TECHNICAL BID EVALUATION PLAN

For The

WATERTIGHT PRESSURE VESSELS SYSTEM

PROJECT

Prepared by: Project Team

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Date:

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_____ Date: _____

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REVISION NOTICE

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1 Introduction

1.1 Purpose

The purpose of this Bid Evaluation Plan (BEP) is to describe the objectives, selection methodology and processes that will be used for the bid evaluation of the proposals (bids) received in response to the Request for Proposal (RFP) Solicitation W8472-155577 for the Water Tight Pressure Vessel (WTPV) System Project.

1.2 Objectives

The objectives of this bid evaluation are to:

- 1. Score the bidders' proposals in accordance with the mandatory and rated requirements as per this BEP;
- 2. Provide consensus scores with rationale for each rated bidder's response to these requirements;
- 3. Provide a final report to Public Services and Procurement Canada (PSPC) stating the scores for each compliant bidder and their rankings.

1.3 Conduct of the Evaluation

In the spirit of fairness and due diligence, all those involved in the evaluation process will exercise integrity and apply consistency in their approach to the evaluation.

1.3.1 Integrity

Bidders proposals will be only be evaluated against the requirements in the RFP using the evaluation criteria in this BEP.

1.3.2 Consistency

Each evaluator will in their individual approach to the scoring, consistently apply the evaluation criteria across all bidders' responses.

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2 Contractor Selection Methodology

2.1 Proposal Content

Bidders will be required to submit their proposals in accordance with the instructions to bidders contained in Solicitation W8472-155577. In developing their proposals, bidders must bear in mind the individual requirements found in the following sections:

- 1. Mandatory requirements found at Appendix 1 to this BEP; and
- 2. Rated Statement of Work (SOW) and System Requirements Document (SRD) Requirements at Appendix 2 to this BEP.

2.2 Method of Evaluation

2.2.1 General

All bids will be evaluated based on price and mandatory and rated requirements. The PSPC Contracting Authority (CA) will evaluate and score the price. The Department of National Defence (DND) Technical Assessment Team will evaluate and determine how the bid meets the mandatory and rated requirements.

2.2.2 Mandatory Requirements Rating System

Mandatory requirements are scored Pass or Fail. Proposals that do not meet all mandatory requirements will be considered to be non-compliant and will not be assessed further.

2.2.3 Rated Requirements Rating System

2.2.3.1 Definitions

In the context of rated requirements, the terms score, point, weight factor and rating are defined as follows:

Score = Points * Weight Factor

Ratings are derived from the individual total score in order from highest to lowest.

2.2.3.2 General

Proposals that satisfy all mandatory requirements will have their rated requirements assessed in accordance with the rating scale shown in Table 1. The levels of the rating scale are distinguished by detailed assessment criteria, which are defined in Appendix 2 for all rated requirements. For some requirements, assessment criteria do not exist to establish all levels of the rating scale. Rated requirements have an associated weighting factor of 1 to 3. This rating system will yield a maximum possible score of 249. To be compliant, proposals must achieve a score of at least 60% of the maximum possible score (a minimum score of 150).

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Points	Description
3	Excellent
2	Good
1	Fair
0	Not Addressed/Unsatisfactory

Table 1: Rated Requirements Rating Scale

2.2.4 Final Score

Proposals will be assigned a final score out of 100 based on technically scored rated requirements and a financial score. The final score is calculated as follows:

Final Score = Technical Score + Financial Score

The maximum scores that can be achieved are as follows:

Technical Score	55
Financial Score	45

Calculation of technical and financial scores are explained below.

2.2.4.1 Technical Score

The compliant proposal with the highest rated requirements score will be awarded a technical score of 55. All other proposals are prorated as follows:

$$Technical Score = \left(\frac{Individual Compliant Proposal Score}{Highest Compliant Proposal Score}\right) * 55$$

2.2.4.2 Financial Score

The PSPC CA will award the compliant proposal with the lowest bid price a financial score of 45. All other proposals are prorated as follows:

$$Financial \ Score = \left(\frac{Lowest \ Compliant \ Proposal \ Price}{Individual \ Compliant \ Proposal \ Price}\right) * 45$$

Proposals which do not provide price information will be awarded a financial score of zero.

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2.2.5 Summary

Table 2 summarizes the method of evaluation for this BEP.

Assessment	Maximum	Minimum	Minimum	Maximum
	Possible Score	Percentage to	Score to Pass	Possible Final
		Pass		Score
Mandatory	N/A	100% (All	All Pass	N/A
Requirements		Pass)		
Final Score: only bids satisfying all mandatory requirements will be assessed				essed
Final Score	N/A	N/A	N/A	100
Rated	249	60%	150	55
Requirements				
SOW	90	-	-	-
SRD	159	-	-	-
WTPV	111	-	-	-
OBM RA	30	-	-	-
WTPV MA	18	-	-	-
Price	N/A	N/A	N/A	45

Table 2: Method of Evaluation Summary

2.3 Contractor Selection

The PSPC CA will recommend contract award to the bidder with the compliant proposal which achieves the highest final score.

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3 Bid Evaluation Process

3.1 Introduction

The Technical Assessment Team will review and evaluate one proposal at a time. Mandatory requirements will be evaluated first, rated requirements will be evaluated thereafter. During the evaluation, the Technical Assessment Team Lead will convene meetings of team members to discuss scores, requirements and/or comments, questions, or concerns. The Technical Assessment Team will prepare a consolidated Technical Bid Evaluation Report which summarizes the results of the evaluation of each proposal. This report will be forwarded to the PSPC CA.

3.2 Evaluation of Mandatory Requirements

Mandatory Pass or Fail requirements and the associated evaluation matrix can be found at Appendix 1 to this BEP. A proposal must comply with all mandatory requirements. Compliance with a mandatory requirement indicates that the bidder claims complete agreement with, or complete acceptance of, all elements of the requirement as presented.

In their proposal, the bidder must provide objective evidence that their bid will meet mandatory requirements. For each mandatory requirement, the Technical Assessment Team will individually assess the bidder's provided objective evidence and assign a Pass or Fail score to that evaluation. Where differences in assessment exist between team members, the rationale for these differences will be discussed and a Pass or Fail score will be assigned, based on consensus. Clarifications may be sought, through the Request for Clarification (RFC) process, if doubt exists with respect to the Bidder's compliance with a requirement. The RFC process is described in Section 3.4. In the event that any mandatory requirement is not addressed or after RFC is still not assessed as a Pass, the proposal will be considered non-compliant, rejected and given no further consideration.

