



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

**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
Marine Machinery and Services / Machineries et
services maritimes
11 Laurier St. / 11, rue Laurier
6C2, Place du Portage
Gatineau
Québec
K1A 0S5

Title - Sujet HVAC SYS CCGS G PEARKES & A HARVEY	
Solicitation No. - N° de l'invitation F7049-160078/A	Amendment No. - N° modif. 003
Client Reference No. - N° de référence du client F7049-160078	Date 2016-10-25
GETS Reference No. - N° de référence de SEAG PW-\$\$ML-050-25991	
File No. - N° de dossier 050ml.F7049-160078	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2016-11-07	
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Richer, Francois	Buyer Id - Id de l'acheteur 050ml
Telephone No. - N° de téléphone (873) 469-4752 ()	FAX No. - N° de FAX (819) 956-6648
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: Canadian Coast Guard Base (CCG), 280 Southside Road, St. John's, NL A1E 0A3	

Instructions: See Herein

Instructions: Voir aux présentes

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

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AMENDMENT NO. 003

This amendment is raised to address the following question and answer into the solicitation and to publish the questions and answers from the Bidder's Conference held in St. John's, N.L. on October 13, 2016.

QUESTIONS AND ANSWERS:

Question 7: (Item 3.2.10)

R438A is a replacement refrigerant for R-22 and is generally not used for new equipment. Is R407C an acceptable refrigerant for this project?

Answer 7:

R407C is also an acceptable refrigerant gas for use with the new HVAC systems.

Updates:

- 1) All references in this RFP to the 31 January 2017 is now replaced by 28 February 2017.**
- 2) Due to an unforeseen electronic complication during the last upload of Amendment 002, all drawings have been reattached in Amendment 003.**

MINUTES OF THE BIDDERS CONFERENCE:

**Supply of New HVAC and Associated Spares for CCG Ships Ann Harvey and George R. Pearkes
PWGSC File Number: F7049-160078/A
Minutes from the Bidders' Conference
14:30 PM, Thursday October 13, 2016
St. John's Newfoundland**

INTRODUCTIONS:

Attendees:

Francois Richer	PWGSC
Mark Haydock	PWGSC
Joseph Earles	CCG
Mia Hicks	CCG
Kevin Downs	EP HAC Inc.
Peeter Nielander	Berg Chilling Systems
Glenn Crane	Hearting Products Ltd.
Barry Goulding	Newfoundland HVAC
Barry Brown	Newfoundland HVAC

OPENING REMARKS:

Canada welcomed all bidders and appreciated their participation in the process.

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The purpose of the conference was to review all documents issued to date with respect to the RFP and to discuss any contractual and technical issues related to them.

CA mentioned there were additional drawings posted October 12.

Bidders were reminded that when asking questions that they were to reference the specific section of the specification.

1) Documents Issued to Bidders:

The following documents have been published:

- A) RFP No. F7049-160078/A dated September 26, 2016;
- B) Solicitation Amendment 001 dated October 6, 2016;
- C) Solicitation Amendment 002 dated October 11, 2016.

CA noted that an anticipated Solicitation Amendment No. 3 would be issued by mid next week.

2) Reminders on the procurement process.

The following comments were made by the PWGSC Contracting Authority:

- a. Reminder of Bid Closing – Nov 07, 2016 at 2:00 PM Eastern Standard Time.
- b. Bids are to be submitted to the PWGSC Bid Receiving Unit in Gatineau Quebec – address included on the cover sheet of the solicitation document. This is the only office that can accept the bids for this solicitation.
- c. Bidders were reminded not to submit to any other PWGSC Regional Office other than the address indicated on the cover sheet. Bids submitted to these offices would not be redirected to PWGSC Bid Receiving Unit in Gatineau, Quebec.
- d. Bidders were reminded not to send their bids directly to Contracting Authority (CA).
- e. Time is of the essence. Deliverables must be delivered by Jan 31, 2017.
- f. As specified in the ITT, Bidders can only request clarifications/changes to the RFP to the PWGSC CA up to 7 business days prior to bid closing.
- g. Bidders shall not add comments, notes or conditions to the ITT. Adding comments, notes or conditions to the RFP will result in the bid being non-responsive.

