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**V8W 3X4**  
**Bid Fax: (250) 363-3344**

## **SOLICITATION AMENDMENT**

## **MODIFICATION DE L'INVITATION**

The referenced document is hereby revised; unless otherwise indicated, all other terms and conditions of the Solicitation remain the same.

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'invitation demeurent les mêmes.

**Comments - Commentaires**

**Vendor/Firm Name and Address**  
**Raison sociale et adresse du**  
**fournisseur/de l'entrepreneur**

**Issuing Office - Bureau de distribution**  
Public Works and Government Services Canada -  
Pacific Region  
401 - 1230 Government Street  
Victoria, B. C.  
V8W 3X4

<b>Title - Sujet</b> CCGS S.W. LAURIER - GEN SETS	
<b>Solicitation No. - N° de l'invitation</b> F1782-15C752/A	<b>Amendment No. - N° modif.</b> 008
<b>Client Reference No. - N° de référence du client</b> F1782-15C752	<b>Date</b> 2015-11-04
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$XLV-174-6814	
<b>File No. - N° de dossier</b> XLV-5-38103 (174)	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2015-11-10</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Pacific Standard Time PST
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input checked="" type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Anstey, Gregory	<b>Buyer Id - Id de l'acheteur</b> xlv174
<b>Telephone No. - N° de téléphone</b> (250) 363-0088 ( )	<b>FAX No. - N° de FAX</b> (250) 363-3960
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b>	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

<b>Delivery Required - Livraison exigée</b>	<b>Delivery Offered - Livraison proposée</b>
<b>Vendor/Firm Name and Address</b> <b>Raison sociale et adresse du fournisseur/de l'entrepreneur</b>	
<b>Telephone No. - N° de téléphone</b> <b>Facsimile No. - N° de télécopieur</b>	
<b>Name and title of person authorized to sign on behalf of Vendor/Firm</b> <b>(type or print)</b> <b>Nom et titre de la personne autorisée à signer au nom du fournisseur/</b> <b>de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>	
<b>Signature</b>	<b>Date</b>

The purpose of this amendment is to incorporate additional Questions and Answers and to revise the Annex J, Evaluation Plan, all as included below.

Item	Reference	Solicitation ref.	Specification (SOW)	Bidders questions	Canada answers	Reply Date
1	Solicitation	Annex A	Section 7.1	Will a genset with a prime rating of 568 ekw (625 ekw @ 10% overload) be acceptable?	No, a rating of 568 ekw at 100%load is not acceptable. The minimum acceptable rating is 575 ekW at 100% load. The desired (optimum) genset rating is between 600 ekW and 650 ekW at 100% load.	
2				Can a 730 ekw genset be used if it is the same physical size and displacement as a 700 ekw genset?	Yes, a 730 ekW genset is acceptable.	2015.10.09
3	Solicitation	Annex A	Section 9.1	<p>Ref : " and at a minimum the genset must also be tested at an approved Class Society (per list in paragraph 3.3) facility. "</p> <p>In the absence of an approved Class Society testing facility in Canada, this requirement cannot be met.</p> <p>Considering the following scenario:</p> <ul style="list-style-type: none"> <li>- genset built from an existing commercial design using class type approved/certified components</li> <li>- genset final assembly and combined testing at a ISO9001 facility in Canada</li> <li>- class certification of the generator set through a Design Assessment and test witnessing by an approved Class Society (as well as other witnesses as contractually required)</li> </ul> <p>Will Canada consider removing the following section from requirement #9.1?</p> <p>" ...and at a minimum the genset must also be tested at an approved Class Society (per list in paragraph 3.3) facility. "</p>	<p>The genset must not be tested at a Class Society facility.</p> <p>Class certification of the generator set, by an approved Class Society (per list in paragraph 3.4) must be obtained through a Design Assessment and test witnessing by an approved Class Society inspector (as well as other witnesses as contractually required).</p>	2015.10.19

