



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

Bid Receiving Public Works and Government
Services Canada/Réception des soumissions
Travaux publics et Services gouvernementaux
Canada

1713 Bedford Row

Halifax, N.S./Halifax, (N.É.)

B3J 1T3

Nova Scotia

Bid Fax: (902) 496-5016

INVITATION TO TENDER

APPEL D'OFFRES

**Tender To: Public Works and Government Services
Canada**

We hereby offer to sell to Her Majesty the Queen in right of
Canada, in accordance with the terms and conditions set
out herein, referred to herein or attached hereto, the goods,
services, and construction listed herein and on any attached
sheets at the price(s) set out therefor.

Soumission aux: Travaux Publics et Services Gouvernementaux Canada

Nous offrons par la présente de vendre à Sa Majesté la
Reine du chef du Canada, aux conditions énoncées ou
incluses par référence dans la présente et aux annexes
ci-jointes, les biens, services et construction énumérés
ici et sur toute feuille ci-annexée, au(x) prix indiqué(s).

Comments - Commentaires

Vendor/Firm Name and Address

Raison sociale et adresse du
fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution

Atlantic Region Acquisitions/Région de l'Atlantique
Acquisitions

1713 Bedford Row

Halifax, N.S./Halifax, (N.É.)

B3J 3C9

Nova Scot

Title - Sujet REHEATING COILS MV FUNDY ROSE	
Solicitation No. - N° de l'invitation T8010-150151/A	Date 2016-03-10
Client Reference No. - N° de référence du client T8010-15-0151	GETS Ref. No. - N° de réf. de SEAG PW-\$HAL-302-9805
File No. - N° de dossier HAL-5-75284 (302)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2016-03-31	
Time Zone Fuseau horaire Atlantic Daylight Saving Time ADT	
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: Gaudreau, Michel	Buyer Id - Id de l'acheteur hal302
Telephone No. - N° de téléphone (902) 496-5245 ()	FAX No. - N° de FAX (902) 496-5016
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DEPARTMENT OF TRANSPORT PLACE DE VILLE, TOWER C 330 SPARKS ST., 19TH FLOOR AIR & MARINE PROGRAMS (AHP) OTTAWA ONTARIO K1A0N5 Canada	

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée See Herein	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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PART 1 - GENERAL INFORMATION

1.1 Introduction

The bid solicitation is divided into seven parts plus attachments and annexes, as follows:

- Part 1 General Information: provides a general description of the requirement;
- Part 2 Bidder Instructions: provides the instructions, clauses and conditions applicable to the bid solicitation;
- Part 3 Bid Preparation Instructions: provides bidders with instructions on how to prepare their bid;
- Part 4 Evaluation Procedures and Basis of Selection: indicates how the evaluation will be conducted, the evaluation criteria that must be addressed in the bid, and the basis of selection;
- Part 5 Certifications: includes the certifications to be provided;
- Part 6 Security, Financial and Other Requirements: includes specific requirements that must be addressed by bidders; and
- Part 7 Resulting Contract Clauses: includes the clauses and conditions that will apply to any resulting contract.

The Annexes include the Statement of Work, the Basis of Payment, the Insurance Requirements, and any other annexes.

1.2 Summary

The Contractor must:

1.2.1 Supply and install reheat coils fitted to Air Handling Units (AHU) #2 and #7 on the MV Fundy Rose in accordance with the requirements of Annex "A".

1.2.2 carry out any approved unscheduled work not covered in the terms of reference of Annex A and associated technical documentation and drawings.

1.3 Debriefings

Bidders may request a debriefing on the results of the bid solicitation process. Bidders should make the request to the Contracting Authority within 15 working days from receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

PART 2 - BIDDER INSTRUCTIONS

2.1 Standard Instructions, Clauses and Conditions

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the *Standard Acquisition Clauses and Conditions Manual* (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

Bidders who submit a bid agree to be bound by the instructions, clauses and conditions of the bid solicitation and accept the clauses and conditions of the resulting contract.

The 2003 (2015-07-03) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

2.2 Submission of Bids

Bids must be submitted only to Public Works and Government Services Canada (PWGSC) Bid Receiving Unit by the date, time and place indicated on page 1 of the bid solicitation.

2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than five (5) calendar days before the bid closing date. Enquiries received after that time may not be answered.

Bidders should reference as accurately as possible the numbered item of the bid solicitation to which the enquiry relates. Care should be taken by bidders to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly marked "proprietary" at each relevant item. Items identified as "proprietary" will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the question(s) or may request that the Bidder do so, so that the proprietary nature of the question(s) is eliminated and the enquiry can be answered to all bidders. Enquiries not submitted in a form that can be distributed to all bidders may not be answered by Canada.

2.4 Applicable Laws

Any resulting contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Nova Scotia.

Bidders may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their bid, by deleting the name of the Canadian province or territory specified and inserting the name of the Canadian province or territory of their choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the bidders.

2.5 Work Period – Marine - Bid

Work must commence and be completed as follows:

Commence: at contract award;
Complete: no later than 9 weeks after award.

By submitting a bid, the Bidder certifies that they have sufficient material and human resources allocated or available and that the above work period is adequate to both complete the known work and absorb a reasonable amount of unscheduled work.

2.6 Project Schedule

As part of its technical bid, the Bidder must propose its preliminary project schedule, in Gantt chart format. The project schedule must include the Bidder's work breakdown structure, the scheduling of main activities and milestone events, and any potential problem areas involved in completing the Work.

2.7 Workers Compensation Certification- Letter of Good Standing

The Bidder must have an account in good standing with the applicable provincial or territorial Workers' Compensation Board.

The Bidder must provide, within two (2) days following a request from the Contracting Authority, a certificate or letter from the applicable Workers' Compensation Board confirming the Bidder's good standing account. Failure to comply with the request may result in the bid being declared non-responsive.

2.8 Welding Certification

1. Welding must be performed by a welder certified by the Canadian Welding Bureau (CWB) for the following Canadian Standards Association (CSA) standards:
 - a. CSA W47.1 (current version), Certification of Companies for Fusion Welding of Steel (Minimum Division Level 2.1);
 - b. CSA W47.2 (current version), Certification of Companies for Fusion Welding of Aluminum (Minimum Division Level 2.0).
2. Before contract award and within two (2) calendar days of the written request by the Contracting Authority, the successful Bidder must submit evidence demonstrating its or its subcontractor's certification by CWB in accordance with the CSA welding standards.