3.3 Evaluation of Rated Requirements

3.3.1 SOW Rated Requirements

The bidder's proposal response to SOW requirements will be evaluated using the SOW Rated Requirements Assessment Sheet at Appendix 2. Objective evidence required for assessment is as follows:

- Project Management Plan (PMP), including:
 - Work Breakdown Structure (WBS)
 - Project Schedule (PS)
 - Risk Register (RR)
- Resumes for the following personnel:
 - Project Manager (PM)
 - Project Engineer (PE)
 - Production Manager

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3.3.2 SRD Rated Requirements

The bidder's proposal response to SRD requirements will be evaluated using the SRD Rated Requirements Assessment Sheet at Appendix 2. Objective evidence required for assessment includes written descriptions, bounding box dimensions and approximate locations of various components of proposed WTPV systems. The bidder shall also complete Appendix 3, the WTPV System Technical Compliance Matrix, in order to acknowledge compliance with all SRD requirements.

Written descriptions are required for:

- Type(s) of securing attachment(s) for opening cover
- Restraining Arrangement (RA) design
- Method of attaching WTPV to WTPV Mounting Arrangement (MA)
- Method of attaching WTPV RA to WTPV
- Cross-sectional shape of interior of WTPV
- Shape of WTPV ends
- Detailing how opening cover does not impede removal of Out Board Motor (OBM) and RA from WTPV
- Pressure equalizing capability
- Vacuum test capability
- Drainage capability
- Interface between RA and OBM
- Method of tethering RA to WTPV, including justification for how tethering system is vibration and noise resistant
- Written description of procedure required to remove and replace RA on OBM
- Interface between RA and WTPV and RA and OBM, including materials to be used in interface and justification for how interface is vibration resistant
- Interface between MA and WTPV, including materials to be used in interface and justification for how interface is noise and vibration resistant

Three dimensional (3D) bounding boxes must be defined for some system components. These boxes must fully contain all points of a given geometric shape while having the minimum dimensions possible. Length, width and height bounding box dimensions must be provided, along with the location of the bounding box vertex which satisfies all of the following spatial criteria:

X (longitudinal direction): Furthest forward point of individual bounding box

Y (transverse direction): Furthest port point of individual bounding box

Z (vertical direction): Lowest point of individual bounding box

The location of this vertex must be provided as a measurement from the SBS Well datum, which is defined at the following position:

X: Centreline (CL) of Pack (7 mm aft of Frame 63)

Y: Vessel CL

Z: Top of mounting arrangement seat

Bounding box dimensions and the location of the bounding boxes relative to the SBS Well datum are required for:

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- OBM and RA removal routes (within Small Boat Stowage [SBS] Well)
- Interior of WTPV
- MA
- Exterior of WTPV
- Deflated boats and fuel bladders
- Interior of WTPV at open end two dimensional (2D) only
- Exterior of opening cover

In addition, approximate locations of the following components, relative to the SBS Well datum, are required for:

- Pressure equalizing capability
- Vacuum test capability
- Drainage capability

Preferably, bounding box dimensions and locations are to be provided on a 2D drawing of the proposed WTPV system, with a minimum of three views (plan, profile and section). However, proposals will not be assessed fewer points if dimensions and locations are provided by other means. It is also important to note that these objective evidence requirements should not be interpreted as a limitation to the amount of information a bidder can provide in their proposal.

3.4 Request for Clarification

3.4.1 Process

The Request for Clarification (RFC) Process is outlined in Figure 1 below.

3.4.2 Evaluation Manager Role and Responsibilities

The Evaluation Manager will manage the RFC process and make the necessary changes to the Technical Team Member's original request to ensure that RFCs do not solicit the Bidder for additional information. The Evaluation Manager will forward the RFC to PSPC for onward transmission to the Bidder. Bidders shall have the period indicated on the RFC to respond. Canada may disqualify any Bidder who fails to comply with such a request within the specified response period. Once the Bidder's response to the RFC is received by PSPC, it will be forwarded to the Evaluation Manager, who will update the answer to the RFC and notify the team. At any point throughout the evaluation process the Technical Team Members can view all outstanding RFCs raised by the team.

3.4.3 Raising an RFC

An RFC can be raised by any Technical Team Member or Team Lead. When a requirement has an RFC raised against it, this requirement will be suspended from scoring by all other Technical Team Members until the RFC is answered or rejected by the Evaluation Manager.

3.4.4 Bidders Response to an RFC

The RFC flow diagram can be found in Figure 1 below.

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Figure 1: Request for Clarification (RFC) Process Flow Diagram

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4 Acronyms and Abbreviations

2D	Two Dimensional
3D	Three Dimensional
BEP	Bid Evaluation Plan
CA	Contracting Authority
CDRL	Contract Data Requirements List
DID	Data Item Description
DND	Department of National Defence
HP	Horsepower
IAW	In Accordance With
MA	Mounting Arrangement
MFE	Multi-Fuel Engine
OBM	Out Board Motor
PE	Project Engineer
PM	Project Manager
PMP	Project Management Plan
PS	Project Schedule
PSPC	Public Services and Procurement Canada
QMS	Quality Management System
RA	Restraining Arrangement
RFC	Request for Clarification
RFP	Request for Proposal
RR	Risk Register
SBS	Small Boat Stowage
SOW	Statement of Work
SRD	System Requirements Document
TCM	Technical Compliance Matrix
USG	United States Gallon
WBS	Work Breakdown Structure
WTPV	Water Tight Pressure Vessel

5 Appendices

Appendix 1 WTPV System Mandatory Requirements Appendix 2 WTPV System Rated Requirements Appendix 3 WTPV System Technical Compliance Matrix

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WTPV BID EVALUATION MATRIX			
Mandatory Requi	rement	S	
	Compliant		Reference to
Requirements	Yes	No	applicable page and paragraph of Proposal
Experience The bidder, in the marine environment, must have designed and delivered within the last five (5) years, at least one (1) WTPV System in similar complexity and functionality. The bidder must provide the project name or description, contract value, scope of work completed, duration of project, date delivered, and client name and contact info.			
Quality Assurance The bidder must have a Quality Management System (QMS) that meets ISO 9001:2008 or later or demonstrate how their QMS addresses each requirement of the standard.			
Requirements Agreement The bidder has submitted with their Proposal a completed Technical Compliance Matrix (TCM), in accordance with Appendix 3 to the Bid Evaluation Plan, demonstrating agreement to the requirements contained in the WTPV SRD's for the WTPV, OBM RA and WTPV MA.			