CA stated we will start with the Technical Specifications first followed by the RFP.

3) Review of RFP, Annex A – Statement of Requirement for the Supply of New HVAC and Associated Spares for CCG Ships Ann Harvey and George R. Pearkes (PWGSC/CCG)

Part 1:Scope

1.1 No Questions

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CCG Clarification – Bulkhead to be removed to facilitate access for equipment.

- 1.2 Question: Was asked if questions with regards to Class would be answered by TA
Answer: CCG stated contractor needs to obtain confirmation from Class and TC.**

CCG Clarification – This contract deals with supply of equipment not installation. The engineering and installation is for a follow on contract.

- 1.3 No Questions**

- 1.4 Question: Does CCG want manuals produced in both Official Languages
Answer: Manuals to be in English for CCGS Ann Harvey and CCGS George R.Pearkes.
For options if a system is ordered for Quebec the manuals will be in French, if a system is ordered for B.C. the manuals will be in English.**

- 1.5 No Questions**

- 1.6 No Questions**

Part 2: Standards

2.1

- 2.1.1 Question: It was stated that ISO 7547 requires 50% fresh air – 40% fresh Air or less would result in non-compliance.**

**CCG Clarification – ISO 7547 – will be removed from the Statement of Requirement.
CCG has now removed this ISO 7547 requirement from the SOR.**

PWGSC reminded bidders that they needed to provide what was required as per the specification.

- 2.2 No Questions**

Part 3: Technical Description

- 3.1 No Questions**

3.2

- 3.2.1 No Questions**

- 3.2.2 No Questions**

- 3.2.3 No Questions**

- 3.2.3.2 Remark from PWGSC: blank paragraph 3.2.3.2 – To be removed from the Statement of Requirement**

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3.2.4 Question: Is there Integration requirements with the Nortec humidifiers?

Answer: Both ships have Nortec humidifiers but they are different models – CCG requires Integration with the Nortec humidifiers.

Question: How is heating adjusted in the cabins?

Answer: It is done manually by the local dampers – either by closing or opening them

Question: Spec does not state the compressor required – To get CCG to the output capacities they require, this may require a change in the compressor. Is it up to the Vendor?

Answer: It is up to the Vendor to design and Build a system that will meet the output capacities of the existing system.

Question: Do you want the whole skid on a resilient mount - you don't want a noise isolator?

Answer: CCG wants the skid on a resilient mount.

3.2.5 No Questions

3.2.6 No Questions

CCG Clarification – The resilient mounts must be under the mounting frame (which includes all of the machinery for the entire system.). CCG to provide amended paragraph 3.2.6 stating resilient mounts must be contractor supplied.

Amendment: The following underlined text is added to the SOR: The resilient mounts must be contractor supplied.

3.2.7 Question: This statement cannot be considered as part of the equipment supply - why is it here?

Answer: Agreed – this will be removed from the Specification.

3.2.8 Question: Need to know what the actual air flow is from the original design, this is a minimum requirement in order to calculate heating and cooling loads. Currently this information is not in the specification. Without this data a vendor will be hard pressed to provide a system as they cannot calculate the size of the coils and the heating and cooling load without the CFM. A vendor requires at a minimum the capacity of the unit.

With the CFM and knowing the fixed power of the existing motor an approximation of the static pressure capability can be made.

Answer: CCG to provide the data. See amended paragraph 3.2.8 below:

Design parameters: Winter:-40°C to 21°C with 185km/hr wind, 30% relative humidity. Summer: 35°C at 70% relative humidity to 27 °C at 50 % relative humidity. The system must be capable of maintaining the above conditions in accommodation areas when supplied with a mixture of 60% recirculated air and 40% fresh air. **Amendment: The following underlined text is added to the SOR: For the Air Conditioning: the Central Cooling heat load for each plant is 106 kCal/Per Hour. The total heat load per hour is 212 kCal with both A/C plants running. For the Steam Heating: allowance/approximate demand as per the steam drawing is 138.8 Kg steam/hour per plant. The total steam demand flow is 277.6 Kg/Hour.**

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3.2.9 Question: Vendors do not have the size of the returns and outside air openings –can this Be provided?