2.9 SAAC Manual Clauses

A7035T (2007-05-25) List of Proposed Sub-contractors
A9125T (2007-05-25) Valid Labour Agreement

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

Canada requests that bidders provide their bid in separately bound sections as follows:

Section I: Financial Bid (1 hard copy)
Section II: Certifications (1 hard copy)

Prices must appear in the financial bid only. No prices must be indicated in any other section of the bid. Canada requests that bidders follow the format instructions described below in the preparation of their bid:

- (a) use 8.5 x 11 inch (216 mm x 279 mm) paper;
- (b) use a numbering system that corresponds to the bid solicitation.

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process Policy on Green Procurement (<http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html>). To assist Canada in reaching its objectives, bidders should:

- 1) use 8.5 x 11 inch (216 mm x 279 mm) paper containing fibre certified as originating from a sustainably-managed forest and containing minimum 30% recycled content; and

- 2) use an environmentally-preferable format including black and white printing instead of colour printing, printing double sided/duplex, using staples or clips instead of cerlox, duotangs or binders.

Section I: Financial Bid

- 3.1.1** Bidders must submit their financial bid in accordance with the Financial Bid Presentation Sheet in Annex "F". The total amount of Applicable Taxes must be shown separately, if applicable.

3.1.2 SACC Manual Clauses

C0414T (2008-05-12) Vessel Refit, Repair or Docking – Cost
C0417T (2008-05-12) Unscheduled Work and Evaluation Price

Section II: Certifications

Bidders must submit the certifications required under Part 5.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

- (a) Bids will be assessed in accordance with the entire requirement of the bid solicitation including the financial evaluation criteria.
- (b) An evaluation team composed of representatives of Canada will evaluate the bids.

4.2 Basis of Selection

A bid must comply with all requirements of the bid solicitation to be declared responsive. The responsive bid with the lowest evaluated price will be recommended for award of a contract.

PART 5 - CERTIFICATIONS

Bidders must provide the required certifications and associated information to be awarded a contract.

The certifications provided by Bidders to Canada are subject to verification by Canada at all times. Canada will declare a bid non-responsive, or will declare a contractor in default if any certification made by the Bidder is found to be untrue, whether made knowingly or unknowingly, during the bid evaluation period or during the contract period.

The Contracting Authority will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply and to cooperate with any request or requirement imposed by the Contracting Authority may render the bid non-responsive or constitute a default under the Contract.

5.1 Certifications Required with the Bid

Bidders must submit the following duly completed certifications as part of their bid.

5.1.1 Declaration of Convicted Offences

As applicable, pursuant to subsection Declaration of Convicted Offences of section 01 of the Standard Instructions, the Bidder must provide with its bid, a completed [Declaration Form](http://www.tpsgc-pwgsc.gc.ca/ci-if/formulaire-form-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ci-if/formulaire-form-eng.html>), to be given further consideration in the procurement process.

5.2 Certifications Precedent to Contract Award and Additional Information

The certifications and additional information listed below should be submitted with the bid but may be submitted afterwards. If any of these required certifications or additional information is not completed and submitted as requested, the Contracting Authority will inform the Bidder of a time frame within which to provide the information. Failure to provide the certifications or the additional information listed below within the time frame specified will render the bid non-responsive.

5.2.1 Integrity Provisions – List of Names

Bidders who are incorporated, including those bidding as a joint venture, must provide a complete list of names of all individuals who are currently directors of the Bidder.

Bidders bidding as sole proprietorship, as well as those bidding as a joint venture, must provide the name of the owner(s).

Bidders bidding as societies, firms or partnerships do not need to provide lists of names.

5.2.2 Federal Contractors Program for Employment Equity - Bid Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "[FCP Limited Eligibility to Bid](http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml)" list (http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml) available from [Employment and Social Development Canada \(ESDC\) - Labour's](#) website.

Canada will have the right to declare a bid non-responsive if the Bidder, or any member of the Bidder if the Bidder is a Joint Venture, appears on the "[FCP Limited Eligibility to Bid](#)" list at the time of contract award.

5.2.3 Additional Certifications Precedent to Contract Award

- a. **Project Schedule**
- b. **Workers Compensation Certification- Letter of Good Standing**
- c. **List of Proposed Sub-contractors**
- d. **Valid Labour Agreement**

PART 6 - SECURITY, FINANCIAL AND OTHER REQUIREMENTS

6.1 Security Requirements

There is no security requirement associated with the requirement.

6.2 Financial Capability

SACC Manual clause [A9033T](#) (2012-07-16) Financial Capability

6.3 Insurance Requirements

The Bidder must provide a letter from an insurance broker or an insurance company licensed to operate in Canada stating that the Bidder, if awarded a contract as a result of the bid solicitation, can be insured in accordance with the Insurance Requirements specified in Annex C.

If the information is not provided in the bid, the Contracting Authority will so inform the Bidder and provide the Bidder with a time frame within which to meet the requirement. Failure to comply with the request of the Contracting Authority and meet the requirement within that time period will render the bid non-responsive.

PART 7 - RESULTING CONTRACT CLAUSES

The following clauses and conditions apply to and form part of any contract resulting from the bid solicitation.

7.1 Requirement

The Contractor must:

7.1.1 Supply and install reheat coils fitted to Air Handling Units (AHU) #2 and #7 on the MV Fundy Rose in accordance with the requirements of Annex "A".

7.1.2 carry out any approved unscheduled work not covered in the terms of reference of Annex A and associated technical documentation and drawings.

7.2 Standard Clauses and Conditions

All clauses and conditions identified in the Contract by number, date and title are set out in the [Standard Acquisition Clauses and Conditions Manual](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual)(<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

7.2.1 General Conditions

[2030 \(2015-07-03\)](#), General Conditions - Higher Complexity - Goods, apply to and form part of the Contract.

7.2.2 Supplemental General Conditions

1029 (2010-08-16) Ship Repairs, apply to and form part of the Contract.