Appendix 1 WTPV System Mandatory Requirements

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Appendix 2 WTPV System Rated Requirements

SOW Rated Requirements Assessment Sheet

Requirement	Objective	Assessment Criteria	Rating	Weight	Maximum	Points
-	Evidence		Achieved	Factor	Possible	Achieved
	Required			(1 to 3)	Points	
Project Manager The Contractor's Project Management Organization must be led by a dedicated Project Manager (PM) who must have the authority to plan, direct, control and make decisions for the Contract in accordance with (IAW) this SOW. The Contractor's PM must be the main point of contact with Canada. The PM must have a minimum of five years experience managing projects for the marine environment.	Project Manager's resume	Rated as follows: 3 – Excellent PM's resume is provided and PM has ten or more years experience managing projects for the marine environment 2 – Good PM's resume is provided and PM has more than five and less than ten years experience managing projects for the marine environment 1 – Fair PM's resume is provided and PM has five years experience managing projects for the marine environment 0 – Not Addressed/ Unsatisfactory PM's resume is not provided or PM has less than five years experience managing projects for the marine environment		2	6	
	Requirement Project Manager The Contractor's Project Management Organization must be led by a dedicated Project Manager (PM) who must have the authority to plan, direct, control and make decisions for the Contract in accordance with (IAW) this SOW. The Contractor's PM must be the main point of contact with Canada. The PM must have a minimum of five years experience managing projects for the marine environment.	RequirementObjective Evidence RequiredProject Manager The Contractor's Project Management Organization must be led by a dedicated Project Manager (PM) who must have the authority to plan, direct, control and make decisions for the Contract in accordance with (IAW) this SOW. The Contractor's PM must be the main point of contact with Canada. The PM must have a minimum of five years experience managing projects for the marine environment.Objective Evidence Required	RequirementObjective Evidence RequiredAssessment CriteriaProject Manager The Contractor's Project Management Organization must be led by a dedicated Project Manager (PM) who must have the authority to plan, direct, control and make decisions for the Contract in accordance with (IAW) this SOW. The Contractor's PM must be the main point of contact with Canada. The PM must have a minimum of five years experience managing projects for the marine environment.Rated as follows: 3 - Excellent PM's resume is provided and PM has ten or more years experience managing projects for the marine environment 1 - Fair PM's resume is provided and PM has five years experience managing projects for the marine environment.Project Manager Project Manager (PM) who must have the authority to plan, direct, control and make decisions for the Contract with Canada. The PM must have a minimum of five years experience managing projects for the marine environment.Rated as follows: 3 - Excellent PM's resume is provided and PM has more than five and less than ten years experience managing projects for the marine environment 0 - Not Addressed/ Unsatisfactory PM's resume is not provided or PM has less than five years experience managing projects for the marine environment	RequirementObjective Evidence RequiredAssessment CriteriaRating AchievedProject Manager The Contractor's Project Managernet Organization must be led by a dedicated Project Manager (PM) who must have the authority to plan, direct, control and make decisions for the Contractor's PM must be the main point of contact with Canada. The PM must have a minimum of five years experience managing projects for the marine environmentRated as follows: 3 – Excellent PM's resume is provided and PM has ten or more years experience managing projects for the marine environment2 – Good PM's resume is provided and PM has more than five and less than ten years experience managing projects for the marine environmentPM's resume is provided and PM has five years experience managing projects for the marine environment0 – Not Addressed/ Unsatisfactory PM's resume is not provided or PM has less than five years experience managing projects for the marine environment	RequirementObjective Evidence RequiredAssessment CriteriaRating AchievedWeight Factor (1 to 3)Project Manager The Contractor's Project Management Organization must be led by a dedicated Project Manager (PM) who must have the authority to plan, direct, control and make decisions for the Contract in accordance with (IAW) this SOW. The Contractor's PM must be the main point of contact with Canada. The PM must have a minimum of five years experience managing projects for the marine environmentPM's resume is provided and PM has more than five and PM has more than five and PM has five years experience managing projects for the marine environmentPM's resume is provided and PM has five years experience managing projects for the marine environmentPM's resume is provided and PM has five years experience managing projects for the marine environment0 – Not Addressed/ Unsatisfactory PM's resume is not provided or PM has less than five years experience managing projects for the marine environmentI – Fair PM's resume is not provided or PM has less than five years experience managing projects for the marine environment	RequirementObjective Evidence RequiredAssessment CriteriaRating AchievedWeight Factor (1 to 3)Maximum Possible PointsProject Manager The Contractor's Project Managerent Organization must be led by a dedicated Project Manager (PM) who must have the authority to plan, direct, control and make decisions for the Contract in accordance with (1AW) this SOW. The Contract or's PM must be the main point of contact with a minimum of five years experience managing projects for the marine environment.26PM's resume is provided and PM has more than five and less than ten years experience managing projects for the marine environment888PM's resume is provided and PM has more than five and less than ten years experience managing projects for the marine environment1-FairPM's resume is provided and PM has five years experience managing projects for the marine environment1-FairPM's resume is provided and PM has five years experience managing projects for the marine environment0-Not Addressed/ Unsatisfactory PM's resume is not provided or PM has less than five years experience managing projects for the marine environment-Not Addressed/ Unsatisfactory PM's resume is not provided or PM has less than five years experience managing projects for the marine environment

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SOW	Requirement	Objective	Assessment Criteria	Rating	Weight	Maximum	Points
Section	-	Evidence		Achieved	Factor	Possible	Achieved
		Required			(1 to 3)	Points	
4.2	Project Management Plan	Project	Rated as follows:		3	9	
	The Contractor must prepare	Management	3 – Excellent		0	-	
	and deliver a Project	Plan	PMP complete, all				
	Management Plan (PMP)		requirements satisfied				
	IAW Contract Data		2 – Good				
	Requirements List (CDRL)		PMP is missing information				
	item CDRL-PM-01 and Data		in one area				
	Item Description (DID)		1 – Fair				
	DID-PM-01. The PMP must		PMP is missing information				
	identify how the Contractor		in more than one and less				
	intends to fulfill the		than six areas				
	requirements of this SOW.		0 – Not Addressed/				
	The Contractor must manage		Unsatisfactory				
	the project IAW the		PMP is not provided or is				
	approved PMP.		missing information in six or				
101		XX / 1	more areas		2	0	
4.2.1	Work Breakdown	Work	Rated as follows:		3	9	
	Structure	Breakdown	3 – Excellent				
	The Contractor's PMP must	Structure	wBS satisfies all				
	Proskdown Structure	(with PMP)	2 Good				
	(WBS) The Contractor		2 – Good WBS satisfies all				
	must prepare and deliver a		requirements however one				
	WBS IAW CDRL item		I evel 3 element is missing				
	CDRL PM-02 and DID-PM-		1 - Fair				
	02.		WBS satisfies all				
			requirements, however more				
			than one and less than six				
			Level 3 elements are missing				
			0 – Not Addressed/				
			Unsatisfactory				
			WBS is not provided, does				
			not meet requirements, or				