Item	Reference	Solicitation n ref.	Specification n (SOW	Bidders questions	Canada answers	Reply Date
4	Solicitation	ITT	Section 2.2	The solicitation closes at 2:00 pm on 2015.10.22. The closing date of this solicitation is concurrent with the closing date of solicitation F7049-150105/A on which we are currently actively working. In order to submit a quality proposal to Canada, we request a one calendar week extension to the solicitation period.	A one week extension to 02:00 pm on 2015.10.29 is acceptable to Canada.	2015.10.19
5				The proposed generator set is not off the shelf and will require 7 months production time and up to 6 weeks shipping time after order. Can the latest delivery time be extended to September 15, 2016 with a progress payment clause?	The latest acceptable delivery date is September 15, 2016	2015.10.19
6	Solicitation	ITT	Section 10.2	List of current retail price, lead-time, and part numbers of recommended consumable spares for 2 years and recommended spares for 5 year life cycle maintenance. Please specify the number of hours per year to be used in order to come up with the maintenance schedule-driven list of parts for the specified periods.	The bids must be based on 2,000 running hours per year.	2015.10.22
7	Solicitation			Should SACC clause C3010T be included to provide bidders the opportunity to mitigate against currency exchange rate fluctuation?	Yes. Insert new Article as follows: 3-1.2(1) Exchange Rate Fluctuation C3010T 2014-11-27, Exchange Rate Fluctuation Risk Mitigation	2015.10.22
8	Solicitation			Article 2-1 of the Solicitation refers to an out of date SACC Clause. Please advise?	Revise Article 2-1, in part, to read as follows: “ ... The 2003 (2015-07-03) Standard Instructions...”	
9	Solicitation			Article 6-3.1 of the Solicitation refers to an out of date SACC Clause. Please advise?	Revise Article 6-3.1 to read as follows: 6-3.1 General Conditions	

					2010A 2015-09-03, General Conditions - Medium Complexity - Goods, apply to and form part of the Contract.	
10	Solicitation			Paragraph (1) of Section 9 (Warranty) of the 2010A, General Conditions, does not agree with paragraph 12.1 (Warranty) of the Statement of work. Please clarify?	<p>Paragraph (1) of Section 9 (Warranty) of the 2010A, General Conditions, is hereby revised to read as follows:</p> <p>1. Despite inspection and acceptance of the Work by or on behalf of Canada and without restricting any provisions of the Contract or any condition, warranty or provision imposed by law, the Contractor, if requested by Canada to do so, must replace, repair or correct, at its own option and expense any work that becomes defective or fails to conform to the requirements of the Contract, where applicable. The warranty period will be 12 months after delivery and acceptance of the Work or the length of the Contractor's or as stated at paragraph 12.1 (Warranty) of the Statement of Work or manufacturer's standard warranty period, whichever is longer.</p>	
11	Solicitation	ITT		There is no statement regarding limitation of contractor liability. Please advise?	SACC Clause N0001C will be included in any eventual contract with the stated value being the Contract Price.	2015.10.27
12	Solicitation	ITT	Section 3.2	LO-REZ mounts are not used on Wärtsilä generating sets. Is it acceptable to use Wärtsilä standard engine mount, type RD-314 which fulfils also requirement stated in 3.3	Yes the Wärtsilä type RD-314 mount is acceptable.	2015.10.27
13	Solicitation	ITT	Section 3.13	If the after cooler will be fresh water cooled is it acceptable if the jacket water heat	Yes a separately mounted jacket water heat exchanger is acceptable. The	2015.10.27