7.3 Security Requirements

There is no security requirement applicable to this Contract.

7.4 Term of Contract

7.4.1 Work Period – Marine – Contract

Work must commence and be completed as follows:

Commence: at contract award;

Complete: no later than 9 weeks after award.

The Contractor certifies that they have sufficient material and human resources allocated or available and that the above work period is adequate to both complete the known work and absorb a reasonable amount of unscheduled work.

7.5 Authorities

7.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Michel Gaudreau
Supply Specialist
Public Services and Procurement Canada
1713 Bedford Row,
Halifax, Nova Scotia

Telephone: (902) 483-0823
Facsimile: (902) 496-5016
E-mail address: Michel.Gaudreau2@pwgsc-tpsgc.gc.ca

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

7.5.2 Project Authority

The Project Authority for the Contract is:

Clifford Harvey
Fleet Manager
Air and Marine Programs
Transport Canada

Telephone: (506) 851-4980
E-mail Address: Clifford.harvey@tc.gc.ca

The Project Authority is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Project Authority; however, the Project Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

7.6 Payment

7.6.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm price as specified in Annex "B". Customs duties are included and Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

Canada will not pay the Contractor for any design changes, modifications or interpretations of the Work, unless they have been approved, in writing, by the Contracting Authority before their incorporation into the Work.

7.6.2 Limitation of Price

SACC Manual clause C6000C (2011-05-16) Limitation of Price

7.7 Invoicing Instructions

The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed. Invoices are to be made out to:

Transport Canada
Air & Marine Programs (AHP)
330 Sparks Street, 19th floor
Place de Ville, Tower C
Ottawa, ON
K1A 0N5

Attention: Alain Sylvestre

7.8 Project Schedule

The Contractor must provide a detailed project schedule in Gantt chart format to the Contracting Authority and the Project Authority one (1) week after award of Contract. The project schedule must include the work breakdown structure, the scheduling of main activities and milestone events, and any potential problem areas involved in completing the Work.

7.9 Meetings

Progress meetings, chaired by the Contracting Authority, will take place at the Contractor's facility as and when required, generally once a month. Interim meetings may also be scheduled. Contractor's attendees at these meetings will, as a minimum, be its Contract (Project) Manager, Production Manager (Superintendent) and Quality Assurance Manager. Progress meetings will generally incorporate technical meetings to be chaired by the Technical Authority.

7.10 Welding Certification

The Contractor must ensure that welding is performed by a welder certified by the Canadian Welding Bureau (CWB) for the following Canadian Standards Association (CSA) standard(s):

- a. CSA W47.1 (current version), Certification of Companies for Fusion Welding of Steel (Minimum Division Level 2.1);
- b. CSA W47.2 (current version), Certification of Companies for Fusion Welding of Aluminum (Minimum Division Level 2.0).

In addition, welding must be done in accordance with the requirements of the applicable drawings and specifications.

Before the commencement of any fabrication work, and upon request from the Inspection Authority, the Contractor must provide approved welding procedures and/or a list of welding personnel they intend to use in the performance of the Work. The list must identify the CWB welding procedure qualifications attained by each of the personnel listed and must be accompanied by a copy of each person's current CWB certification to CSA welding standards.

7.11 Inspection and Acceptance

The Technical Authority is the Inspection Authority. All reports, deliverable items, documents, goods and all services rendered under the Contract are subject to inspection by the Inspection Authority or representative. Should any report, document, good or service not be in accordance with the requirements of the Statement of Work and to the satisfaction of the Inspection Authority, as submitted, the Inspection Authority will have the right to reject it or require its correction at the sole expense of the Contractor before recommending payment.

7.12 Outstanding Work and Acceptance

The Inspection Authority, in conjunction with the Contractor, will prepare a list of outstanding work items at the end of the work period. This list will form the annexes to the formal acceptance document for the vessel. A contract completion meeting will be convened by the Inspection Authority on the work completion date to review and sign off the form PWGSC-TPSGC 1205, Acceptance. In addition to any amount held under the Warranty Holdback Clause, a holdback of twice the estimated value of outstanding work will be held until that work is completed.

The Contractor must complete the above form in three (3) copies, which will be distributed by the Inspection Authority as follows:

- a. original to the Contracting Authority;
- b. one copy to the Technical Authority;
- c. one copy to the Contractor.

7.13 Vessel Warranty – Refit and Repair

The warranty clause of the general conditions forming part of the Contract is deleted and replaced by the following:

"08 Warranty"

The Contractor, if requested by Canada, must replace or repair at its own expense any finished work, excluding Government Issue incorporated in the Work, which becomes defective or which fails to conform to contract requirements as a result of faulty or inefficient manufacture, material or workmanship.

Despite acceptance of the finished work, and without restricting any other term of the Contract or any condition, warranty or provision imposed by law, the Contractor warrants that the following will be free from all defects and will conform with the requirements of the Contract:

The painting of the underwater portion of the hull for a period of 365 days commencing from the date of undocking, except that the Contractor will only be liable to repair and/or replace to a value to be determined as follows:

Original cost to Canada of the underwater painting work, divided by 365 days and multiplied by the number of days remaining in the warranty period. The resultant sum would represent the "Dollar Credit" due to Canada from the Contractor.

All other painting work for a period of 365 days commencing from the date of acceptance of the Work;

All other items of work for a period of ninety (90) days commencing from the date of acceptance of the Work, except that:

the warranty on the work related to any system or equipment not immediately placed in continuous use or service will be for a period of ninety (90) days from the date of acceptance of the vessel;

for all outstanding defects, deviations, and work items listed on the Acceptance Document at Delivery, the warranty will be ninety (90) days from the subsequent date of acceptance for each item.

The Contractor agrees to pass to Canada, and exercise on behalf of Canada, all warranties on the materials supplied or held by the Contractor which exceed the periods indicated above.

Refer to Annex "D" for Warranty Defect Claim Procedures and forms.

