ANNEX B

TECHNICAL BID EVALUATION PLAN

For The

WATERTIGHT PRESSURE VESSELS SYSTEM

PROJECT

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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.

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:

$$\textbf{Score} = \textbf{Points} * \textbf{Weight Factor}$$

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).

Table 1: Rated Requirements Rating Scale

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

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:

$$\textbf{Final Score} = \textbf{Technical Score} + \textbf{Financial Score}$$

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:

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

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:

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

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

2.2.5 Summary

Table 2 summarizes the method of evaluation for this BEP.

Table 2: Method of Evaluation Summary

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

2.3 Contractor Selection

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

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

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:

- 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.

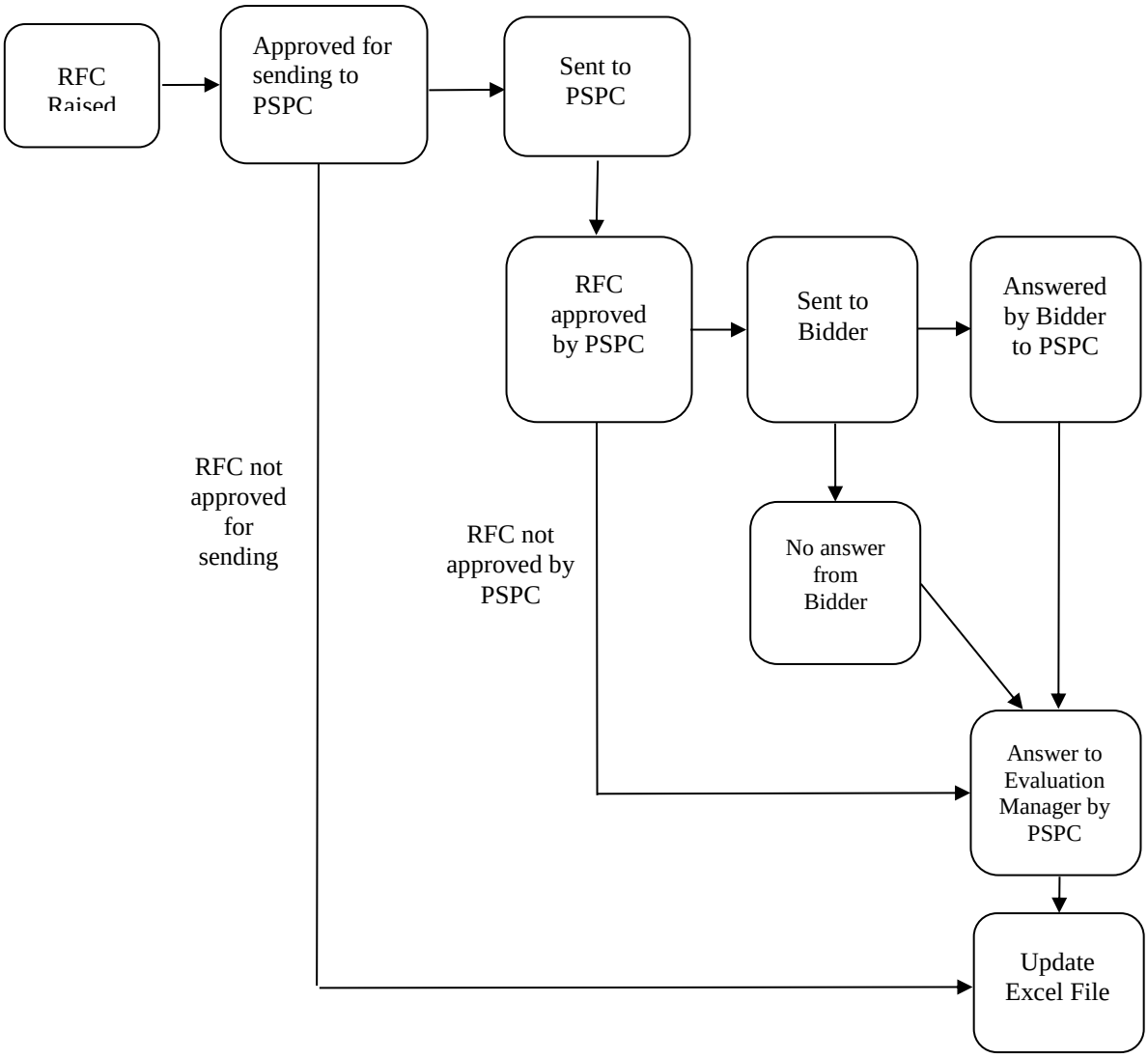

Figure 1: Request for Clarification (RFC) Process Flow Diagram

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

Appendix 1 WTPV System Mandatory Requirements

WTPV BID EVALUATION MATRIX			
Mandatory Requirements			
Requirements	**Compliant**		**Reference to applicable page and paragraph of Proposal**
	Yes	**No**	
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 2 WTPV System Rated Requirements

