Public Works and Government Services Canada | Travaux publics et Services gouvernementaux Canada

RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:

Bid Receiving - PWGSC / Réception des soumissions - TPSGC
11 Laurier St. / 11, rue Laurier
Place du Portage , Phase III
Core 0B2 / Noyau 0B2
Gatineau
Québec
K1A 0S5
Bid Fax: (819) 997-9776

Revision to a Request for a Standing Offer

Révision à une demande d'offre à commandes

National Individual Standing Offer (NISO)

Offre à commandes individuelle nationale (OCIN)

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

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

Comments - Commentaires

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

Issuing Office - Bureau de distribution
Marine Machinery and Services / Machineries et services maritimes
11 Laurier St. / 11, rue Laurier
6C2, Place du Portage
Gatineau
Québec
K1A 0S5

Title - Sujet
MARINE VESSEL FUEL MANAGEMENT SYS

Solicitation No. - N° de l'invitation	Date
F7044-150030/A	2015-12-02
Client Reference No. - N° de référence du client	**Amendment No. - N° modif.**
F7044-150030	001
File No. - N° de dossier	**CCC No./N° CCC - FMS No./N° VME**
025ml.F7044-150030	

GETS Reference No. - N° de référence de SEAG
PW-$$ML-025-25455

Date of Original Request for Standing Offer
Date de la demande de l'offre à commandes originale 2015-11-06

Solicitation Closes - L'invitation prend fin
at - à 02:00 PM
on - le 2015-12-17

Time Zone
Fuseau horaire
Eastern Standard Time EST

Address Enquiries to: - Adresser toutes questions à:	Buyer Id - Id de l'acheteur
Girard, Luc J.	025ml
Telephone No. - N° de téléphone	**FAX No. - N° de FAX**
(819) 956-0652 ( )	(819) 956-0897

Delivery Required - Livraison exigée

Destination - of Goods, Services, and Construction:
Destination - des biens, services et construction:

Security - Sécurité
This revision does not change the security requirements of the Offer.
Cette révision ne change pas les besoins en matière de sécurité de la présente offre.

Instructions: See Herein

Instructions: Voir aux présentes

Acknowledgement copy required / Accusé de réception requis	Yes - Oui	No - Non
	☐	☐

The Offeror hereby acknowledges this revision to its Offer.
Le proposant constate, par la présente, cette révision à son offre.

Signature **Date**

Name and title of person authorized to sign on behalf of offeror. (type or print)
Nom et titre de la personne autorisée à signer au nom du proposant.
(taper ou écrire en caractères d'imprimerie)

For the Minister - Pour le Ministre

Canada

Fuel Metering Bidders Questions and Answers

December 1, 2015

Keys for Interpretation of Answers:

No Highlight = Questions not answered yet, Green Highlight = Answers already provided, Yellow Highlight = Current answers

Item #	Ref.	Statements	Questions	Answers
1	SOW	Annex A, Appendix 1, Table 1, line 29	Does the vessel Captain Goddard have three ship service engines or is it two?	The Captain Goddard vessel only has two (2) Ship Service Generators. Amended Table 1 attached..
2	SOW	Annex A, Appendix 1, Table 1, Line 34	The indicated shaft size of 850mm for the Alfred Needler seems high, is this shaft size correct?	The indicated shaft size is incorrect. The correct shaft size is 262.6mm. Amended Table 1 attached.
3	RFP	Annex E, section 2, IM1	Is the 'Evaluation Factor' in section IM1 to be calculated as follows? Number of vessels (34) multiplied by the number of average days to perform the work per vessel multiplied by the number of FSR's performing the work for each day?	The bidder is to provide the FSR per diem rate and this rate will be multiplied by the stated Evaluation Factor of 34. As outlined in section 1.3 Government Furnished Equipment and Services of Annex A, Canada is performing the installation of the equipment and the FSR will monitor and finalize the installation and set-up.
4	SOW	Annex A, section 4.4.2	Is the Canadian Coast Guard looking to profile the energy performance for each platform and rank the fleet e.g. fuel/speed, torque/fuel, service load/propulsive load fuel/nm per knot, to enable the platform to operate at peak efficiency when schedules allow and maximize endurance?	CCG plans to monitor performance, have the ability to plan for future years, and schedule maintenance plans based on performance.
5	SOW	Annex A, section 4.4.4	Is there a requirement for a shore-side element to the data collection – planning, estimating?	Not as part of this Statement of Work (SOW).