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SOW	Requirement	Objective	Assessment Criteria	Rating	Weight	Maximum	Points
Section	-	Evidence		Achieved	Factor	Possible	Achieved
		Required			(1 to 3)	Points	
		Itequireu	six or more Level 3 elements		(1 to 5)	Tomes	
			are missing				
4.2.2	Project Schedule	Project	Rated as follows:		3	9	
	The Contractor's PIVIP must	Schedule	5 – Excellent DS satisfies all requirements				
	(PS) The Contractor must	(with PMP)	2 – Good				
	prepare and deliver a PS		PS satisfies all requirements				
	IAW CDRL item CDRL-		however one discreet				
	PM-03 and DID-PM-03		task/activity is missing or is				
			incorrectly scheduled				
			1 – Fair				
			PS satisfies all requirements,				
			however more than one and				
			less than six discreet				
			tasks/activities are missing				
			or are incorrectly scheduled				
			0 – Not Addressed/				
			Unsatisfactory				
			PS is not provided, does not				
			meet requirements, or six or				
			more discreet tasks/activities				
			incorrectly scheduled				
131	Disk Dogistor	Rick Register	Rated as follows:		1	3	
ч.J.1	The Contractor must prepare	(with PMP)	3 – Excellent		1	5	
	and deliver a Risk Register	(while i will)	RR includes minimum				
	(RR) IAW CDRL item		content				
	CDRL-PM-04 and DID-PM-		0 – Not Addressed/				
	04.		Unsatisfactory				
			RR is not provided or does				
			not include minimum				
			content				

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SOW	Requirement	Objective	Assessment Criteria	Rating	Weight	Maximum	Points
Section	1	Evidence		Achieved	Factor	Possible	Achieved
~ ~ ~ ~ ~ ~ ~ ~ ~ ~		Required			(1 to 3)	Points	
5.1.2	Project Engineer The Contractor must assign a dedicated Project Engineer (PE) responsible to the Contractor's PM to manage the engineering work required for this project. The Contractor's PE must have the authority to plan, direct, control and make decisions for the Contractor with respect to the engineering aspects of this project. The PE must have a minimum of five years experience managing engineering work of a similar nature.	Project Engineer's resume	Rated as follows: 3 – Excellent PE's resume is provided and PE has ten or more years experience managing engineering work of a similar nature 2 – Good PE's resume is provided and PE has more than five and less than ten years experience managing engineering work of a similar nature 1 – Fair PE's resume is provided and PE has five years experience managing engineering work of a similar nature 0 – Not Addressed/ Unsatisfactory PE's resume is not provided or PE has less than five years experience managing engineering work of a similar nature		2	6	
5.1.3	Engineering Reviews and Audits The Contractor must prepare and conduct Engineering Reviews and Audits in accordance with (IAW) reference 1.	Project Schedule (with PMP)	Rated as follows: 3 – Excellent PS includes all requested Engineering Reviews and Audits, correctly scheduled 2 – Good PS includes all but one requested Engineering		2	6	

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SOW	Requirement	Objective	Assessment Criteria	Rating	Weight	Maximum	Points
Section	Requirement	Evidence	rissessment enterna	Achieved	Footor	Dossible	Achieved
Section		Evidence		Acmeved	Factor	Possible	Acmeved
		Required			(1 to 3)	Points	
			Review and Audit or one				
			requested Engineering				
			Review and Audit is				
			incorrectly scheduled				
			1 – Fair				
			PS includes all but two				
			requested Engineering				
			Reviews and Audits or two				
			requested Engineering				
			Reviews and Audits are				
			incorrectly scheduled				
			0 – Not Addressed/				
			Unsatisfactory				
			PS is not provided, is				
			missing more than two				
			requested Engineering				
			Reviews and Audits, or				
			more than two requested				
			Engineering Reviews and				
			Audits are incorrectly				
			scheduled				
5.2.3.3	Engineering Analysis	Project	Rated as follows:		2	6	
	See SOW	Schedule	3 – Excellent				
		(with PMP)	PS includes all requested				
			Engineering Analysis tasks,				
			correctly scheduled				
			2 – Good				
			PS includes all but one				
			requested Engineering				
			Analysis task or one				
			requested Engineering				
			Analysis task is incorrectly				
			scheduled				
			1 – Fair			1	

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SOW	Requirement	Objective	Assessment Criteria	Rating	Weight	Maximum	Points
Section	1	Evidence		Achieved	Factor	Possible	Achieved
		Required			(1 to 3)	Points	
		Required	PS includes all but two		(1 to 5)	Tomus	
			requested Engineering				
			Analysis tasks or two				
			requested Engineering				
			Analysis tasks are				
			incorrectly scheduled				
			0 – Not Addressed/				
			Unsatisfactory				
			PS is not provided, is				
			missing more than two				
			requested Engineering				
			Analysis tasks, or more than				
			two requested Engineering				
			Analysis tasks are				
507		During	Incorrectly scheduled		2	6	
5.2.7	First Article System Test	Project	Rated as follows:		2	0	
	See SOW	(with DMD)	5 – Excellent DS includes all requested				
		(with Fivir)	First Article System (FAS)				
			Test tasks_correctly				
			scheduled				
			2 - Good				
			PS includes all but one				
			requested FAS Test task or				
			one requested FAS Test task				
			is incorrectly scheduled				
			1 – Fair				
			PS includes all but two				
			requested FAS Test tasks or				
			two requested FAS Test				
			tasks are incorrectly				
			scheduled				
			U – Not Addressed/				
		1	Unsatistactory	1	1	1	