				exchanger and expansion tank are not built on the engine?		expansion tank can be supplied by others. <u>Clarification:</u> Can be fabricated by others but must be supplied – see Q 26.	2015.11.03
14	Solicitation	ITT	Section 3.16	Wärtsilä 4L20 engine has no duplex spin-on cartridge type full flow filter. It is acceptable to have lubricating oil filter built on engine (type Boll & Kirch) instead of duplex spin-on cartridge type full flow filter?		<u>See also Q 28</u> Yes, a Boll & Kirch type oil filter would be acceptable.	2015.11.03 2015.10.27
15	Solicitation	ITT	Section 3.18	The W4L20 engine has no system to dissipate engine generated oil fumes. Is it acceptable to leave this out from the proposal?		Yes, but provision must be made to allow connection at the shipyard of a crankcase vent pipe to the stack.  <u>See also Q 28</u>	2015.10.27 2015.11.03 2015.10.27
16	Solicitation	ITT	Section 3.19	A FLOCS system is not possible to install under the oil sump (pan) due to construction. The oil drain can be done through the separator connection located at free end of the generating set. Is it acceptable to leave the FLOCS out from the scope of supply ?		Yes, this is acceptable	
17	Solicitation	ITT	Section 3.20	TCMS is not known by Wärtsilä. The insulations on engine fulfil International Convention for the Safety of Life at Sea (SOLAS). Is it acceptable to have the insulations meeting the requirements of SOLAS only?		Yes, insulation to SOLAS requirements will be accepted by TCM.	2015.10.27
18	Solicitation	ITT	Section 5.2	5.2.1. Engine mounted sea water heat exchanger is not applicable for W4L20.  5.2.4 Duplex filters not applicable for W4L20 (ref. also 3.16.). 5.2.8 Oil pan with drain in the bottom is not applicable for W4L20 (ref. also 3.19). 5.2.12 Fuel priming pump is not applicable for W4L20 5.2.14 electronically controlled unit injection system not applicable for W4L20		Yes, deletion of items: 5.2.1, <u>Clarification:</u> The non-engine mounted heat exchanger must be supplied (ref Q13) 5.2.4, <u>Clarification:</u> Must be supplied for high speed engines 5.2.8, <u>Clarification:</u> It must be possible to drain the sump completely. 5.2.12, <u>Clarification:</u> Fuel priming pump must be included on high speed engines 5.2.14 .. will be acceptable to leave out of the	2015.10.27       2015.11.03

					Are above mentioned items (5.2.1 – 5.2.14) acceptable to leave out from the scope of supply?	scope of supply. <b>See also Q 28</b>	<b>2015.11.03</b>
19	Solicitation	ITT		Section 5.2.20	Pre-start heater will be supplied separately, not mounted on engine. Is it acceptable to supply pre-start heater separate and also another brand than Hot Start?	Yes, a separately supplied pre-start heater of a different brand to Hot Start will be acceptable.  <b>See also Q 28</b>	2015.10.27
20	Solicitation	ITT		Section 5.3.6	A manual fuel priming pump is not applicable for W4L20. Can this be left out?	Yes, the manual fuel priming pump can be left out.  <b>See also Q 28</b>	<b>2015.11.03</b> 2015.10.27
21	Solicitation	ITT		Section 5.3.9	Jacket water expansion tank is not built on engine. Can this be left out from scope of supply?	Yes, the expansion tank can be left out of the scope of supply.	2015.10.27 2015.10.30
22	Solicitation	ITT		Section 10.3.11	Results of torsional vibration analysis are available 4 weeks after the genset order. Is this acceptable?	Correction: See Q 26 Yes, delivery of results 4 weeks after genset order is acceptable.	2015.10.27
23	Solicitation	ITT		Section 10.3.13	Class approval certificates are available 3-4 weeks after the genset factory acceptance test. Is this acceptable?	Yes, delivery of certificates 3 to 4 weeks after the genset factory acceptance test is acceptable.	2015.10.27
24	Solicitation	ITT		Section 3.2	With reference to Q 12 can the engine manufactures standard vibration isolators (Vulkan) sized for the package be used instead of Lo Rez isolators?	Details of the RD-314 mount were provided.  Vulkan <b>mounts</b> may be acceptable; the bidder must provide the model number and details demonstrating that the technical requirements of section 3.2 and 3.3 are met.  Bidders may be requested to provide calculations demonstrating that the vibration characteristics of the mounting system will be acceptable in service.	2015.10.30
25	Solicitation	ITT		Section 3.13	With reference to Q13 is it the engine manufactures responsibility to quote and supply the remote mount heat exchanger in	Yes, if the engine model does not have an integral heat exchanger the remote heat exchanger must be sized and	2015.10.30