Item #	Ref.	Statements	Questions	Answers
6	SOW	Annex A, section 4.4.2	Is the ability to detect abnormal fuel consumption required?	No.
7	SOW	Annex A, section 4.2.4	a) Will the system have to deal with multiple fuel types? b) Do all vessels have the same fuel delivery system – fuel line bores, fuel types?	a) Fuel type is as per SOW section 4.2. b) Fuel delivery system and line bores as per SOW. These could differ from Class to Class.
8	SOW	Annex A, section 1.4	Will the system need to be calibrated against sea state and environmental conditions?	No.
9	SOW	Annex A, section 4.2.3	a) Is the software to be focused on data logging of fuel flow in isolation of other parameters? b) Are there any other sensors to be integrated?	a) Standalone system as per SOW. b) There are no other CCG supplied sensors to be integrated.

	A	B	C	D	E	F	G	H
1				Appendix 1 to Annex "A"				
2	**TABLE 1**	**Vessel Location position du navire**	**Main Engines Moteurs principaux**		**Ship Service Génératrices**		**Shafts l'arbre porte-hélice**	
3	**CCGS NGCC**		**Number Fitted Nombre installé**	**Manufacturer/model Marque/modèle**	**Number Fitted Nombre installé**	**Manufacturer/model Marque/modèle**	**Number Fitted Nombre installé**	**Diameter**
4	**Louis S. St-Laurent**	St-John's, NL	5	Krupp Makk 16M453C	3	Krupp Mak 6M282	3	2 of 26" 1 of 25.5"
5	**Terry Fox**	St-John's, NL	4	Stork-Werkspoor 8TM410	2	Catepillar 3512B	2	775mm
6	**Amundsen**	Québec, QC	6	Alco M251F	3	Alco MLW251F	2	24"
7	**Des Groseilliers**	Québec, QC	6	Alco M251F	3	Alco MLW251F	2	24"
8	**Henry Larsen**	St-John's, NL	3	Wartsilla Vasa 16V32	1 of each de chaque	Wartsila 6L22 Caterpiller 3512B	2	662mm
9	**Pierre Radisson**	Québec, QC	6	Alco M251F	4	MTU 4000	2	24"
10	**Ann Harvey**	St-John's, NL	3	Alco 251F	1	Caterpillar 3508	2	510 mm
11	**Edward Cornwallis**	Dartmouth, NS	3	Alco 251F	1	Caterpillar 3508	2	510 mm
12	**George R. Pearkes**	St-John's, NL	3	Alco 251F	1	Caterpillar 3508	2	510 mm
13	**Martha L. Black**	Québec, QC	3	Alco 251F	1	Caterpillar 3508	2	510 mm
14	**Sir Wilfrid Laurier**	Victoria, BC	3	Alco 251F	1	Caterpillar 3508	2	510 mm
15	**Sir Williams Alexander**	Dartmouth, NS	3	Alco 251F	1	Caterpillar 3508	2	510 mm
16	**Samuel Risley**	Parry Sound, ON	4	Wartsilla Vasa 12V22	2	General Motors 6-71	2	200mm
17	**Teleost**	St-John's, NL	1	Caterpillar 3612	1	Caterpillar 3512	1	340mm
18	**John P. Tully**	Victoria, BC	2	Deutz/ S/BV8M628	3	Caterpillar C18	1	290mm
19	**Cape Roger**	St-John's, NL	2	Polar Nohab F212V	2	Caterpillar 3406	1	310
20	**Leonard J. Cowley**	St-John's, NL	2	Polar Nohab F312V	3	Caterpillar 3412	1	13.5"
21	**Gordon Reid**	Victoria, BC	4	Deutz 6BVM 628	3	Caterpillar 3406	2	125mm
22	**Caporal Kaeble V.C.**	Quebec	2	MTU 4000M 93L	2	Northern Lights M1066A3	2	152mm
23	**Corporal McLaren M.M.V.**	Dartmouth, NS	2	MTU 4000M 93L	2	Northern Lights M1066A3	2	152mm
24	**Corporal Teather C.V.**	Burlington, ON	2	MTU 4000M 93L	2	Northern Lights M1066A3	2	152mm
25	**G. Peddle S.C.**	St-John's, NL	2	MTU 4000M 93L	2	Northern Lights M1066A3	2	152mm
26	**A LeBlanc**	Quebec	2	MTU 4000M 93L	2	Northern Lights M1066A3	2	152mm
27	**M Charles M.B.**	Victoria BC	2	MTU 4000M 93L	2	Northern Lights M1066A3	2	152mm
28	**Constable Carrière**	Burlington, ON	2	MTU 4000M 93L	2	Northern Lights M1066A3	2	152mm
29	**Captain Goddard**	Victoria BC	2	MTU 4000M 93L	3	Northern Lights M1066A3	2	152mm
30	**Private Robertson V.C.**	Burlington, ON	2	MTU 4000M 93L	2	Northern Lights M1066A3	2	152mm
31	**Sir Wilfred Grenfell**	St-John's, NL	2	Deutz BVM 628 V16 Deutz BVM 628 L9	2	Caterpiller C18	2	320mm
32	**Tanu**	Victoria, BC	2	Fairbanks Morse 38D8	3	Caterpillar C9	1	253mm
33	**Hudson**	Dartmouth, NS	2	Alco 251D	2	Caterpillar 398	2	14.78"
34	**Alfred Needler**	Dartmouth, NS	1	Caterpillar 3606	2	Caterpillar 3306	1	262.6mm
35	**Eckaloo**	Mackenzie River	2	Caterpillar 3512B	2	Caterpillar 3306	2	6"
36	**Griffon**	Prescott, ON	4	Fairbanks Morse 38D8	3	Caterpillar 353	2	7 "
37	**Limnos**	Burlington, ON	2	Caterpillar C18	2	Caterpillar C6.6	2	