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SOW	Requirement	Objective	Assessment Criteria	Rating	Weight	Maximum	Points
Section	-	Evidence		Achieved	Factor	Possible	Achieved
		Required			(1 to 3)	Points	
			PS is not provided, is missing more than two requested FAS Test tasks, or more than two requested FAS Test tasks are incorrectly scheduled				
6.1.2	Production Manager The Contractor must have a dedicated Production Manager responsible to the Project Manager to carry out the work required for this contract. The Contractor's Production Manager must have the authority to plan, direct, control and make decisions for the Contractor with respect to the production aspects of this contract. The Production Manager must have a minimum of five years experience managing production work of a similar nature.	Production Manager's resume	Rated as follows: 3 – Excellent Production Manager's resume is provided and Production Manager has ten or more years experience managing production work of a similar nature 2 – Good Production Manager's resume is provided and Production Manager has more than five and less than ten years experience managing production work of a similar nature 1 – Fair Production Manager's resume is provided and Production Manager's resume is provided and Production Manager has five years experience managing production work of a similar nature 0 – Not Addressed/ Unsatisfactory Production Manager's resume is not provided or Production Manager has less		2	6	

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SOW	Requirement	Objective	Assessment Criteria	Rating	Weight	Maximum	Points
Section		Evidence		Achieved	Factor	Possible	Achieved
		Required			(1 to 3)	Points	
		•	than five years experience				
			managing production work				
			of a similar nature				
6.2	Production Tasks	Project	Rated as follows:		2	6	
	See SOW	Schedule	3 – Excellent				
		(with PMP)	PS includes all requested				
			production tasks, correctly				
			scheduled				
			2 – Good				
			PS includes all but one				
			requested production task or				
			one requested production				
			task is incorrectly scheduled				
			I – Fair				
			PS includes all but two				
			requested production tasks				
			or two requested production				
			schodulod				
			0 - Not Addressed/				
			Unsatisfactory				
			PS is not provided is				
			missing more than two				
			requested production tasks				
			or more than two requested				
			production tasks are				
			incorrectly scheduled				
7.2	Quality System	Project	Rated as follows:		2	6	
	See SOW	Schedule	3 – Excellent				
		(with PMP)	PS includes all requested				
			QA tasks, correctly				
			scheduled				
			2 – Good				

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SOW	Requirement	Objective	Assessment Criteria	Rating	Weight	Maximum	Points
Section	Requirement	Evidence	Assessment Criteria	Achieved	Factor	Dessible	Ashiavad
Section		Evidence		Acmeved	Factor	Possible	Acmeved
		Required			(1 to 3)	Points	
			PS includes all but one				
			requested QA task or one				
			requested QA task is				
			incorrectly scheduled				
			1 – Fair				
			PS includes all but two				
			requested QA tasks or two				
			requested QA tasks are				
			incorrectly scheduled				
			0 – Not Addressed/				
			Unsatisfactory				
			PS is not provided, is				
			missing more than two				
			requested QA tasks, or more				
			than two requested QA tasks				
-			are incorrectly scheduled				
8	Configuration	Project	Rated as follows:		2	6	
	Management	Schedule	3 – Excellent				
	See SOW	(with PMP)	PS includes all requested				
			CM tasks, correctly				
			scheduled				
			2 – Good				
			PS includes all but one				
			requested CM task or one				
			requested CM task is				
			incorrectly scheduled				
			1 - Fair				
			rs includes all but two				
			requested CIVI tasks or two				
			incorrectly scheduled				
			0 Not Addressed/				
			U = 1101 Addressed/				
8	Configuration Management See SOW	Project Schedule (with PMP)	 0 – Not Addressed/ Unsatisfactory PS is not provided, is missing more than two requested QA tasks, or more than two requested QA tasks are incorrectly scheduled Rated as follows: 3 – Excellent PS includes all requested CM tasks, correctly scheduled 2 – Good PS includes all but one requested CM task or one requested CM task is incorrectly scheduled 1 – Fair PS includes all but two requested CM tasks or two requested CM tasks are incorrectly scheduled 0 – Not Addressed/ Unsatisfactory 		2	6	

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SOW	Requirement	Objective	Assessment Criteria	Rating	Weight	Maximum	Points
Section		Evidence		Achieved	Factor	Possible	Achieved
		Required			(1 to 3)	Points	
			PS is not provided, is				
			missing more than two				
			requested CM tasks, or more				
			than two requested CM tasks				
			are incorrectly scheduled				
9	Integrated Logistics	Project	Rated as follows:		2	6	
	Support	Schedule	3 – Excellent				
	See SOW	(with PMP)	PS includes all requested				
			ILS tasks, correctly				
			scheduled				
			2 – Good				
			PS includes all but one				
			requested ILS task or one				
			requested ILS task is				
			incorrectly scheduled				
			1 – Fair				
			PS includes all but two				
			requested ILS tasks or two				
			requested ILS tasks are				
			incorrectly scheduled				
			0 – Not Addressed/				
			Unsatisfactory				
			PS is not provided, is				
			missing more than two				
			requested ILS tasks, or more				
			than two requested ILS tasks				
			are incorrectly scheduled			00	
SOW Requirements Sub-Total							

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SRD Rated Requirements Assessment Sheet

SRD	Requirement	Objective	Assessment Criteria	Rating	Weight	Maximum	Points
Section		Evidence		Achieved	Factor	Possible	Achieved
		Required			(1 to 3)	Points	
3.1			Water Tight Pressure	Vessel			
3.1.1			Function	•			
3.1.1.1	Opening Cover Opening/Closing The WTPV Opening Cover must be easily operated (open or closed) and secured by a team of not more than two people.	Written description of type(s) of securing attachment(s) for opening cover	3 – Excellent Simple quick- release/connect securing attachment(s) are proposed 0 – Not Addressed/ Unsatisfactory Objective evidence is not provided or securing attachment(s) are not of the simple quick-release/connect		2	6	
3.1.1.2	OBM Removal/Replacement The removal/replacement of an OBM and its associated RA from the WTPV must be able to be safely and easily accomplished by a team of not more than four personnel.	- Bounding box dimensions of OBM and RA removal routes (within SBS Well) and location of bounding box relative to SBS Well datum - Written description of RA	3 – Excellent OBM and RA can be maneuvered within removal route bounding box, with a spatial margin 2 – Good OBM and RA can be maneuvered within removal route bounding box, without a spatial margin 0 – Not Addressed/ Unsatisfactory Objective evidence is not provided or OBM or RA cannot be maneuvered within removal route bounding box		2	6	