7.14 Warranty – Contractor responsible for all costs

Section 22 entitled Warranty of general conditions 2030 is amended by deleting subsections 3 and 4 in its entirety and replacing it with the following:

The Work or any part of the Work found to be defective or non-conforming will be returned to the Contractor's plant for replacement, repair or making good. However, when in the opinion of Canada it is not expedient to remove the Work from its location, the Contractor must carry out any necessary repair or making good of the Work at that location. In such cases, the Contractor will be responsible for all Costs (including travel and living expenses) incurred in so doing, Canada will not reimburse these Costs.

The Contractor must pay the transportation cost associated with returning the Work or any part of the Work to the Contractor's plant pursuant to subsection 3. The Contractor must also pay the transportation cost associated with forwarding the replacement or returning the Work or part of the Work when rectified to the delivery point specified in the Contract or to another location directed by Canada.

All other provisions of the warranty section remain in effect.

7.15 Certifications

7.15.1 Compliance

The continuous compliance with the certifications provided by the Contractor in its bid and the ongoing cooperation in providing associated information are conditions of the Contract. Certifications are subject to verification by Canada during the entire period of the Contract. If the Contractor does not comply with any certification, fails to provide the associated information, or if it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

7.15.2 SACC Manual Clauses

A0285C (2007-05-25)	Workers Compensation
A9047C (2008-05-12)	Title to Property – Vessel
A9006C (2012-07-16)	Defence Contract
B5007C (2010-01-11)	Procedures for Design Change or Additional Work
B9014C (2013-04-25)	Outstanding Work and Acceptance – Civilian
B9035C (2008-05-12)	Progress Meetings
A0032C (2011-05-06)	Vessel Manned Refits
A0290C (2008-05-12)	Hazardous Waste – Vessels
A9055C (2010-08-16)	Scrap and Waste Material
A9068C (2010-01-11)	Government Site Regulations

7.16 Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in _____.

7.17 Priority of Documents

If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.

- (a) the Articles of Agreement;
- (b) the supplemental general conditions 1029 (2010-08-16);
- (c) the general conditions 2030 (2015-07-03);
- (d) Annex A, Statement of Work;
- (e) Annex B, Basis of Payment;
- (f) Annex F, Financial Bid Presentation Sheet;
- (g) Annex C, Insurance Requirements;
- (h) the Contractor's bid dated _____.

7.18 Insurance

The Contractor must comply with the insurance requirements specified in Annex C. The Contractor must maintain the required insurance coverage for the duration of the Contract. Compliance with the insurance requirements does not release the Contractor from or reduce its liability under the Contract.

The Contractor is responsible for deciding if additional insurance coverage is necessary to fulfill its obligation under the Contract and to ensure compliance with any applicable law. Any additional insurance coverage is at the Contractor's expense, and for its own benefit and protection.

The Contractor must forward to the Contracting Authority within ten (10) days after the date of award of the Contract, a Certificate of Insurance evidencing the insurance coverage and confirming that the insurance policy complying with the requirements is in force. Coverage must be placed with an Insurer licensed to carry out business in Canada. The Contractor must, if requested by the Contracting Authority, forward to Canada a certified true copy of all applicable insurance policies.

ANNEX “A” - STATEMENT OF WORK

The entire Statement of Work is attached to this solicitation document.

ANNEX "B" - BASIS OF PAYMENT

Remark to Bidder: Annex B will form the Basis of Payment for the resulting contract and should not be filled in at the bid submission stage. Refer to Annex F "Financial Bid Presentation Sheet".

1. Contract Price

a)	Known Work For work as stated in Part 1, Specified in Annex "A" and associated documents and drawings for a FIRM PRICE of:	\$ _____
d)	HST Estimated at (_ %) of Line a) only	\$ _____
e)	Total Firm Price HST Included: For a FIRM PRICE of :	\$ _____

2. Unscheduled Work

2.1 Price Breakdown:

The Contractor must, upon request, provide a price breakdown for all unscheduled work, by specific activities with trades, person-hours, material, subcontracts and services.

2.2 Pro-rated Prices:

Hours and prices for unscheduled work will be based on comparable historical data applicable to similar work at the same facility, or will be determined by pro-rating the quoted work costs in the Contract when in similar areas of the vessel.

2.3 Payment for Unscheduled Work:

The Contractor will be paid for unscheduled work arising, as authorized by Canada. The authorized unscheduled work will be calculated as follows:

Number of hours (to be negotiated) x \$ _____, being the Contractor's firm hourly charge-out labour rate which includes overhead and profit, plus net laid-down cost of materials to which will be added a mark-up of 10 percent, plus Goods and Services Tax or Harmonized Sales Tax, if applicable, calculated at _____ percent of the total cost of material and labour. The firm hourly charge-out labour rate and the material mark-up will remain firm for the term of the Contract and any subsequent amendments.

C0902C (2008-12-12)

ANNEX "C" INSURANCE REQUIREMENTS

C1 Ship Repairers' Liability Insurance

The Contractor must obtain Ship Repairer's Liability Insurance and maintain it in force throughout the duration of the Contract, in an amount usual for a contract of this nature, but for not less than \$10,000,000 per accident or occurrence and in the annual aggregate.

The Ship Repairer's Liability insurance must include the following:

Additional Insured: Canada is added as an additional insured, but only with respect to liability arising out of the Contractor's performance of the Contract. The interest of Canada as additional insured should read as follows: Canada, represented by Public Works and Government Services Canada.

Waiver of Subrogation Rights: Contractor's Insurer to waive all rights of subrogation against Canada as represented by Department of Fisheries and Oceans and Public Works and Government Services Canada for any and all loss of or damage to the vessel, however caused.

Notice of Cancellation: The Insurer will endeavour to provide the Contracting Authority thirty (30) days written notice of cancellation.

Contractual Liability: The policy must, on a blanket basis or by specific reference to the contract, extend to assumed liabilities with respect to contractual provisions.

Cross Liability/Separation of Insureds: Without increasing the limit of liability, the policy must protect all insured parties to the full extent of coverage provided. Further, the policy must apply to each Insured in the same manner and to the same extent as if a separate policy had been issued to each.

G5001C (2008-05-12)

C2 Commercial General Liability Insurance

The Contractor must obtain Commercial General Liability Insurance, and maintain it in force throughout the duration of the Contract, in an amount usual for a contract of this nature, but for not less than \$2,000,000 per accident or occurrence and in the annual aggregate.