SOW Rated Requirements Assessment Sheet

SOW Section	Requirement	Objective Evidence Required	Assessment Criteria	Rating Achieved	Weight Factor (1 to 3)	Maximum Possible Points	Points Achieved
4.1.1	**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	

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

SOW Section	Requirement	Objective Evidence Required	Assessment Criteria	Rating Achieved	Weight Factor (1 to 3)	Maximum Possible Points	Points Achieved
			six or more Level 3 elements are missing				
4.2.2	**Project Schedule** The Contractor's PMP must reference a Project Schedule (PS). The Contractor must prepare and deliver a PS IAW CDRL item CDRL-PM-03 and DID-PM-03.	Project Schedule (with PMP)	Rated as follows: 3 – Excellent PS satisfies all requirements 2 – Good PS satisfies all requirements, however one discreet 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 are missing or are incorrectly scheduled		3	9	
4.3.1	**Risk Register** The Contractor must prepare and deliver a Risk Register (RR) IAW CDRL item CDRL-PM-04 and DID-PM-04.	Risk Register (with PMP)	Rated as follows: 3 – Excellent RR includes minimum content 0 – Not Addressed/ Unsatisfactory RR is not provided or does not include minimum content		1	3	

SOW Section	Requirement	Objective Evidence Required	Assessment Criteria	Rating Achieved	Weight Factor (1 to 3)	Maximum Possible Points	Points Achieved
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	

SOW Section	Requirement	Objective Evidence Required	Assessment Criteria	Rating Achieved	Weight Factor (1 to 3)	Maximum Possible Points	Points Achieved
			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** See SOW	Project Schedule (with PMP)	Rated as follows: 3 – Excellent 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		2	6	

SOW Section	Requirement	Objective Evidence Required	Assessment Criteria	Rating Achieved	Weight Factor (1 to 3)	Maximum Possible Points	Points Achieved
			PS includes all but two 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 incorrectly scheduled				
5.2.7	**First Article System Test** See SOW	Project Schedule (with PMP)	Rated as follows: 3 – Excellent PS includes all requested 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 0 – Not Addressed/ Unsatisfactory		2	6	

SOW Section	Requirement	Objective Evidence Required	Assessment Criteria	Rating Achieved	Weight Factor (1 to 3)	Maximum Possible Points	Points Achieved
			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 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	

SOW Section	Requirement	Objective Evidence Required	Assessment Criteria	Rating Achieved	Weight Factor (1 to 3)	Maximum Possible Points	Points Achieved
			than five years experience managing production work of a similar nature				
6.2	**Production Tasks** See SOW	Project Schedule (with PMP)	Rated as follows: 3 – Excellent 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 1 – Fair PS includes all but two requested production tasks or two requested production tasks are incorrectly scheduled 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		2	6	
7.2	**Quality System** See SOW	Project Schedule (with PMP)	Rated as follows: 3 – Excellent PS includes all requested QA tasks, correctly scheduled 2 – Good		2	6	

SOW Section	Requirement	Objective Evidence Required	Assessment Criteria	Rating Achieved	Weight Factor (1 to 3)	Maximum Possible Points	Points Achieved
			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 Management** See SOW	Project Schedule (with PMP)	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	

SOW Section	Requirement	Objective Evidence Required	Assessment Criteria	Rating Achieved	Weight Factor (1 to 3)	Maximum Possible Points	Points Achieved
			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 Support** See SOW	Project Schedule (with PMP)	Rated as follows: 3 – Excellent 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		2	6	
SOW Requirements Sub-Total						**90**	

SRD Rated Requirements Assessment Sheet

SRD Section	Requirement	Objective Evidence Required	Assessment Criteria	Rating Achieved	Weight Factor (1 to 3)	Maximum Possible Points	Points Achieved
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 type		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	