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SRD	Requirement	Objective	Assessment Criteria	Rating	Weight	Maximum	Points
Section	1	Evidence		Achieved	Factor	Possible	Achieved
Section		Required			(1 to 3)	Points	
312		Requirea	Interfaces		(1 to 5)	Tomts	
3121	External Interfaces	Written	3 – Excellent		3	9	
3.1.2.1	The WTPV must externally interface with the WTPV Mounting Arrangements.	description of method of attaching WTPV to WTPV MA	Method of attachment does not result in penetration of WTPV structure 0 – Not Addressed/ Unsatisfactory Objective evidence is not provided or method of attachment results in penetration of WTPV structure		5	9	
3.1.2.2	Internal Interfaces The WTPV must internally interface with the OBM Restraining Arrangements.	Written description of method of attaching WTPV RA to WTPV	3 – Excellent Method of attachment does not result in penetration of WTPV structure 0 – Not Addressed/ Unsatisfactory Objective evidence is not provided or method of attachment results in penetration of WTPV structure		3	9	
3.1.3			Design and Construc	tion			
3.1.3.1	Size The WTPV must be sized such that it is capable of securely stowing, without disassembly the largest of the following out board motors (OBM), or motors of a similar size, identified for intended stowage in the WTPV:	- Interior bounding box dimensions of WTPV - Written description of cross-sectional shape of interior of WTPV	 3 – Excellent Largest assembled OBM can be accommodated within interior WTPV bounding box, with a spatial margin 2 – Good Largest assembled OBM can be accommodated within interior WTPV bounding 		3	9	

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SRD	Requirement	Objective	Assessment Criteria	Rating	Weight	Maximum	Points
Section	-	Evidence		Achieved	Factor	Possible	Achieved
		Required			(1 to 3)	Points	
	 a. 35 Horsepower (HP) Multi-Fuel Engine (MFE) Evinrude and b. 25 HP Yamaha. 	- Written description of shape of WTPV ends	box, without a spatial margin 0 – Not Addressed/ Unsatisfactory Objective evidence is not provided, or largest assembled OBM cannot be accommodated within interior WTPV bounding box				
3.1.3.2	Fit	- Bounding	3 – Excellent		3	9	
	The WTPV must fit on its	box	Two exterior WTPV and				
	MA within the SBS Well (as	dimensions of	MA bounding boxes can be				
	defined by the Sketches	MA and	accommodated within SBS				
	found at Attachment 1 to	location of	Well, with a spatial margin.				
	this SRD) under the SBS	bounding box	There is space for stowage				
	Well hatches, leaving	relative to	of additional boat(s) or fuel				
	sufficient room for:	SBS Well	bladder(s) beyond minimum				
	a. A second WTPV and	datum	requirements				
	associated Mounting	- Exterior	2 - Good				
	Arrangements;	bounding box	I wo exterior w IPV and				
	b. Removal and	WTDV and	WA bounding boxes can be				
	disassambly of aither of	will value	Well with a spatial margin				
	the OBMs: and	bounding box	There is adequate space for				
	c Stowage of the two (2)	relative to	stowage of deflated boats				
	deflated six (6) or ten	SBS Well	and fuel bladders				
	(10) man small boats	datum	1 – Fair				
	and four (4) filled 18	- Bounding	Two exterior WTPV and				
	United States Gallon	box	MA bounding boxes can be				
	(USG) fuel bladders.	dimensions of	accommodated within SBS				
		deflated boats	well, without a spatial				
		and fuel	margin. There is adequate				
		bladders and	space for stowage of				

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SRD	Requirement	Objective	Assessment Criteria	Rating	Weight	Maximum	Points
Section	1	Evidence		Achieved	Factor	Possible	Achieved
20001011		Required			(1 to 3)	Points	
		location of	deflated boats and fuel		(1 to 5)	1 onnes	
		bounding	bladders				
		boxes relative	0 – Not Addressed/				
		to SBS Well	Unsatisfactory				
		datum	Objective evidence is not				
			provided, two exterior				
			WTPV and MA bounding				
			boxes cannot be				
			accommodated within SBS				
			well, or there is inadequate				
			space for stowage of				
			deflated boats and fuel				
			bladders				
3.1.3.3		1	Opening with Opening	Cover	1	1	
3.1.3.3.1	Opening and Opening	- Written	3 – Excellent		3	9	
	Cover Size	description of	Largest assembled OBM can				
	The WTPV must have a	cross-sectional	fit within interior WTPV				
	watertight and pressure tight	shape of	bounding box at open end,				
	opening with cover through	interior of	with a spatial margin				
	which either of the OBMs	WIPV	2 – Good				
	may be removed or replaced.	- Interior	Largest assembled OBM can				
		bounding box	fit within interior WIPV				
		(2D) of	bounding box at open end,				
		(2D) 01 WTDV at onen	Without a spatial margin				
		and	Unsatisfactory				
		chu	Objective evidence is not				
			provided or largest				
			assembled OBM cannot fit				
			within interior WTPV				
			bounding box at open end				
3.1.3.3.2	Opening Cover Location	Exterior	3 – Excellent		3	9	
	The location of this opening	bounding box					
	with cover must be on the	dimensions of					

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SRD	Requirement	Objective	Assessment Criteria	Rating	Weight	Maximum	Points
Section	Requirement	Evidence		Ashiovad	Factor	Dessible	Achieved
Section		Evidence		Achieved	Factor	Possible	Achieved
		Required			(1 to 3)	Points	
	end of the WTPV which	opening cover	Location of opening cover				
	faces the small boat and fuel	and location of	exterior bounding box is at				
	bladder stowage space in the	bounding box	the correct end				
	SBS well.	relative to	0 – Not Addressed/				
		SBS Well	Unsatisfactory				
		datum	Objective evidence is not				
			provided or location of				
			opening cover exterior				
			bounding box is at the				
			incorrect end				
3.1.3.3.3	Opening Cover	Written	3 – Excellent		3	9	
	Interference	description	Opening cover does not				
	When opened, the WTPV's	detailing how	impede removal of OBM				
	opening cover must not	opening cover	and associated RA in its				
	impede the removal of an	does not	opened position				
	OBM and its associated RA	impede	0 – Not Addressed/				
	from the opened WTPV.	removal of	Unsatisfactory				
		OBM and RA	Objective evidence is not				
		from WTPV	provided or opening cover				
			impedes removal of OBM				
			and associated RA in its				
			opened position		-	-	
3.1.3.3.4	Opening Cover Securing	- Exterior	3 – Excellent		2	6	
	Arrangements – Location	bounding box	Opening cover exterior				
	The WTPV Opening Cover	dimensions of	bounding box is located				
	Securing Arrangements must	opening cover	between MA bounding box				
	be located such that they are	and location of	and the working end of the				
	easily accessible from the	bounding box	SBS well				
	working end of the SBS	relative to	0 - Not Addressed/				
	well.	SBS Well	Unsatisfactory				
		datum	Objective evidence is not				
		- Bounding	provided or opening cover				
		box	exterior bounding box is not				
		dimensions of	located between MA			1	