The Commercial General Liability policy must include the following:

Additional Insured: Canada is added as an additional insured, but only with respect to liability arising out of the Contractor's performance of the Contract. The interest of Canada should read as follows: Canada, as represented by Public Works and Government Services Canada.

Bodily Injury and Property Damage to third parties arising out of the operations of the Contractor.

Products and Completed Operations: Coverage for bodily injury or property damage arising out of goods or products manufactured, sold, handled, or distributed by the Contractor and/or arising out of operations that have been completed by the Contractor.

Personal Injury: While not limited to, the coverage must include Violation of Privacy, Libel and Slander, False Arrest, Detention or Imprisonment and Defamation of Character.

Cross Liability/Separation of Insureds: Without increasing the limit of liability, the policy must protect all insured parties to the full extent of coverage provided. Further, the policy must apply to each Insured in the same manner and to the same extent as if a separate policy had been issued to each.

Blanket Contractual Liability: The policy must, on a blanket basis or by specific reference to the Contract, extend to assumed liabilities with respect to contractual provisions.

Employees and, if applicable, Volunteers must be included as Additional Insured.

Employers' Liability (or confirmation that all employees are covered by Worker's compensation (WSIB) or similar program)

Broad Form Property Damage including Completed Operations: Expands the Property Damage coverage to include certain losses that would otherwise be excluded by the standard care, custody or control exclusion found in a standard policy.

Notice of Cancellation: The Insurer will endeavour to provide the Contracting Authority thirty (30) days written notice of policy cancellation.

If the policy is written on a claims-made basis, coverage must be in place for a period of at least 12 months after the completion or termination of the Contract

G2001C (2008-05-12)

C3 Limitation of Contractor's Liability for Damages to Canada

This section applies despite any other provision of the Contract and replaces the section of the general conditions entitled "Liability". Any reference in this section to damages caused by the Contractor also includes damages caused by its employees, as well as its subcontractors, agents, and representatives, and any of their employees.

Whether the claim is based in contract, tort, or another cause of action, the Contractor's liability for all damages suffered by Canada caused by the Contractor's performance of or failure to perform the Contract is limited to \$10,000,000.00 . This limitation of the Contractor's liability does not apply to:

any infringement of intellectual property rights; or

any breach of warranty obligations

Each Party agrees that it is fully liable for any damages that it causes to any third party in connection with the Contract, regardless of whether the third party makes its claim against Canada or the Contractor. If Canada is required, as a result of joint and several liability, to pay a third party in respect of damages caused by the Contractor, the Contractor must reimburse Canada for that amount.

N0001C (2008-05-12)

ANNEX “D”– WARRANTY DEFECT CLAIM PROCEDURES AND FORMS

Warranty Procedures

1. Scope

a. The following are the procedures, which suit the particular requirements for warranty considerations for a vessel on completion of a refit.

2. Definition

There are a number of definitions of “warranty” most of which are intended to describe its force and effect in law. One such definition is offered as follows:

“A warranty is an agreement whereby the vendor’s or manufacturer’s responsibility for performance of its product is extended for a specific period of time beyond the date at which the title to the product passes to the buyer.”

3. Warranty Conditions

a. 2030 General Conditions - Higher Complexity - Goods are augmented by clauses incorporated into the subject Contract.

b. The warranty periods may be stated in more than one part:

i. 90 days commencing from the day the PWGSC 1205 Acceptance Document is signed for workmanship provided by the contractor for the refit work specified;

ii. 365 days from the date of acceptance for the specified areas of painting;

iii. 365 days commencing from the day the PWGSC 1205 Acceptance Document is signed for parts and material provided by the contractor for the refit work specified;

iv. Any other specific warranty periods that may be required in the contract or offered by the Contractor.

c. The foregoing does not cover the disposition of other deficiencies that will be directly related to Technical Authority problem areas of the following nature:

i. items becoming unserviceable that were not included in the refit specification;

ii. refit specifications or other related documentation requiring amendments or corrections to increase viability; and

iii. work performed that is directly related to the Technical Authority.

4. Reporting Failures With Warranty Potential

a. The initial purpose of a report of a failure is to facilitate the decision as to whether or not to involve warranty and to generate action to effect repairs. Therefore in addition to identification, location data, etc. the report must contain details of the defect. Warranty decisions as a general rule are to be made locally and the administrative process is to be in accordance with procedures as indicated.

b. These procedures are necessary as invoking a warranty does not simply mean that the warrantor will automatically proceed with repairs at his expense. A review of the defect may well result in a disclaimer of responsibility, therefore, it is imperative that during such a review the Department is directly

represented by competent technical authority qualified to agree or disagree with the warrantor's assertions.

5. Procedures

a. Immediately it becomes known to the Ship's Staff that an equipment/system is performing below accepted standards or has become defective, the procedures for the investigation and reporting are as follows:

i. The vessel advises the Technical Authority when a defect, which is considered to be directly associated the refit work, has occurred.

ii. On review of the Specification and the Acceptance Document, the Technical Authority in consort with Ship's Staff is to complete the Tombstone Data and section 1 of the Warranty Claim Form attached and forward the original to the Contractor for review with a copy to the PWGSC contracting Authority. If the PWGSC Contracting or Inspection Authority is unable to support warranty action, the Defect Claim Form will be returned to the originator with a brief justification. (It is to be noted that in the latter instance PWGSC will inform the Contractor of its decision and no further action will be required of the Contractor.

Warranty defect claims may be forwarded in hard copy, by fax or by e-mail whichever format is the most convenient.

iii. Assuming the Contractor accepts full responsibility for repair, the Contractor completes Section 2 and 3 of the Warranty Claim Form, returns it to the Inspection Authority who confirms corrective action has been completed, and who then distributes the form to the Technical Authority and the PWGSC Contracting Authority.

b. In the event that the Contractor disputes the claim as a warranty defect, or agrees to share, the contractor is to complete Part 2 of the Warranty Claim Form with the appropriate information and forward it to the Contracting Authority who will distribute copies as necessary.

c. When a warranty defect claim is disputed by the Contractor, the Technical Authority may arrange to correct the defect by in-house resources or by contracting the work out. All associated costs must be tracked and recorded as a possible charge against the contractor by PWGSC action. Material costs and man-hours expended in correcting the defect are to be recorded and entered in Section 5 of the warranty defect claim by the Technical Authority who will forward the warranty defect claim to the PWGSC Contracting Authority for action. Defective parts of equipment are to be retained pending settlement of claim.

d. Defective equipment associated with potential warranty should not normally be dismantled until the contractor's representative has had the opportunity to observe the defect. The necessary work is to be undertaken through normal repair methods and costs must be segregated as a possible charge against a contractor by PWGSC action.