26	Solicitation	ITT	Section 5.3.9	With reference to Q13 and Q21 Is it the engine manufactures responsibility to quote and supply the remote mount header tank in this RFP?	this RFP?	<p>supplied by the engine manufacturer. The heat exchanger must be rated for sea water on the raw water side.</p> <p>See also Q 28</p> <p>For clarification if a remote mount header tank is required it must be included in the bid. The tank could be built locally to the engine manufacturers specifications.</p> <p>The tank would be mounted 20.3" (619 cm) above the deck. The maximum dimensions must be within:</p> <ul style="list-style-type: none"> <li>• 36" wide (fore and aft) = 91 cm</li> <li>• x 60" tall = 152 cm</li> <li>• x 30" deep (port to stbd) = 76 cm</li> </ul>	2015.11.03
27	Solicitation	Evaluation	Section 5.2.14	Is an engine without Electronically controlled Unit Injection acceptable if it meets all Class and emission requirements?	Is an engine without Electronically controlled Unit Injection can be acceptable if it meets all Class and emission requirements.	<p>Yes an engine without Electronically controlled Unit Injection can be acceptable if it meets all Class and emission requirements.</p> <p>See also Q 28</p>	2015.11.04
28	Solicitation	Evaluation		Referring to Q&A 13, 15, 18, 19, 20, 25 & 27: Several technical responses have reduced the mandatory scope of supply, or altered components from mandatory integral to acceptable separate supply, which may affect the functionality and will impact the eventual installation costs. Will the evaluation plan take into consideration these changes?	Where components originally requested to have been supplied as integral components, are offered by a bidder as separate supply, such separate supply is acceptable as per the referenced Q&A, provided however that evaluators may, at their sole discretion, reduce the technical points awarded in consideration of the probable additional installation costs which will accrue or the in consideration of any loss of functionality which may be determined by the evaluators.	<p>See also Q&amp;A 29</p>	2015.11.03



28	Solicitation	Evaluation		Referring to Q&A 28: Has the Evaluation Plan been revised?	Yes. See Grid 14A, 14B and 21 of the revised Annex J	2015.11.03
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## ANNEX “J” - BEST VALUE DETERMINATION

### J1 Best Value Selection Method

The Bidder's Price score represents the weighted relative position of the Bidder's Total Price for Evaluation as compared to the lowest Bidder's Total Price for Evaluation received for this solicitation.

The Bidder's Technical score represents the weighted relative position of the Bidder's technical points awarded, in respect to the maximum technical points available.

The best value score is the sum of the Bidder's price score and the Bidder's technical score.

### J2 Best value selection Calculations

The following is the best value selection assessment criteria and formula that will be utilized by Canada in the evaluation of responses to this RFP. The best value selection assessment criteria and formula is provided below:

#### J2.1 Criteria:

The following are the selection criteria.

- (a) Maximum Technical points
- (b) Total Price for Evaluation: as submitted by the Bidder
- (c) Ratio of factor for best value formula: technical score equals 60%: price equals 40%

#### J2.2 Formula

The following is the formula to determine the Value score that will be used for the final selection of the successful Bidder that has the Best Value Score. (See below for a sample best value determination) The Bidder's Price score is equal to ratio of the lowest Bid Total Price for Evaluation divided by the Bidder's Total Price for Evaluation that is then multiplied by 4000 (the weighting factor).

The Bidder's Technical score equals the Bidder's technical points divided by the total points available and then multiplied by 6000 (the weighting factor). The Bidder's Value score equals the sum of the Bidder's price score and the Bidder's technical score.