Answer: CCG to provide the size of the connections.

Question: Why are the discharges on the fans for the two ships different?

Answer: Provide the equipment as per the specification.

3.2.10 No Questions

3.2.11 No Questions

3.2.12 No Questions

3.2.13 No Questions

CCG amends this paragraph 3.2.13 as follow:

Steam heating coils must be sized to preheat the air to 21°C. The steam work pressure supplied to the heaters is 100 psi. The coil must be made of seamless copper tube and die formed self-spacing full collared copper plate fins. The coil casing must be of galvanized steel construction. The off coil temperature must be controlled by a pneumatically or electrically operated control valve, by –pass valves must be fitted around the control valve. A manual condensate drain valve at the lowest point is required. **Amendment: The following underlined text is added to the SOR: The steam coil must be freeze protected.**

3.2.14 Question: What is meant by heavy gauge?

Answer: CCG to amend and clarify with “14 gauge galvanized steel”

CCG amends this paragraph 3.2.14 as follow:

Amendment: The following struck through text is removed from the SOR: ~~The filter housings must be constructed of galvanized heavy gauge steel.~~ Amendment: The following underlined text is added to the SOR:-The filter housings must be constructed of 14 gauge galvanized steel as a minimum thickness.

3.2.15 No Questions

3.2.16 Question: What is meant by heavy gauge?

Answer: CCG to provide minimum gauge and amend 3.2.16.

CCG amends this paragraph 3.2.16 as follow:

Air handling units must be heavy gauge galvanized steel with bracing. All internals must be housed in a galvanized steel frame and interconnected with a rod and linkage to thermostatically controlled pneumatic actuators. **Amendment: The following struck through text is removed from the SOR: ~~The dampers must be of heavy gauge galvanized steel with corrosion resistant axles rotating in self-lubricating nylon bushings.~~ Amendment: The following underlined text is added to the SOR: The dampers must be of 14 gauge galvanized steel minimum with corrosion resistant axles rotating in self-lubricating nylon bushings. The section**

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must be arranged for parallel blade operation to direct recirculated air and outdoor air into a single blended air stream before it reaches the coil face.

3.2.17 No Questions – discussed at 3.2.4

3.2.18 Question: Will spec sheet be amended with Air Flow and CFM.

Answer: Blower CFM will be provided

CCG amends this paragraph 3.2.18 as follow:

The accommodation HVAC systems must match the capacities of the existing system. See attached spec sheet. **Amendment: The following underlined text is added to the SOR: The cubic feet per minute (CFM) rating of an individual plant blower is 5800.**

3.2.19 No Questions

3.2.20 Question: If more power is required is it possible to obtain more “ampacity” than 70 amps?

Answer: CCG to confirm

CCG amends this paragraph 3.2.18 as follow:

Amendment: The following underlined text is added to the SOR: An additional 110VAC, 60 Hertz, 15 Amp circuit is also available if necessary.

Part 4: Quality Assurance and Testing

4.1 No Questions

4.2 Question: Is it a non-freeze steam coil?

Answer: CCG to confirm reference to freeze protection, if it is not in the spec it will be Added.

See 3.2.13 above.

4.3 No Questions

Part 5: Deliverables

5.1 No Questions

5.2 Question: What is the planned Contract Award Date?

Answer: Approximately 21 of November.

Question: Would CCG consider changing the delivery date of January 31, 2017 as end of January delivery based on a Contract award of mid-November would be extremely difficult to meet – it would take generally 10-12 weeks to produce.

Answer: Canada will discuss internally.

CCG amends this paragraph 5.2 as follow:

Amendment: The following struck through text is removed from the SOR: ~~All deliverables stated in 5.1 to 5.3 must be delivered by January 31, 2017.~~ **Amendment:**

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The following underlined text is added to the SOR: All deliverables stated in 5.1 to 5.3 must be delivered by February 28, 2017.