6. Liability

a. Agreement between the Contracting Authority, Inspection Authority, Technical Authority and the Contractor will result in one of the following conditions:

i. The contractor accepts full responsibility for costs to repair or overhaul under the warranty provisions of the contract;

ii. The Technical Authority accepts full responsibility for repair and overhaul of item concerned;
or

iii. The Contractor and the Technical Authority agree to share responsibility for the costs to repair or overhaul the unserviceable item, in such cases the PWGSC Contracting Authority will negotiate the best possible sharing arrangement.

b. In the event of a disagreement as in paragraph 5c, PWGSC will take necessary action with the contractor while the Technical Authority informs its Senior Management including pertinent data and recommendations.

c. The total cost of processing warranty claims must include accommodation and travel costs of the contractor's employees as well as equipment/system down time and operational constraints. Accordingly, the cost to remediate the defect, in man-hours and material, will be discussed between the Contracting/Inspection Authorities and the Technical Authority to determine the best course of action.

7. Alongside Period For Warranty Repairs and Checks


a. If at all possible, an alongside period for the vessel is to be arranged just before the expiration of the 90 day warranty period. This alongside period is to provide time for warranty repair and check by the contractor.

Public Works and Government
Services Canada

Travaux publics et Services
gouvernementaux Canada

Warranty Claim Réclamation De Garantie

Vessel Name – Nom de navire	File No. – N° de dossier	Contract No. - N ° de contrat
Customer Department – Ministère client	Warranty Claim Serial No. Numéro de série de réclamation de garantie	
Contractor – Entrepreneur	Effect on Vessel Operations Effet sur des opérations de navire <div> <div>Critical operational</div> <div>Degraded</div> <div>Operational</div> <div>Non-</div> </div> <div> <div>Critique opérationnel</div> <div>Dégradé</div> <div>Opérationnel</div> <div>Non-</div> </div>	
1. Description of Complaint – Description de plainte		
<div> <div>Contact Information – l'information de contact</div> <div> <div>Name – Nom</div> <div>Tel. No. - N ° Tél</div> </div> <div> <div>Signature – Signature</div> <div>Date</div> </div> </div>		
2. Contractor's Investigative Report – Le rapport investigateur de l'entrepreneur		

3. Contractor's Corrective Action – La modalité de reprise de l'entrepreneur	
<div style="border-bottom: 1px solid black; margin-bottom: 5px;"></div> <div style="display: flex; justify-content: space-between;"> Contractor's Name and Signature – Nom et signature de l'entrepreneur reprise Date of Corrective Action - Date de modalité de </div>	<div style="border-bottom: 1px solid black; margin-bottom: 5px;"></div> <div style="text-align: right;">Date</div>
4. PWGSC Review of Warranty Claim Action – Examen d'action de réclamation de garantie par TPSGC	
<div style="border-bottom: 1px solid black; margin-bottom: 5px;"></div> <div style="text-align: center;">Signature – Signature</div>	<div style="border-bottom: 1px solid black; margin-bottom: 5px;"></div> <div style="text-align: center;">Date</div>
5. Additional Information – Renseignements supplémentaires	
	
PWGSC-TPSGC	

ANNEX “E” - INTEGRITY PROVISIONS – LIST OF NAMES (Ref Clause 5.2.1)

Failure to provide the following information will render the bid non-responsive.

Complete Legal Name of Supplier: _____

Supplier Address: _____

Supplier PBN: _____

Solicitation Number: T8010-150151/A

List of Directors:

Please provide a list of names of all individuals currently on the Board of Directors of the above company.

Name	Position

Attach additional names on a separate sheet if required.

ANNEX "F" FINANCIAL BID PRESENTATION SHEET

Proposed Work Period Location: Saint John, New Brunswick & Sea Transit

1. Evaluation of Price

a)	Known Work For work as stated in Part 1, specified in Annex "A" and associated documents and drawings for a FIRM PRICE of:	\$ _____
b)	Unscheduled Work Estimated labour hours at a firm Charge-out Labour Rate, including overhead and profit: 100 person hours X \$ _____ per hour for a PRICE of:	\$ _____
c)	EVALUATION PRICE HST Excluded, [a + b]: For an EVALUATION PRICE of :	\$ _____

2. Unscheduled Work

2.1 Price Breakdown:

The Contractor must, upon request, provide a price breakdown for all unscheduled work, by specific activities with trades, person-hours, material, subcontracts and services.

2.2 Pro-rated Prices:

Hours and prices for unscheduled work will be based on comparable historical data applicable to similar work at the same facility, or will be determined by pro-rating the quoted work costs in the Contract when in similar areas of the vessel.

2.3 Payment for Unscheduled Work:

The Contractor will be paid for unscheduled work arising, as authorized by Canada. The authorized unscheduled work will be calculated as follows:
Number of hours (to be negotiated) x \$ _____, being the Contractor's firm hourly charge-out labour rate which includes overhead and profit, plus net laid-down cost of materials to which will be added a mark-up of 10 percent, plus Goods and Services Tax or Harmonized Sales Tax, if applicable, calculated at _____ percent of the total cost of material and labour. The firm hourly charge-out labour rate and the material mark-up will remain firm for the term of the Contract and any subsequent amendments.

C0902C (2008-12-12)

2.4 Overtime

No overtime work will be compensated for under the Contract unless authorized in advance and in writing by the Contracting Authority. Any request for payment must be accompanied by a copy of the overtime authorization and a report containing such details as Canada may require with respect to the overtime work performed. Compensation for authorized overtime will be calculated by taking the average hourly direct labour rate premiums, plus certified fringe benefit additives, plus profit of 7 1/2 percent on labour premium and fringe benefits. These rates will remain firm for the duration of the Contract including all amendments and are subject to audit if deemed necessary by Canada.