TABLE 2 MAIN PROPULSION ENGINE DATA
Moteurs principaux

Manufacturers	Marque	MAK	ALCO	ALCO	ALCO	MTU	WARTSILA VASA	WARTSILA VASA	CATERPILLER	CATERPILLER	CATERPILLER	CATERPILLER	STORK	Deutz	Deutz	Deutz	Deutz	Fairbanks Morse	Nohab	Nohab
Model	modèle	16M453	251 E, F	251F	251B	4000M93L	16V32	12V22MD	3512B	3606C	3612	3508	8TM410	SBV6M628	BV8M628	SBV9M628	SBV16M628	38D8 1/8	F312A	F212V
Quantity	Nombre installé	5	18	18	4	18	3	4	2	1	1	6	4	4	2	2	2	6	2	2
Power Output [Kw]	Puissance en kW (chacun)	5872	2200	2200	2980	2496		1630	902	1657	2984	600	4266	916	1150	1652	3052	995	1560	1640
Revolutions/min [RPM]	Révolutions/minute (max)	600	900	1000	1000	2100	720	900	1260	1000	850	1800	600	750	900	900	900	750	750	750
Fuel Temperature	Température du carburant	Ambient	Ambient	Ambient	Ambient	55	Ambient	Ambient	Ambient	Ambient	Ambient	Ambient	Ambient	Ambient	Ambient	Ambient	Ambient	Ambient		Ambient
Estimated Fuel Consumption 95% MCR (Maximum Continuous Rating) LPH	Consommation approximative de mazout à 95% de la puissance maximale continue	1100	475	500	430	550	917	350	208	250	644	125	1000	200	250	410	737	200	750	100
Booster Pump Capacity LPH, Pressure	Pompe d'appoint Oui /Non Capacité en L/h Pression	2800	1800, 3-4 bar			1800LPH 1800bar	12,000	4 BAR					6000, 3 BAR	3.BAR	1800 5 BAR	3000, 3 BAR				
Supply Line Diameter [mm]	Diamètre de la canalisation d'alimentation	25.4	25	12.7	19.1	10	25	28	25.4	25.4	25.4	19.1	50	25	19	25	25.4	19	25.4	25.4
Return Line Diameter [mm]	Diamètre de la canalisation de retour	**25.4**	22-Jan	19.525	19.1	10	25	28	19	25.4	25.4	19.1	38	25	19	19	25.4	19	19	12.7
Mechanical/Electronic Injection	Injection: mécanique/électronique		M		M	E	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Engine Fuel Pp capacity	Capacité de la pompe de carburant en L/h		1800			1800	3780	400			4770				1800 5BAR	600				
Electrical power meter fitted	Compteur de puissance électrique installé		Y		N	N	Y	Y	N	N	N	N	Y	N		N		N	N	N
Fuel Consumption (theoretical) [L/(kw*h)]		**0.266**	0.293	0.293	0.292	0.261	0.227	0.233	0.232	0.231	0.218	0.229	0.247	0.233	0.231	0.231	0.228	0.321	0.228	0.246