### J3 Example Best Value Determination

Based on Highest Combined Rating Technical Merit (60 percent) and Total Price for Evaluation (40 percent)

Bidder	Bidder 1	Bidder 2	Bidder 3
Technical points	4000	4500	3000
Total Evaluated Price	240 k	170 k	160 k

#### Bidder 1:

$$\begin{aligned}
 \text{Technical Score} &= \mathbf{4000} / 5000 \times 6000 = 4800 \\
 \text{Price Score} &= 160 / \mathbf{240} \times 4000 = 2667 \\
 \text{Value Score} &= 4800 + 2667 = \mathbf{7467}
 \end{aligned}$$

#### Bidder 2:

$$\begin{aligned}
 \text{Technical Score} &= \mathbf{4500} / 5000 \times 6000 = 5400 \\
 \text{Price Score} &= 160 / \mathbf{170} \times 4000 = 3765 \\
 \text{Value Score} &= 5400 + 3765 = \mathbf{9165}
 \end{aligned}$$

#### Bidder 3:

$$\begin{aligned}
 \text{Technical Score} &= \mathbf{3000} / 5000 \times 6000 = 3600 \\
 \text{Price Score} &= 160 / \mathbf{160} \times 4000 = 4000 \\
 \text{Value Score} &= 3600 + 4000 = \mathbf{7600}
 \end{aligned}$$

Example Bidder 3: Technical Score is below 70 per cent.

Example Bidder 2: Best Value

### J4 EVALUATION GRID

**\*\*NOTE \*\***

- 1) Bidders must demonstrate that the proposed Gensets and its equipment meet all the requirements of the RFP, by providing the supporting documentary evidence.
- 2) Bidders' technical proposal must be clear, logical, well organized, complete, easy to follow and professionally produced, must be numbered and follow the sequence of the evaluation elements specified in the RFP.

Grid 1	1.0 Contractors Proposal	(max possible points 100) Reasons for Point Rating	Points Scored
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100 max	Contractors proposal includes all items in the specification.		
90 max	Contractors proposal includes all items in the specification save for one to two minor items.		
80 max	Contractors proposal includes all items in the specification save for three to five minor items.		
50 max	Contractors proposal includes all items in the specification save for six to ten minor items		
0	Contractor's proposal does not adequately address items as stated in the specification.		

Grid 2	3.4 Class Approved	(max possible points 10) Reasons for Point Rating	Points Scored
10 max	ABS or DNV-GL or LR or BV		
N/C	Contractor's proposal does not adequately address items as stated in the specification.		
<p>Proposal must indicate what classification society will approve the genset.</p> <p>N/C (Non-Compliant): Bids will be declared Non-responsive.</p>			

Grid 3	3.7 Exhaust flow rate	(max possible points 10) Reasons for Point Rating	Points Scored
10 max	< 2.5 m3/s		
N/C	Contractor's proposal does not adequately address items as stated in the specification.		
<p>Proposal must provide exhaust flow rate information.</p> <p>N/C (Non-Compliant): Bids will be declared Non-responsive.</p>			

Grid 4	3.9 Re-coupling warrantee	(max possible points 30) Reasons for Point Rating	Points Scored
30 max	Warrantee valid after recoupling		
0 max	Warrantee for items related to coupling misalignment not valid after recoupling		
<p>Proposal must provide warrantee details about reassembly.</p>			

Grid 5	3.10 ambient temp	(max possible points 10) Reasons for Point Rating	Points Scored
10 max	Engine rated for continuous full rated load at 50 C ambient temp.		
N/C	Contractor's proposal does not adequately address items as stated in the specification.		
<p>Proposal must provide ambient operating temperature information. N/C (Non-Compliant): Bids will be declared Non-responsive.</p>			

Grid 6	3.11 Services, parts facility and representative	(max possible points 400) Reasons for Point Rating	Points Scored
400 max	2 Located in coastal areas of BC		
300 max	2 Located within the North American Pacific Time zone		
200 max	2 Located within the North American Mountain Time zone or Pacific Time zone		
100 max	2 Located within the North American Central Mountain or Pacific Time zone		
10 max	2 Located within the North American Eastern, Central, or Mountain, or Pacific Time zone		
N/C	Contractor's proposal does not adequately address items as stated in the specification.		
Proposal must provide detail of available services offered for the proposed genset, identify the locations of this facility unit, parts facility and key personnel. N/C (Non-Compliant): Bids will be declared Non-responsive.			