Annex A

Statement of Work

Replacement of the HVAC Reheating System Coils AHU #2 & AHU #7

MV Fundy Rose

1 Background

- 1.1 The Fundy Rose is a ROPAX vessel built in 2000 and formerly named the Blue Star Ithaki. The vessel is owned by Transport Canada and operated by Bay Ferries Ltd. The vessel operates on a year round basis between the ports of Digby, Nova Scotia and Saint John, New Brunswick.
- 1.2 The vessel is heated using a thermal fluid to hot water system. The HVAC systems consist of eight (8) AHU's of which two (2) are fitted with separate reheating coils serviced by their own pumps and heat exchanger. These two (2) reheating system coils are in a corroded condition and are inefficient and becoming unreliable.

2 Scope

- 2.1 The contractor is to properly isolate the associated systems, and remove and dispose of the existing reheat coils fitted to Air Handling Units (AHU) #2 and #7. Following which, the contractor is to fabricate/supply, install, and test, replacement reheat coils that will meet or exceed the requirements stipulated.
- 2.2 The amount of time between when the coils are removed, and the new are returned and are in service is to be kept to a minimum.
- 2.3 Work is to be completed within 9 weeks of contract award.

3 Requirements/Description of Work

- 3.1 The contractor is to undertake all the work, supply all labour, and materials to permit the efficient removal and replacement of the affected reheating coils. The existing reheat coils identified for replacement are constructed of copper and aluminum and permit the transfer of hot water to air coil units installed in AHU#2 and AHU #7.

Annex A

Statement of Work

Replacement of the HVAC Reheating System Coils AHU #2 & AHU #7

MV Fundy Rose

- 3.1.1 AHU #2 is located on is located in Air Handling Compartment #2 on Deck #8, vessels centreline frame 80 – 90, starboard side. This compartment is accessed via the Laundry Room alleyway.
- 3.1.2 AHU #7 is located is located in Air Handling Compartment #4 on Deck #7, vessels centreline frame 33 – 39. This compartment is accessed via the exterior bar / pantry.
- 3.1.3 The reheating water system equipment is located in the AC Plant Room on Deck #2, frame 105 – 114. The reheat equipment housed in this compartment consists of two (2) centrifugal circulating pumps (7.23 m³/hr, 5 kg/cm²), one (1) 50 liter expansion tank, one (1) air trap, and one (1) 165.4 Kw heat exchanger (thermal fluid/hot water).
- 3.1.4 The details / size of the heating coils are contained within Appendix 1 and are believed to be accurate.
- 3.2 The contractor is to isolate the associated systems, and remove and dispose of the existing reheat coils located in AHU#2 and AHU#7 from the AHU's enclosures. The two reheating system coils are to be removed ashore and discarded.
- 3.3 The internal fixtures/appliances in the AHU's enclosures associated with the reheating system coils such as drip trays and drier vanes are to be repaired or replaced as required.
- 3.4 The automatic flow control valves and actuating mechanism associated with the two reheating system coils are to be replaced with new. These valves are to be proved to be operational as part of the system test procedure. The specifications for these valves are included in Appendix 2.
- 3.5 After removal, the contractor is to ensure that any pipes, flanges, or airways associated with the system are properly isolated and locked out. As soon as possible following the removal, the contractor is to install and test the replacement reheat coils as per the original installation, with new contractor supplied gasket material. Technical requirements of the coils are as follows:
 - Replacement reheat coils are to be as per original installation. That is copper tubes with aluminum fins housed in galvanized steel frames.
 - The replacement reheat coils are to have drain screws and vents.
 - The maximum working pressure is 10 bar and the maximum working temperature 100°C.
 - The normal operating pressure is 4 Kg/cm³ and the normal operating temperature is 60 to 80 °C.

Annex A

Statement of Work

Replacement of the HVAC Reheating System Coils AHU #2 & AHU #7

MV Fundy Rose

- The replacement reheating system coils are to have DN32 flange connections to match the as fitted piping.
 - The reheat system flow is approximately 3.6 m³/hr.
- 3.6 The contractor is responsible for supplying and installing replacement anti-freeze removed during the removal and installation of the reheat coils. The mixture to be utilized in the water/glycol fluid mixture after installation of the new reheating system coils is to be Diversitech PG Plus 5 Prop Glycol heat transfer fluid or equivalent. The heat transfer fluid is to be non-toxic with a food grade corrosion inhibitor (-50°C freeze protection, -73°C burst protection).
- 3.7 All insulation on pipe work disturbed during this removal and installation work is to be replaced using new material.
- 3.8 All work areas are to be thoroughly cleaned and restored to the as found condition.
- 3.9 Following installation, the system is to be tested and verified for correct operation to the satisfaction of the Technical Authority and the vessel's chief engineer.

4 Experience

- 4.1 The contractor must demonstrate that it has successfully completed at least three (3) similar projects in the last five (5) years for vessels greater than 5000GT. The objective evidence for this may be in the form of reference letters from the clients.
- 4.2 The contractor must provide evidence that they have in place a Quality Management System registered to ISO 9001:2008 or a Quality Management System modeled on ISO 9001:2008 which is to include:
- if registered, a valid ISO 9001:2008 certification Engineering and Project Management and Manufacturing
 - an example of the Quality Control Plan (QCP) as applied on previous projects of the same nature and complexity of this RFP

5 WORK PLAN

- 5.1 The contractor's professional experience and expertise are to be used to develop a work plan of sufficient detail to provide a clear indication of the time and scheduled required to undertake the design, installation and commissioning of the heat tracing circuits. The proposed work plan must be included in the bid/proposal and must identify the team members with accompanying resumes.