5.3 No Questions

5.4 No Questions

5.5 Question: Why the reference to Fifteen Years?
Answer: it is for CCG budgetary planning purposes.

5.6 No Questions

5.7 CCG Clarification: TSOR 5.7 and Contract Article 6.4.3 are contradictory. 5.7 To be Amended such that delivery is in St. John's Newfoundland as per Article 6.4.3. CCG amends this paragraph 5.7 as follow:

Amendment: The following struck through text is removed from the SOR: ~~Delivery of the new HVAC systems must be by Jan.31, 2017 at the contractor's storage facility and subject to Article 6.4.3 of the Contract. Additional optional locations within Canada will be determined at a later date and will be dependent on each specific CCG requirement.~~

Amendment: The following underlined text is added to the SOR: Delivery of the new HVAC systems must be by February 28, 2017 to CCG Technical Stores, St. John's, NL. Additional optional locations within Canada will be determined at a later date and will be dependent on each specific CCG requirement.

4) RFP Review

Part 1: General Information

- 1.1 No Questions
- 1.2 No Questions
- 1.3 No Questions
- 1.4 No Questions
- 1.5 No Questions

Part 2: Bidder Instruction

- 2.1 No Questions
- 2.2 No Question
- 2.3 No Questions
- 2.4 No Questions
- 2.5 No Questions
- 2.6 No Questions

Part 3: Bid Preparation Instructions

- 3.1 Contract Authority reminded bidders to ensure financial information is only included in section II.

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Financial Bid:

Question: Confirming that No exchange Rate Fluctuation is being Offered?

Answer: Correct – there is no Exchange rate Fluctuation relief being provided in this contract.

Part 4: Evaluation Procedures and Basis of Selection

4.1.1 Contract Authority reminded bidders to provide and fill out the Mandatory Requirements Section at 4.1.1.

Technical Bid:

Question: Can you provide 4.1.1 of the Mandatory Requirements Reference section in an Excel file?

Answer: Yes a file in Excel or Word will be provided to bidders.

Upon request from the Bidders, the Contracting Authority will provide a revised copy no. 1 in Word format. This revised copy no. 1 does now replace the previously posted version of the RFP, at Part 4.1.1. There has been one addition to the new version 1 of the Mandatory Requirements Reference Section and it is found under Annex no. 1.3. This new version 1 of the Mandatory Requirements Reference section at 4.1.1 of this RFP must be submitted with your proposal.

The revised PDF copy of version no. 1 of the Mandatory Requirements Reference Section has been attached.

Question: Why do you want a sales brochure? We are web based and no longer provide brochures, and we have never been asked for this before. Please define what you want.

Answer: Bidder can provide any supporting documentation.

4.1.2 No Questions

4.2 No Questions

Part 5: Certifications and Additional Information

5.1 No Questions

5.2 No Question

Part 6: Resulting Contract Clauses

6.1 No Questions

6.2 No Questions

6.3 No Questions

6.4 No Questions

6.5 No Questions

6.6 No Questions

6.7 No Questions

6.8 No Questions

6.9 No Questions

6.10 No Questions

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6.11 No Questions

6.12 No Questions

5) Varia
No additional comments.

6) Conclusion of Bidders Conference
PWGSC CA thanked everyone for participating and contributing in the site visit and bidders conference and also expressed his gratitude to CCG for their hospitality and to have coordinated and facilitated the site visits to both ships and arranged to host the bidder's conference at their

4.1.1 Technical Evaluation (V1)

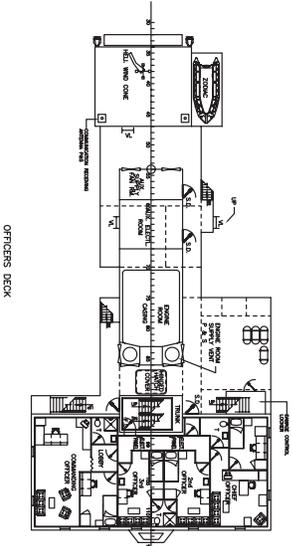
4.1.1.1 Mandatory Technical Criteria

Mandatory Requirements Reference Section:

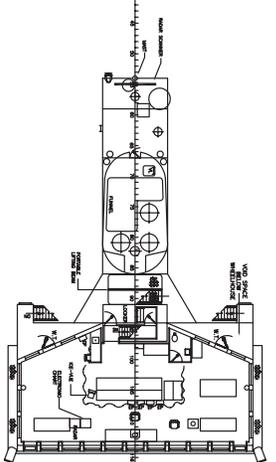
CCGS Ann Harvey and CCGS George Pearkes – HVAC Systems Requirement

Statement of Requirement (SOR) no.	Mandatory Requirement	Compliant – Y/N	Bid reference / Page no./ Paragraph no.	Comments
Annex A - 1.1	Ability to supply systems			
Annex A - 1.3	HVAC systems be in marine service and have (OEM) representation in Canada and other requirements as per paragraph 1.3			
Annex A - 1.4	OEM sales service			
Annex A - 1.6	Language and delivery requirements			
Annex A - 1.6	FSR capabilities			
Annex A - 2	Standards as per entire Section 2 of SOR			
Annex A - 3.2.1	Technical requirement			
Annex A - 3.2.2	Technical requirement			
Annex A - 3.2.3	Technical requirement			
Annex A - 3.2.4	Technical requirement			
Annex A - 3.2.5	Technical requirement			
Annex A - 3.2.6	Technical requirement			
Annex A - 3.2.7	Technical requirement			
Annex A - 3.2.8	Technical requirement			
Annex A - 3.2.9	Technical requirement			
Annex A - 3.2.10	Technical requirement			
Annex A - 3.2.11	Technical requirement			
Annex A - 3.2.12	Technical requirement			
Annex A - 3.2.13	Technical requirement			
Annex A - 3.2.14	Technical requirement			
Annex A - 3.2.15	Technical requirement			

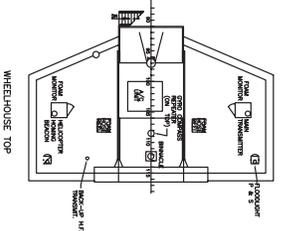
Statement of Requirement (SOR) no.	Mandatory Requirement	Compliant – Y/N	Bid reference / Page no./ Paragraph no.	Statement of Requirement (SOR) no.
Annex A - 3.2.16	Technical requirement			
Annex A - 3.2.17	Technical requirement			
Annex A - 3.2.18	Technical requirement			
Annex A - 3.2.19	Technical requirement			
Annex A - 3.2.20	Technical requirement			
Annex A - 4	Quality assurance			
Annex A - 5.1	Technical data and delivery date			
Annex A - 5.2	Spares			
Annex A - 5.3	Optional Spares			
Annex A - 5.4	List of spares			
Annex A - 5.5	Training			
Annex A - 5.6	Manuals			
Annex A - 5.7	Delivery			
	The bidder shall supply a list of at least five (5) marine installations within the last ten (10) years with HVAC systems which consist of the same or very similar equipment as proposed for the CCGS Ann Harvey and CCGS George R. Pearkes.			
	The bidder shall supply one copy of the Manufacturer's published maintenance schedule for the equipment comprising the HVAC systems.			
	The bidder shall supply one copy of the Manufacturer's published sales brochure for the proposed equipment comprising the HVAC systems.			



