	ER
Recommended Spar	re Parts List	DID-ILS-04	
3. DESCRIPTION/P			
	Recommended Spare Parts List (RSI		ommended Installation, On-
	vel Spares required to support the Ed		
4. APPROVAL DATE			6. SOW SECTION
	Project Authority SM 4-2		10.2.5.1.1
7 ADDLICATION/IN	Technical Authority SM 4-2 TERRELATIONSHIP	(-0	
	ed in conjunction with the Contract, I	Logistics Support Analysis Re	ecord Technical Manual
	s and Test Equipment List, As Delive		
8. ORIGINATOR		LICABLE FORMS	
Project Manager SM	l 4-2-7		
10. PREPARATION	INSTRUCTIONS		
References: C	FTO D-01-100-214/SF-000 – Prepa	ration of Provisioning Docume	entation for CF Equipment,
dated 1 May 20	•	<u> </u>	
10.1 Format: The R	SPL must be prepared, following the	quidance at the references, i	in Microsoft Excel.
10.2 Content:			
	or each type of listed item must, have	e the following completed data	a fields:
	mber (unique sequence number for t		
b. Indentur	`		
c. Item Nar	•		
	ce (Manufacturer's Part) Number;		
	CAGE Code;		
	ort Number;		
	tock Number (if available);		
_	Per Assembly;		
_	d Unit Price;		
	ssue (UOI);		
k. Unit of M	,		
	oility Indicator (REP);		
-	nent Supplied Material (GSM);		
	ment Lead Time (PLT);		
	ce Designation;		
0, 161.16	_		
1 1			
, ,	me Between Failure;		
		up:	
	nended Buy Quantity Total summing	•	
	ommended Buy Installation Spares/S	•	
	ommended Buy On-Board Spares/S	nipset, and	
	ommended Buy Depot Spares;		
t. SMR Co			
_	s Control Number (LCN);		
v. Used Or	n Code; and		

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w. Extended Price Per Item (Standard Unit Price times Recommended Buy Quantity).
The RSPL must have a recommended Total RSPL price summing up the Extended Price Per Items.

2. Sparing Assumptions:

a. Installation-Assume quantity four (4) submarine installs;

b. On-Board Maintenance-Assume quantity four (4) submarines;

c. Depot-Assume quantity 2 supply depots (1 East and 1 West);

d. Two (2) years' worth of On-Board Spares; and

e. Two (2) years' worth of Depot Spares.

10.3 Delivery Instructions, Review and Approval Requirements:

1. Number of Copies/Format: 1 softcopy/ MS Excel and .PDF

2. Delivery Venue: email or FTP

3. First Submission: CDR Meeting -10wd

TA Review/Approval: Yes/Yes
 Review/Approval Lead Time: 10/10
 Subsequent Submission: NA

Remarks: Review and Approval run concurrently

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9.5 DID-ILS-05 Provisioning Parts Breakdown

1. TITLE	2. IDENTIFICATION NUMBER		
Provisioning Parts Breakdown	DID-ILS-05		
3. DESCRIPTION/PURPOSE	•		
The purpose of Provisioning Parts Breakdown (PPB) is	s to provide the approved list of Installation, On-Board and		
Depot Level Spares required to support the equipment			
4. APPROVAL DATE 5. OFFICE OF PRIMARY			
Project Authority SM 4			
Technical Authority SM 4	i-Z-U		
The PPB may be used in conjunction with the Contract,	Logistics Support Analysis Record Technical Manual		
1	at Breakdown, As Delivered Specifications and Drawings.		
	PLICABLE FORMS		
Project Manager SM 4-2-7			
10. PREPARATION INSTRUCTIONS			
Reference: CFTO D-01-100-214/SF-000 - Prepa	ration of Provisioning Documentation for CF Equipment,		
dated 1 May 2002			
10.1 Format: The PPB must be prepared, following the	e guidance at the references, in Microsoft Excel.		
10.2 Content: The PPB, as a minimum, must have the	e following content for each type of line:		
1. The RSPL for each type of listed item must ha	ve the following completed data fields:		
a. Item Number (unique sequence number fo	r the list);		
b. Indenture Code;			
c. Item Name;			
d. Reference (Manufacturer's Part) Number;			
e. NSCM/CAGE Code;			
f. OEM Part Number;			
g. NATO Stock Number (if available);			
h. Quantity Per Assembly;			
i. Standard Unit Price;			
j. Unit of Issue (UOI);			
k. Unit of Measure;			
I. Reparability Indicator (REP);			
m. Government Supplied Material (GSM);			
n. Procurement Lead Time (PLT);			
o. Reference Designation;			
p. Shelf Life;			
q. Usage Rate;			
r. Mean Time Between Failure;			
s. Recommended Buy Quantity Total summing up:			
i. Approved Buy Installation Spares/Shipset;			
ii. Approved Buy On-Board Spares/Shipset; and			
iii. Approved Buy Depot Spares			
t. SMR Code;			
u. Logistics Control Number (LCN);			
v. Used On Code; and			
v. Osca On Oode, and			