Grid 7	3.13 The diesel engine must designed for operation on MGO. The engines must be fresh water cooled with the jacket water heat exchanger and expansion tank mounted on the engine. Aftercoolers or intercoolers may be raw water cooled; if so they must be designed and built for salt water service. Starting must be with compressed air, with local control at the generator set and remote control from the machinery control room (MCR).	(max possible points 10) Reasons for Point Rating	Points Scored
10 max	Contractor's proposal adequately addresses items as stated in the specification.		
N/C	Contractor's proposal does not adequately address items as stated in the specification.		
Proposal must provide arrangement and fuel details. N/C (Non-Compliant): Bids will be declared Non-responsive.			

Grid 8	3.15 Bulk Lube oil	(max possible points 100) Reasons for Point Rating	Points Scored
100 max	Engine Capable of utilizing a bulk lubricating oil		
0 max	Engine oil only available from OEM		
Proposal must provide lube oil specifications.			

Grid 9	3.21 certified IMO-II or better.	(max possible points 100) Reasons for Point Rating	
100 max	Certified IMO-III		

50 max	Certified IMO-II		
N/C	Not Certified IMO-II or IMO-III or IMO-IV		
Proposal must provide IMO certification information. N/C (Non-Compliant): Bids will be declared Non-responsive.			

Grid 10	3.22 mechanically generated sound	(max possible points 250) Reasons for Point Rating	Points Scored
25 max	122 to 125 dB(A)		
50 max	119 to 122 dB(A)		
75 max	116 to 119 dB(A)		
100 max	113 to 116 dB(A)		
125 max	110 to 113 dB(A)		
150 max	107 to 110 dB(A)		
175 max	104 to 107 dB(A)		
200 max	101 to 104 dB(A)		
225 max	98 to 101 dB(A)		
250 max	95 to 98 dB(A)		
Proposal must provide mechanically generated sound information.			

Grid 11	4.0 Genset dimensions	(max possible points 100) Reasons for Point Rating	
N/C	Height >2.74m; Length >4.87m; or Width >1.82m		
50	Height 2.74m to 1.8m; Length < 4.87m; and Width<1.82m		
100	Height <1.8m; Length < 4.87m; and Width<1.4m		
N/C	Contractor's proposal does not adequately address items as stated in the specification.		
Proposal must provide drawings of the genset unit (both the main and emergency) showing clearly the genset dimension in length width and high overall. N/C (Non-Compliant): Bids will be declared Non-responsive.			

Grid 12	4.2 exhaust outlet	(max possible points 100) Reasons for Point Rating	Points Scored
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100 max	Arrangement for horizontal exhaust outlet available and will be provided within the space set out in 4.1.		
50 max	Arrangement for a horizontal exhaust outlet is possible within the space set out in 4.1.		
N/C	Exhaust cannot be directed horizontally within the space set out in 4.1		
<p>Proposal must provide drawings of the exhaust outlet.</p> <p>N/C (Non-Compliant): Bids will be declared Non-responsive.</p>			

Grid 13	4.3 cylinder head and liners removable	(max possible points 10) Reasons for Point Rating	Points Scored
10 max	Heads and liners can be removed within the space set out in 4.1.		
N/C	Heads and liners cannot be removed within the space set out in 4.1		
<p>Proposal must provide drawings of heads and liners.</p> <p>N/C (Non-Compliant): Bids will be declared Non-responsive.</p>			

Grid 14	5.1 cooling treatment	(max possible points 100) Reasons for Point Rating	Points Scored
100 max	Maxigard cooling treatment under warrantee on raw water and jacket water side.		
90 max	Maxigard cooling treatment under warrantee on raw water side.		
0 max	Maxigard cooling treatment not under warrantee		
<p>Proposal must state what (if any) chemical interaction maxigard will have on the jacket water cooler.</p>			