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				Runns	in orgine	Maximum	FOILIS
Section	-	Evidence		Achieved	Factor	Possible	Achieved
		Required			(1 to 3)	Points	
		MA and	bounding box and the				
		location of	working end of the SBS well				
		bounding box					
		relative to					
		SBS Well					
21225	Opening Cover Securing	datum Written	2 Excellent		2	6	
5.1.5.5.5	A rrangements-Size	description of	S = Excellent Securing attachment(s) are		2	0	
	The WTPV Opening Cover	type(s) of	correctly sized				
	Securing Arrangements must	securing	0 - Not Addressed/				
	be sized such that they can	attachment(s)	Unsatisfactory				
	be operated by personnel	for opening	Objective evidence is not				
	with or without gloves.	cover	provided or securing				
			attachment(s) are incorrectly				
2124	Ducamus Fauclining	Witter	sized		2	0	
5.1.3.4	The WTPV must have an	- written	3 – Excellent		3	9	
	easily accessible pressure	pressure	pressure equalizing				
	equalizing capability	equalizing	capability is proposed for the				
	5	capability	WTPV				
		- Approximate	0 - Not Addressed/				
		location of	Unsatisfactory				
		pressure	Objective evidence is not				
		equalizing	provided or a difficult-to-				
		capability,	capability is proposed for the				
		SBS Well	WTPV				
		datum					
3.1.3.5	Vacuum Test Capability	- Written	3 – Excellent		3	9	
	The WTPV must have an	description of	An easily accessible vacuum				
	easily accessible vacuum	vacuum test	test capability is proposed				
	test capability.	capability	for the WTPV				
		- Approximate	U – NOT Addressed/				
3.1.3.3.5	Opening Cover Securing Arrangements-Size The WTPV Opening Cover Securing Arrangements must be sized such that they can be operated by personnel with or without gloves. Pressure Equalizing The WTPV must have an easily accessible pressure equalizing capability Vacuum Test Capability The WTPV must have an easily accessible vacuum test capability.	SBS Well datum Written description of type(s) of securing attachment(s) for opening cover - Written description of pressure equalizing capability - Approximate location of pressure equalizing capability, relative to SBS Well datum - Written description of vacuum test capability - Approximate location of	 3 - Excellent Securing attachment(s) are correctly sized 0 - Not Addressed/ Unsatisfactory Objective evidence is not provided or securing attachment(s) are incorrectly sized 3 - Excellent An easily accessible pressure equalizing capability is proposed for the WTPV 0 - Not Addressed/ Unsatisfactory Objective evidence is not provided or a difficult-to-access pressure equalizing capability is proposed for the WTPV 3 - Excellent An easily accessible vacuum test capability is proposed for the WTPV 0 - Not Addressed/ 		2 3 3	9	

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SRD	Requirement	Objective	Assessment Criteria	Rating	Weight	Maximum	Points
Section		Evidence		Achieved	Factor	Possible	Achieved
Section		Dequired		Achieved	(1 to 2)	Dointa	Achieved
		Required			(1 10 3)	Points	
		vacuum test	Objective evidence is not				
		capability,	provided or a difficult-to-				
		relative to	access vacuum test				
		SBS Well	capability is proposed for the				
		datum	WTPV		_		
3.1.3.6	Drainage	- Written	3 – Excellent		2	6	
	The WTPV must have an	description of	An easily accessible				
	easily accessible capability	drainage	drainage capability is				
	to drain any accumulated	capability	proposed, and is positioned				
	water.	- Approximate	such that it will enable				
		location of	complete drainage of				
		drainage	accumulated water				
		capability,	0 – Not Addressed/				
		relative to	Unsatisfactory				
		SBS Well	Objective evidence is not				
		datum	provided, a difficult-to-				
			access drainage capability is				
			proposed, or drainage				
			capability is positioned such				
			that it will not enable				
			complete drainage of				
			accumulated water				
	3.1 Water Tigh	t Pressure Ves	sel Requirements Sub-To	otal		111	
3.2		0	out Board Motor Restraining A	Arrangements			
3.2.2			Interfaces				-
3.2.2.2	External Interfaces to the	Written	3 – Excellent		3	9	
	OBM	description of	Interface does not require				
	The OBM RA must be	interface	modification of OBM				
	externally interfaced to the	between RA	0 – Not Addressed/				
	OBM.	and OBM	Unsatisfactory				
			Objective evidence is not				
			provided or interface				
			requires modification of				
			OBM				

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SRD	Requirement	Objective	Assessment Criteria	Rating	Weight	Maximum	Points
Section		Evidence		Achieved	Factor	Possible	Achieved
Section		Dequired		Acilie ved	(1 ± 2)	Dointa	Achieved
2222		Neitten	2. E		(1 10 5)	Foints	
3.2.2.3	Securing Arrangements	written	3 – Excellent		2	0	
	tothorad to the WTPV such	method of	vibration and poise resistant				
	that when being removed or	tothoring PA	0 Not Addressed/				
	replaced they are not lost	to WTPV	Unsatisfactory				
	during this evolution	including	Objective evidence is not				
	during this evolution.	iustification	provided or tethering system				
		for how	is not vibration and noise				
		tethering	resistant				
		system is					
		vibration and					
		noise resistant					
3.2.3		•	Design and Construct	tion		•	•
3.2.3.2	Removal/Replacement	Written	3 – Excellent		2	6	
	The OBM RA must be	description of	Requirement is satisfied				
	easily removed from or	procedure	0 – Not Addressed/				
	replaced on the OBM by not	required to	Unsatisfactory				
	more than two people.	remove and	Objective evidence is not				
		replace RA on	provided or requirement is				
		OBM	unsatisfied				
3.2.5		I	Environmental	T	1 -	1 -	1
3.2.5.3	Vibration	Written	3 – Excellent		3	9	
	The OBM RA, when	description of	Interface between RA and				
	containing either OBM, and	interface	WTPV and RA and OBM is				
	when secured in the WIPV,	between RA	vibration resistant				
	with the WTPV in the	and WTPV	0 – Not Addressed/				
	WIPV Mounting	and RA and	Unsatisfactory				
	Arrangements, must be	OBM,	Objective evidence is not				
	vibration resistant and meet	including	between D A and WTDV and				
	requirements defined at	materials to be	PA and OPM is not				
	reference 3	interface and	vibration resistant				
		instification	VIDIATION TESIStant				
		for how					