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- w. Extended Price Per Item (Standard Unit Price times Recommended Buy Quantity).
- 2. Supplementary Provisioning Technical Documentation (SPTD). For each type of item that has not already been assigned a NATO Stock Number (NSN), the following Supplementary Provisioning Technical Documentation is required to assist in the NSN cataloguing process:
 - a. Item Name;
 - b. Manufacturer's Part Number;
 - c. CAGE Code; and
 - d. As applicable:
 - Configuration-drawing of item, assembly, wiring or schematic drawing, illustrated parts list;
 - ii. Technical Specification, including relevant standard;
 - iii. Physical Characteristics, such as dimensions, tolerances, materials, mandatory processes, surface finish, protective coating;
 - iv. Electrical Characteristics;
 - v. Performance data, including the environmental and operating conditions under which the item must perform;
 - vi. Mounting Requirements;
 - vii Special features which contribute to the uniqueness of the item; and
 - viii. Commercial Catalogue Data.
- 3. The SPTD must be sequenced in the same order as the provisioning list that it supplements; and
- 4. The SPTD must include identification of any limitations on the use or publication of any data provided.
- 10.3 Delivery Instructions, Review and Approval Requirements:

Number of Copies/Format: 1 soft copy/MS Excel and .PDF

Delivery Venue: email or FTP
 First Submission: PRR -10wd
 TA Review/Approval: Yes/Yes
 Review/Approval Lead Time: 10/10
 Subsequent Submission: NA

7. Remarks: Review and Approval run concurrently

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9.6 DID-ILS-06 Contractor End Items List

1. TI	TLE			2. IDENTIFICATION NUMB	ER
Con	Contractor End Items List (CEIL)			DID-ILS-06	
3. D	ESCRIPTION/PURPOSE				
The	purpose of the Contractor	End Items List (C	EIL) is to	provide a list of all delivered	items (excluding CDRL
	s) and where they were sh				
4. Al			IMARY INTEREST (OPI) 6. SOW SECTION		
		roject Authority	SM 4-2		10.2.6.6.1
		echnical Authorit	y SM 4-2-	·6	
	PPLICATION/INTERRELA	-			
		nction with the Co		d its associated non-CDRL o	leliverables.
	RIGINATOR		9. APPL	ICABLE FORMS	
	ect Manager SM 4-2-7				
10. F	PREPARATION INSTRUC	TIONS			
10.1	Format: The CEIL List mu	ıst be prepared, i	n Contrac	tor format in MS Office.	
10.2	Content: As a minimum th	ne CEIL should in	clude: for	each delivered item:	
	1. Item #;				
	2. Description;				
	3. Quantity; and				
	4. Shipped to.				
	i. Chipped to.				
40.0	Dalinama Inatonatiana Davi	A	D	4	
10.3 Delivery Instructions, Review and Approval Requirements:					
	Number of Copies/Format: 1 soft copy/MS Excel and .PDF				
	2. Delivery Venue:	email o	r FTP		
	3. First Submission:	Final D	elivery +1	0wd	
	4. TA Review/Approval:	Yes/NA			
	5. Review/Approval Lead	d Time: 10/NA			
	6. Subsequent Submissi				
	7. Remarks:	NA			

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VVO+12-2550000 VVO+12-2555000