TABLE 3 SHIP SERVICE AUXIALIARY ENGINE DATA
Génératrices

Manufacturers	Marque	MAK	Volvo Penta	MTU*	Northern Lights/ Lugger	WARTSILA VASA	CATERPILLER	CATERPILLER	CATERPILLER	CATERPILLER	CATERPILLER	CATERPILLER	CATERPILLER	CATERPILLER	CATERPILLER	CATERPILLER	CATERPILLER
Model	modèle	6M282	D16 C-A	8V4000M23S	M1066A3	6L22	3306B	3306	3406	C18	C9	3508	3512	3512B	D398	3412	
Quantity	Nombre installé	3	2	9	18	1	2	3	10	5	3	6	1	2	2	1	
Power Output [Kw]	Puissance en kW (chacun)	950.0	500	750	160	925	200	120	320	357-425	215	600	1070	1030	660	450	
Revolutions/min [RPM]	Révolutions/minute (max)	900	1800	1800	1800	120	1800	1800	1800	1800	1800	1800	1800	1200	1200	1800	
Fuel Temperature**	Température du carburant	Ambient	Ambient	Ambient	Ambient	Ambient	Ambient	Ambient	Ambient	Ambient	Ambient	Ambient	Ambient	Ambient	Ambient	Ambient	
Estimated Fuel Consumption 95% MCR LPH	Consommation approximative de mazout à 95% de la puissance maximale continue	**4.5**	83	450	16.8 @ 33%		40	13.5	80	90	28	140	344	160	80	50	
Booster Pump Capacity LPH, Pressure	Pompe d'appoint Oui /Non Capacité en L/h Pression	**9,9**			8	-0.261						680. 3.6 bar					
Supply Line Diameter [mm]	Diamètre de la canalisation d'alimentation	12.7	19.1	25.4	6	20	12.7	11	11	19.13	12.7	19.1	25.4	25.4	19	19	
Return Line Diameter [mm]	Diamètre de la canalisation de retour	12.7	19.1	12.7	E	20	12.7	11	11	19.1	12.7	19.1	25.4	25.4	19	19	
Mechanical/Electronic Injection	Injection: mécanique/électronique	**M**	E	E		M	M	M	M	E	M	M	M	E	M	M	
Engine Fuel Pp capacity	Capacité de la pompe de carburant en L/h.																
Electrical power meter fitted	Compteur de puissance électrique installé	**Y**	N	Y	f	Y	Y	N	Y	Y	Y	Y	N	Y	N	N	
Fuel Consumption (theoretical) [L/(kw*h)]		**0.237**	0.256	0.254		0.245	0.339	0.339	0.213	0.25	0.32	0.229	0.232	0.232	0.385	0.289	

* Density of fuel = 832 g/L

**Ambient temperature range in ER spaces 10°C to 50°C