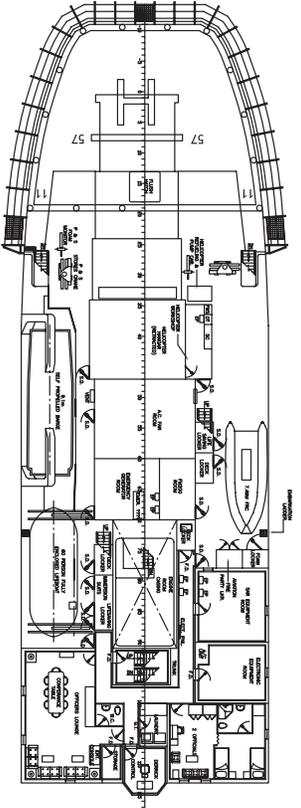
OFFICERS DECK



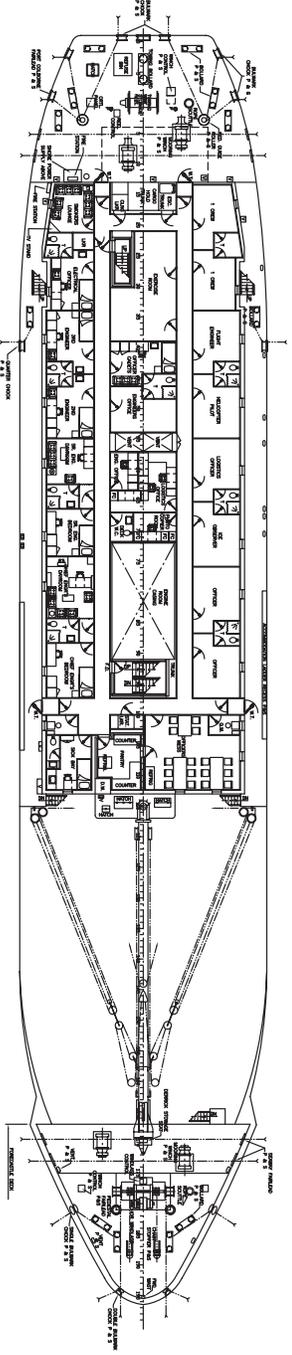
WHEELHOUSE FLOOR



WHEELHOUSE TOP



BOAT DECK



UPPER DECK

CHANGING THE NUMBER - 02/19/02

NO.	DESCRIPTION	DATE	BY
1	ISSUED	11/10/01	...
2
3
4
5
6
7
8
9
10

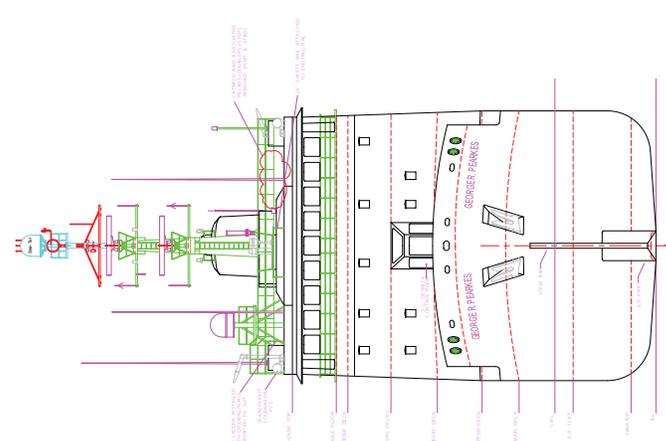
GENERAL ARRANGEMENT
 OFFICERS DECK & WHEELHOUSE FLOOR
 1/73

PRINCIPAL PARTICULARS

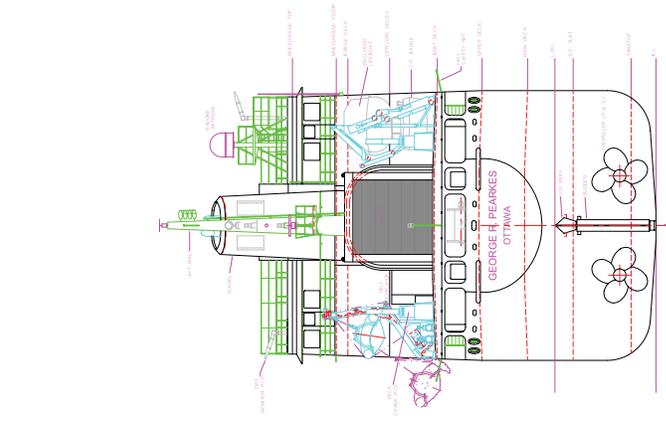
OVERALL LENGTH 43.00 m
 MAXIMUM WIDTH 14.00 m
 MAXIMUM HEIGHT 14.00 m
 MAXIMUM SPAN 14.00 m
 MAXIMUM CLEARANCE 14.00 m
 MAXIMUM WEIGHT 100,000 kg
 MAXIMUM WIND LOAD 10 kN/m²
 MAXIMUM SEISMIC LOAD 10 kN/m²
 MAXIMUM TEMPERATURE 40°C
 MAXIMUM HUMIDITY 100%
 MAXIMUM VIBRATION 10 mm/s²
 MAXIMUM ACCELERATION 10 m/s²
 MAXIMUM DECELERATION 10 m/s²
 MAXIMUM CLIMATIC CLASS I