SRD Section	Requirement	Objective Evidence Required	Assessment Criteria	Rating Achieved	Weight Factor (1 to 3)	Maximum Possible Points	Points Achieved
3.1.2	**Interfaces**						
3.1.2.1	**External Interfaces** The WTPV must externally interface with the WTPV Mounting Arrangements.	Written description of method of attaching WTPV to WTPV MA	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	
3.1.2.2	**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 Construction**						
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	

SRD Section	Requirement	Objective Evidence Required	Assessment Criteria	Rating Achieved	Weight Factor (1 to 3)	Maximum Possible Points	Points Achieved
	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** The WTPV must fit on its MA within the SBS Well (as defined by the Sketches found at Attachment 1 to this SRD) under the SBS Well hatches, leaving sufficient room for: a. A second WTPV and associated Mounting Arrangements; b. Removal and replacement, without disassembly of either of the OBMs; and c. Stowage of the two (2) deflated six (6) or ten (10) man small boats and four (4) filled 18 United States Gallon (USG) fuel bladders.	- Bounding box dimensions of MA and location of bounding box relative to SBS Well datum - Exterior bounding box dimensions of WTPV and location of bounding box relative to SBS Well datum - Bounding box dimensions of deflated boats and fuel bladders and	3 – Excellent Two exterior WTPV and MA bounding boxes can be accommodated within SBS Well, with a spatial margin. There is space for stowage of additional boat(s) or fuel bladder(s) beyond minimum requirements 2 - Good Two exterior WTPV and MA bounding boxes can be accommodated within SBS Well, with a spatial margin. There is adequate space for stowage of deflated boats and fuel bladders 1 – Fair Two exterior WTPV and MA bounding boxes can be accommodated within SBS well, without a spatial margin. There is adequate space for stowage of		3	9	

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

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

SRD Section	Requirement	Objective Evidence Required	Assessment Criteria	Rating Achieved	Weight Factor (1 to 3)	Maximum Possible Points	Points Achieved
		MA and location of bounding box relative to SBS Well datum	bounding box and the working end of the SBS well				
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.	Written description of type(s) of securing attachment(s) for opening cover	3 – Excellent Securing attachment(s) are correctly sized 0 – Not Addressed/ Unsatisfactory Objective evidence is not provided or securing attachment(s) are incorrectly sized		2	6	
3.1.3.4	**Pressure Equalizing** The WTPV must have an easily accessible pressure equalizing capability	- Written description of pressure equalizing capability - Approximate location of pressure equalizing capability, relative to SBS Well datum	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	9	
3.1.3.5	**Vacuum Test Capability** The WTPV must have an easily accessible vacuum test capability.	- Written description of vacuum test capability - Approximate location of	3 – Excellent An easily accessible vacuum test capability is proposed for the WTPV 0 – Not Addressed/ Unsatisfactory		3	9	

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

SRD Section	Requirement	Objective Evidence Required	Assessment Criteria	Rating Achieved	Weight Factor (1 to 3)	Maximum Possible Points	Points Achieved
3.2.2.3	**Securing Arrangements** The OBM RA must be tethered to the WTPV such that when being removed or replaced, they are not lost during this evolution.	Written description of method of tethering RA to WTPV, including justification for how tethering system is vibration and noise resistant	3 – Excellent Tethering system is vibration and noise resistant 0 – Not Addressed/ Unsatisfactory Objective evidence is not provided or tethering system is not vibration and noise resistant		2	6	
3.2.3	**Design and Construction**						
3.2.3.2	**Removal/Replacement** The OBM RA must be easily removed from or replaced on the OBM by not more than two people.	Written description of procedure required to remove and replace RA on OBM	3 – Excellent Requirement is satisfied 0 – Not Addressed/ Unsatisfactory Objective evidence is not provided or requirement is unsatisfied		2	6	
3.2.5	**Environmental**						
3.2.5.3	**Vibration** The OBM RA, when containing either OBM, and when secured in the WTPV, with the WTPV in the WTPV Mounting Arrangements, must be vibration resistant and meet the vibration resistance requirements defined at reference 3.	Written description of interface between RA and WTPV and RA and OBM, including materials to be used in interface and justification for how	3 – Excellent Interface between RA and WTPV and RA and OBM is vibration resistant 0 – Not Addressed/ Unsatisfactory Objective evidence is not provided or interface between RA and WTPV and RA and OBM is not vibration resistant		3	9	

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

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

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		

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		
3.3.5 Environmental		
3.3.5.1 Operating Temperature		
3.3.5.2 Shock		
3.3.5.3 Vibration		
3.3.6 Maintenance		
3.3.6.1 Preventive Maintenance		