9.7 DID-ILS-07 Technical Manual

1. TITLE		2. IDENTIFICATION NUMBER		
Technical Manual		DID-ILS-07		
3.DESCRIF	3.DESCRIPTION/PURPOSE			
			vide instructions for th	ne Operation and Maintenance of
	the Equipment or System. 4. APPROVAL DATE 5. OFFICE OF PRIMARY INTEREST (OPI) 6. SOW SECTION			6. SOW SECTION
/	\ /			10.2.7.1
		Technical Authority SM 4-		
7. APPLIC	ATION/INTE	RRELATIONSHIP:		
				s List, Special Purpose Tools and
				s, Naval preventive Schedules,
		nce and Repair Specification		
8. ORIGIN			9. APPLICABLE F	ORMS
	nager SM 4-			
10. PREP		STRUCTIONS		
		CFTO C-01-100-100/AG-00	06 – Writing Format a	and Production Technical
	Publications	s, dated 1 March 1996.		
10.1	The TM sha	all be prepared, following the	a guidance at the refe	oroncos in MS Offico
10.1	THE TWISH	all be prepared, following the	e guidance at the reit	erences, in wis Office.
	Content: Th	ne TM, as a minimum, shall	have the following co	ontent as applicable
10.2			nave are renewing ec	mont do applicable.
	1. Purpose. 2. Identify:			
	a.	Manufacturer/Supplier	; and	
	b.	Equipment location x 0		Code NSN.
	3. Design and performance Data:			
	a. May reference associated publications.			
	4. Ser	vices Required:		
	a. Identify Power and other services.			
	5. Logistics Requirements:			
	a.	Identify any special log	jistics requirements.	
		fety Precautions. sociated Documentation:		
			76.	
	a. Maintenance Schedules;			
	b. Drawings;c. Ship's Operating Procedures (SOP); and			
	d. Emergency Operating procedures (SOPs).			
	8. Functional Diagrams.			
	9. Operating Information:			
	a. Čautions			
	1. "Category 2 operating information defines the design performance intentions			
	based on operational design intent. The equipment operation given in this			
	category is based on manufacturer's recommendations, the procedures and			
	sequences described do not override Ship's Operation Procedures (SOP) or			
	Emergency Operating Procedures (EOP), local orders or statutory requirements			
	concerning operating procedures or safety precautions any adequate or incorrec			
	procedures should be reported to the appropriate administrative authority."			ne auministrative aumonty.
	b.	Operating Limitations: i) Normal Mode;		
		i) Normal Mode;ii) Alternative Mode;		
	iii) Alternative Mode, iii) Arctic and Tropical Climates;			
		iv) Shore Supplies;	onatoo,	
	1	, Chord dupphed,		

Annex A-Appendix 2 61/62	GALLEY IMPROVEMENT FOR THE VCS	DIDs	Revision	Date
			Draft	25 May 2022

 $\label{eq:continuous} \begin{array}{l} \text{Solicitation No. - N}^{\circ} \text{ de l'invitation} \\ W8472-235880/A \\ \text{Client Ref. No. - N}^{\circ} \text{ de réf. du client} \\ W8472-235880 \end{array}$

Amd. No. - N° de la modif.

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	v) Radiation I	Hazard;		
ĺ				
	vi) Ships Liste	ed; and		
	vii) Defects.			
		nd Setting up prior to Starting		
	i) Services re			
		:/system – general; and		
	iii) Equipment	:/System Sub-Elements Specific.		
	d. Starting Procedure			
	i) Normal Mo			
	ii) Alternative	Mode.		
	e. Running Procedure	es:		
	i) Normal Mo	ode;		
	ii) Equipment	:/System Sub-Systems elements; and		
	iii) Additional	elements.		
	f. Control change-Ov	rer procedures;		
	g. Stopping Instructio	ns:		
	i) Normal Mo	ode; and		
	ii) Alternative	Mode.		
	h. Maintenance Proce	edures:		
	i) Shipboard-			
	ii) Repair Fac	,		
	 i. Emergency Proced 	Emergency Procedures		
	ii) Emergency			
	iii) Emergency	,		
	j. Diagnostic and Rep	Diagnostic and Repair Information 1;		
	i) Fault Diagi			
	ii) Fault Diagi	i) Fault Diagnostic and Repair Information 2; and		
	iii) Fault Diagi	i) Fault Diagnostic and Repair information.		
	k. Illustrated Parts Ca	stalogue. In sufficient detail to aid the identification of		
	component parts o	r assemblies of parts to provide the information necessary for		
	the demanding of s	spares.		
10.3	Delivery Instructions, review an	d Approval Requirements		
	Number of Copies/format:	1 soft copy/MS Office and .PDF		
	2. Delivery venue:	email		
	3. First submission:	PRR -10wd		
	4. TA Review/approval:	Yes/Yes		
	5. Review/Approval lead time:	20/20		
	6. Subsequent Submission:	NA		
	7. Remarks	NA		