CARACTÉRISTIQUES PRINCIPALES

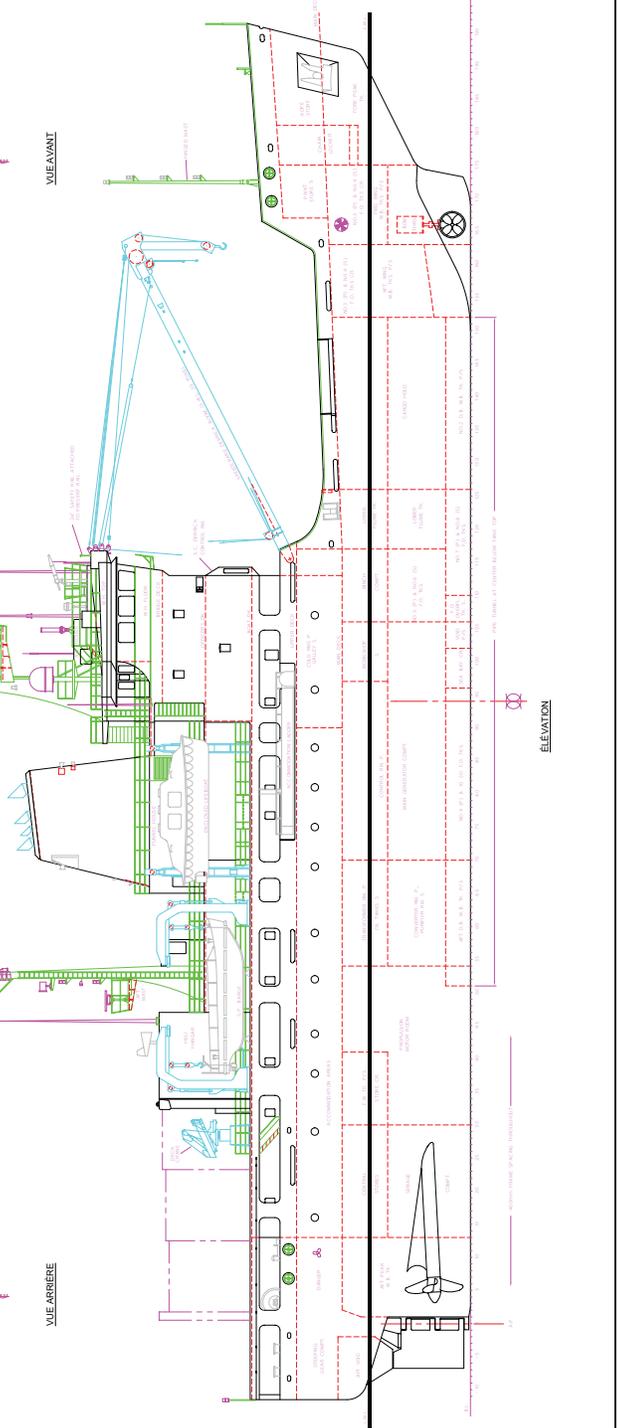
LONGUEUR TOTALE 43,00 m
 LARGEUR MAXIMALE 14,00 m
 HAUTEUR MAXIMALE 14,00 m
 ENTRAAXE MAXIMALE 14,00 m
 PONDUS MAXIMALES 100 000 kg
 CHARGE MAXIMALE 10 kN/m²
 CHARGE MAXIMALE 10 kN/m²
 TEMPÉRATURE MAXIMALE 40°C
 HUMIDITÉ MAXIMALE 100%
 VIBRATION MAXIMALE 10 mm/s²
 ACCÉLÉRATION MAXIMALE 10 m/s²
 DÉCÉLÉRATION MAXIMALE 10 m/s²
 CLASSE CLIMATIQUE I



VUE AVANT



VUE ARRIÈRE



ELEVATION