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SRD	Requirement	Objective	Assessment Criteria	Rating	Weight	Maximum	Points
Section	-	Evidence		Achieved	Factor	Possible	Achieved
		Required			(1 to 3)	Points	
		interface is			(1 to 5)	Tomes	
		vibration					
		resistant					
	3.2 Out Board Motor R	estraining Arr	angements Requirement	s Sub-Total		30	
3.3		0	WTPV Mounting Arrans	gements			•
3.3.2			Interfaces	-			
3.3.2.2	External Interface to the	Bounding box	3 – Excellent		3	9	
	Submarine	dimensions of	MA bounding box position				
	The WTPV MA must be	MA and	coincides with location of				
	externally interface with the	location of	submarine's existing WTPV				
	submarine via the	bounding box	mounting plates				
	submarine's existing WTPV	relative to	0 – Not Addressed/				
	mounting plates defined in	SBS Well	Unsatisfactory				
	the drawing at reference 1.	datum	Objective evidence is not				
			provided or MA bounding				
			box position does not				
			coincide with location of				
			submarine's existing WTPV				
			mounting plates				
3.3.3		1	Design and Construc	tion	r	- I	
3.3.3.5	WTPV/MA Interface Noise	Written	3 – Excellent		3	9	
	and Vibration	description of	Interface between MA and				
	The WTPV's Mounting	interface	WTPV is noise and vibration				
	Arrangement/WTPV	between MA	resistant				
	Interface must prevent noise	and WTPV,	0 – Not Addressed/				
	and vibration between the	including	Unsatisfactory				
	WTPV and the WTPV	materials to be	Objective evidence is not				
	Mounting Arrangements	used in	provided or interface				
	independent of speed and	interface and	between MA and WTPV is				
	depth.	justification	not noise and vibration				
		tor how	resistant				
		interface is					
		noise and			1		

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SRD	Requirement	Objective	Assessment Criteria	Rating	Weight	Maximum	Points
Section		Evidence		Achieved	Factor	Possible	Achieved
		Required			(1 to 3)	Points	
		vibration					
		resistant					
3.3 WTPV Mounting Arrangements Requirements Sub-Total 18						18	
SRD Requirements Sub-Total						159	

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Appendix 3 WTPV System Technical Compliance Matrix

Bidders must acknowledge compliance with all SRD requirements, using the matrix below.

SRD Requirements	Compliance		
	Yes	No	
3.1. Water Tight Pressure Vessel			
3.1.1 Function			
3.1.1.1 Opening Cover Opening/Closing			
3.1.1.2 OBM Removal/Replacement			
3.1.2 Interfaces			
3.1.2.1 External Interfaces			
3.1.2.2 Internal Interfaces			
3.1.3 Design and Construction			
3.1.3.1 Size			
3.1.3.2 Fit			
3.1.3.3 Opening with Opening Cover			
3.1.3.3.1 Opening and Opening Cover Size			
3.1.3.3.2 Opening Cover Location			
3.1.3.3.3 Opening Cover Interference			
3.1.3.3.4 Opening Cover Securing Arrangements-Location			
3.1.3.3.5 Opening Cover Securing Arrangements-Size			
3.1.3.4 Pressure Equalizing			
3.1.3.5 Vacuum Test Capability			
3.1.3.6 Drainage			
3.1.4 Material			
3.1.4.1 Material Safety			
3.1.4.2 Material Suitability			
3.1.4.3 Material Life			
3.1.4.4 Colour			
3.1.5 Environmental			
3.1.5.1 Temperature			
3.1.5.2 Design Pressure			
3.1.5.3 Fatigue Limits			
3.1.5.4 Blank (Not Used)			
3.1.5.5 Vacuum			
3.1.5.6 Shock			
3.1.5.7 Vibration			
3.1.6 Maintenance			
3.1.6.1 Preventive Maintenance			

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ANNEX B-Appendix 3–Technical Compliance Matrix

SRD Requirements	Yes	No
3.2 Out Board Motor Restraining Arrangements		
3.2.1 Function		
3.2.2 Interfaces		
3.2.2.1 External Interfaces to the WTPV		
3.2.2.2 External Interfaces to the OBM		
3.2.2.3 Securing Arrangements		
3.2.3 Design and Construction		
3.2.3.1 Size		
3.2.3.2 Removal/Replacement		
3.2.3.3 Noise Level Removal/Replacement OBM		
3.2.4 Material		
3.2.4.1 Material Safety		
3.2.4.2 Material Permeability		
3.2.4.3 Material Susceptibility		
3.2.4.4 Material Life		
3.2.4.5 Colour		
3.2.5 Environmental		
3.2.5.1 Operating Temperature		
3.2.5.2 Shock		
3.2.5.3 Vibration		
3.2.6 Maintenance		
3.2.6.1 Preventive Maintenance		
3.3 WTPV Mounting Arrangements		
3.3.1 Function		
3.3.2 Interfaces		
3.3.2.1 External Interface to the WTPV		
3.3.2.2 External Interface to the Submarine		
3.3.3 Design and Construction		
3.3.3.1 Size		
3.3.3.2 Blank (Not Used)		
3.3.3.3 Mounting/Dismounting		
3.3.3.4 WTPV/MA Interface Security		
3.3.3.5 WTPV/MA Interface Noise and Vibration		
3.3.4 Material		
3.3.4.1 Material Safety		
3.3.4.2 Material Suitability		
3.3.4.3 Material Life		
3.3.4.4 Colour	1	
3.3.5 Environmental	1	
3.3.5.1 Operating Temperature	1	
3.3.5.2 Shock	1	
3.3.5.3 Vibration	1	
3.3.6 Maintenance	1	
3.3.6.1 Preventive Maintenance	1	

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