Grid 14 A	5.2 and 5.3 Mandatory items that are not applicable for Medium Speed Engines	(max possible points 50) Reasons for Point Rating	Points Scored
25 max	5.2.1 Sea water heat exchanger is engine mounted.		
5 max	5.2.1 Heat Exchanger separately mounted. Must be an engine OEM design and dimensions must be provided.		
25 max	5.3.9 Jacket Water Tank is fitted on the engine.		
5 max	Jacket Water Tank separately mounted. Details of tank must be supplied with bid. The tank is part of the scope of supply.		
N/C	Contractor's proposal does not adequately address items as stated in the specification.		
<p>5.2 - The items listed in section 5.2 and 5.3 are mandatory for high speed engines excluding 5.2.14.</p> <p>N/C (Non-Compliant): Bids will be declared Non-responsive.</p>			

Grid 14 B	5.2 Engines without electronically controlled unit injection system	(max possible points 50) Reasons for Point Rating	Points Scored
25 max	5.2.14 The engine has Electronically controlled Unit Injection		
0 max	5.2.14 An engine without Electronically controlled Unit Injection is acceptable but must meet all Class requirements and must have double wall fuel lines.		
N/C	Contractor's proposal does not adequately address items as stated in the specification.		
5.2 - The other items listed in section 5.2 are mandatory for high speed engines. N/C (Non-Compliant): Bids will be declared Non-responsive.			

Grid 15	5.2.19 Starting	(max possible points 200) Reasons for Point Rating	Points Scored
200 max	Turbotwin turbine air starter requiring 9.56 Bar or less		
100 max	Turbine type air starter requiring 9.56 Bar or less		
Proposal must provide air starter information			

Grid 16	5.2.20 Pre-start heater	(max possible points 100) Reasons for Point Rating	Points Scored
100 max	Kim Hot Start Pre-start heater or constant block heater for approximately 600 V with 3 phases		
50 max	approximately 600 V with 3 phases heater		
Proposal must show the pre heater information			

Grid 17	6.1.1.4 Engine running monitoring	(max possible points 100) Reasons for Point Rating	Points Scored
100 max	Service meter (define as digital meter showing future service of the units)		
20 max	Analog hour meter		
Proposal must provide type and model.			

Grid 18	6.2 Alarms and shutdowns for marine class approval	(max possible points 10) Reasons for Point Rating	Points Scored
10 max	Contractor's proposal adequately addresses items as stated in the specification.		
N/C	Contractor's proposal does not adequately address items as stated in the specification.		



Proposal must provide a list of alarms and shutdowns to be provided.

Proposal must show how this list meets marine class approval.

N/C (Non-Compliant): Bids will be declared Non-responsive.

Grid 19	6.3.7 to 6.3.1.19 Data link details	(max possible points 200) Reasons for Point Rating	Points Scored
200 max	All items: 6.3.7 to 6.3.19		
100 max	90% of items		
50 max	50% of items		
25 max	25% of items		
Proposal must provide details of remote connection data link			

Grid 20	6.4 Panel Ingress Protection Rating	(max possible points 10) Reasons for Point Rating	Points Scored
10 max	Protection higher than IP 23		
0 max	Protection to IP 23		
Proposal must define clearly in their proposal the panel protection integrity or give and equivalent to IP protection.			

Grid 21	7.1 Generator electrical power	(max possible points 1000) Reasons for Point Rating	Points Scored
600 max	Genset proposed from 575 ekW to 600 ekW		
900 max	Genset proposed from 600 ekW to 625 ekW		
900 max	Genset proposed from 625 ekW to 650 ekW		
800 max	Genset proposed from 650 ekW to 675 ekW		
700 max	Genset proposed from 675 ekW to 730 ekW		
N/C	Contractor's proposal does not adequately address items as stated in the specification.		
Proposal must provide and define clearly in their proposal the electrical generator ekW. N/C (Non-Compliant): Bids will be declared Non-responsive.			

Grid 22	7.2.1 Short Circuit capacity	(max possible points 100) Reasons for Point Rating	Points Scored
100 max	Short circuit capacity from 11 to 15 sec.		
50 max	Short circuit capacity lower than 11 sec.		

N/C	Contractor's proposal does not adequately address items as stated in the specification.		
<p>Proposal must proof of short circuit capacity by providing either supporting calculation or OEM serial built information.</p> <p>N/C (Non-Compliant): Bids will be declared Non-responsive.</p>			

Grid 23	7.2.2 110% rated eKW overload for 1 hour	(max possible points 10) Reasons for Point Rating	Points Scored
10 max	Contractor's proposal adequately addresses items as stated in the specification.		
N/C	Contractor's proposal does not adequately address items as stated in the specification.		
<p>Proposal must provide details of overload testing.</p> <p>N/C (Non-Compliant): Bids will be declared Non-responsive.</p>			

Grid 24	7.3 600V AC 3 phase	(max possible points 10) Reasons for Point Rating	Points Scored
10 max	Contractor's proposal adequately addresses items as stated in the specification.		
N/C	Contractor's proposal does not adequately address items as stated in the specification.		
<p>Proposal must provide details of generator voltage and number of phases.</p> <p>Proposal must provide details of excitation and winding pitch.</p> <p>N/C (Non-Compliant): Bids will be declared Non-responsive.</p>			

Grid 25	7.4.9 Alternator efficiency	(max possible points 100) Reasons for Point Rating	Points Scored
100 max	From 92.3% to 96.8%		
50 max	From 88% to 92.2 %		
N/C	Contractor's proposal does not adequately address items as stated in the specification.		
<p>Proposal must provide the Alternator Efficiency.</p> <p>N/C (Non-Compliant): Bids will be declared Non-responsive.</p>			

Grid 26	9.1 Testing	(max possible points 200) Reasons for Point Rating	Points Scored
200 max	Generator Testing facility in British Columbia		
100 max	Generator Testing facility in Canada		
10 max	Contractor's proposal adequately addresses items as stated in the specification.		
N/C	Contractor's proposal does not adequately address items as stated in the specification.		

N/C (Non-Compliant): Bids will be declared Non-responsive.

Grid 27	10.3 Diesel engine speed [RPM] and piston stroke	(max possible points 500) Reasons for Point Rating	Points Scored
500 max	RPM x Stroke [m] / 30 <= 7 [m/s]		
400 max	RPM x Stroke [m] / 30 <= 8 [m/s]		
200 max	RPM x Stroke [m] / 30 <= 9 [m/s]		
25 max	RPM x Stroke / 30 [m] <= 10 [m/s]		

Grid 28	10.3.6. Number of Engine cylinders	(max possible points 1000) Reasons for Point Rating	Points Scored
1000 max	4 to 8 Cylinders per engine		
500 max	8 to 12 Cylinders per engine		
100 max	12 to 16 Cylinders per engine		
0 max	16 or more Cylinders per engine		

Grid 29	12.1 one (1) year warranty	(max possible points 10) Reasons for Point Rating	Points Scored
10	Contractor's proposal adequately addresses items as stated in the specification.		
N/C	Contractor's proposal does not adequately address items as stated in the specification.		
N/C (Non-Compliant): Bids will be declared Non-responsive.			

Grid 30	12.2 and 12.3 FSR requirements and alternator to generator reassembly procedure.	(max possible points 10) Reasons for Point Rating	Points Scored
10	Contractor's proposal adequately addresses items as stated in the specification.		
N/C	Contractor's proposal does not adequately address items as stated in the specification.		
N/C (Non-Compliant): Bids will be declared Non-responsive.			

Grid 31	5.3.10 & 7.4.15 Electronic Engine Controls and Load Sharing interface.	(max possible points 20) Reasons for Point Rating	Points Scored
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20	Contractor's proposal will supply the same switchboard interface as the fitted Woodward 2310D.		
N/C	Contractor's proposal does not adequately address items as stated in the specification.		
N/C (Non-Compliant): Bids will be declared Non-responsive.			

Maximum Technical points grid 1 to 10	1020
Maximum Technical points grid 11 to 20	2020
Maximum Technical points grid 21 to 30	1940
Maximum Technical points grid 31	20
Sum (Above)	5000