Annex A

Statement of Work

Replacement of the HVAC Reheating System Coils AHU #2 & AHU #7 MV Fundy Rose

5.2 The contractor shall demonstrate a preliminary planning and scheduling strategy which will indicate in working days the duration of each of the following activities:

- Removal of existing two (2) reheat system coils
- Fabrication/supply of two (2) new reheat system coils
- Installation of the new reheat system coils
- Testing, flushing and recharge of the reheat system
- Warranty period (acceptance day + 1 year)

6 References

6.1 Vessel Particulars

Vessel Particulars – MV Fundy Rose	
Length OA	Approximately 123.8 meters
Length BP	(at 5.1 WL) 117 meters
Length WL	(at 5.1 WL) 122.7 meters
Breadth (Moulded)	18.9 meters
Depth, Main Deck (Moulded)	7.25 meters
Depth, Upper Deck (Moulded)	12.25 meters
Draft, design (Moulded)	4.9 meters
Draft, scantling (Moulded)	5.1 meters
Service Speed	23.9 knots
Classification	DNV-GL 1A1 RoPax
Passengers Maximum	700
Cars & Trailers	Main Deck (Trailers or Cars) 21 or 105 units Upper Deck (Cars) 94 units
Ship Builder	Daewoo Heavy Industries, Hull#7504
Year Built	2000
Keel Laid	15/07/1999
IMO#	9203916
DWT	1978
GRT	4987.23
NRT	3119.45
Electrical Distribution System	380/220 VAC, 3 Phase, 50 hz

Annex A

Statement of Work

Replacement of the HVAC Reheating System Coils AHU #2 & AHU #7 MV Fundy Rose

6.2 TC shall make available to the contractor the following documentation and drawings.

Drawing Number	Drawing Name
7504DA722P002	Piping Dia of Chilled Water & Heating System
7504DA841P001	P/D of Thermal Heating System
	GA BSI Upper Decks Rev G - 2007

7 Responsibilities of the Contractor/Responsibilities of TC

- 7.1 The contractor is to provide proof of public liability insurance, Worker's Compensation Insurance and pollution insurance with the understanding that the POA is in the care, custody and control of the contractor for solely for the purpose of storage.
- 7.2 The contractor shall be required to actively participate in the overall management of all activities related to the installation of heat tracing systems on board the MV Fundy Rose. The contractor shall be directly responsible for the effective supervision and coordination of the efforts of their personnel in order to minimize the level of effort required by TC or Bay Ferries Limited staff.
- 7.3 The contractor shall be responsible for all work produced under the contract including adherence to all relevant DNVGL and Transport Canada Marine Safety regulations and requirements, environmental regulations, health and safety regulations, rules and good marine engineering.
- 7.4 The contractors must demonstrate that all engineering, parts etc. of the systems can be delivered to the vessel on or before 9 weeks after contract award.
- 7.5 The contractors must demonstrate that all required personnel for the demolition and installation of the new reheat system coils can be on site and ready to commence work immediately after contract award.
- 7.6 Contractors must demonstrate evidence of experience in and qualifications in Marine (Offshore) HVAC work.
- 7.7 The contractor personnel shall make all necessary preparations in order to actively participate in any meetings convened by the Technical Authority.
- 7.8 All meetings will be conducted at facilities provided by TC or any third party, unless otherwise requested by the Technical Authority. In the latter case, the meeting will be conducted in the contractor's facility and the contractor shall provide all facilities, resources, etc. at no additional cost to the Government of Canada.

Annex A

Statement of Work

Replacement of the HVAC Reheating System Coils AHU #2 & AHU #7 MV Fundy Rose

- 7.9 The contractor shall maintain a history of all meetings as well as of all incremental changes to action items and submit it to the Technical Authority when requested.
- 7.10 The contractors must demonstrate a duration and cost estimate in the format of the Pricing Plan Sheet for the following activities:
- 7.11 Disconnection and removal of the two (2) existing reheat system coils
- 7.12 Fabrication/supply of the two (2) new reheat system coils.
- 7.13 Installation, testing, flushing and recharge (with glycol) and set to work.
- 7.14 The contractor is responsible to ensure that their proposal includes all costs and level of effort required for the engineering, all shop production and testing, delivery of the new reheat coils, parts, piping, components, materials, specifications, development of demolition (strip out) all above while conforming to the requirements of all regulatory bodies.
- 7.15 All travel related costs will be borne by the contractor and included in the bid price. The Fundy Rose is presently in operation between the ports of Digby, Nova Scotia and St. John, New Brunswick.
- 7.16 All work is to be conducted on site. TC will not provide office space or work accommodations for the contractor, however there will be deck space provided for the storage and securing of work materials for the duration of the work onboard
- 7.17 Following a contract award, the Government of Canada will not consider any requests to amend the contract basis of payment to allow the contractor to recover any costs associated with a change in location of where the services are provided.
- 7.18 TC shall support the contractor to aid in the provision of the required services, the following information materials and assistance will be provided if available and deemed appropriate by the TA:
 - All required and available documents, certificates, drawings and diagrams related to the Fundy Rose
 - Access to the vessel to plan and perform the required work.

8 Security

- 8.1 The work undertaken and any subsequent documentation from this work will not relate to or result in sensitive or protected information.

Annex A

Statement of Work

Replacement of the HVAC Reheating System Coils AHU #2 & AHU #7 MV Fundy Rose

9 Imposed Constraints

- 9.1 The personnel of the contractor providing the services shall be independent of direct control by servants of Canada and are not in any respect employees of servants of Canada.
- 9.2 During the performance of the contract, the contractor and the contractor's personnel shall not direct any departmental organization or any personnel of any third parties with whom Canada has or intends to contract to perform any action.
- 9.3 Proprietary financial and technical information may be provided to the contractor personnel in the performance of the services if the 'Non-disclosure Agreement' contained in the Request for Proposal is duly executed by the contractor personnel.
- 9.4 All drawings, reports, data, documents or other material provided to the contractor by the Government of Canada remains the property of Canada and will be used solely in support of this requirement. The contractor is to safeguard the preceding information and materials from unauthorized use and must not release them to any third party, person or agency without the express written permission of the TA. Such information and material must be returned to the TA upon completion of the services of when requested by the TA.
- 9.5 All correspondence, either initiated by the contractor personnel or by any section of the TC, must be submitted to the TA. Correspondence is defined as records of conversations or decisions as well as any written correspondence in any format.
- 9.6 The TA or other authorized departmental government representative shall have access at all times to the work site and the work that is being performed.
- 9.7 The contractor is to ensure that their personnel do not use Government of Canada or TC designations, logos or insignia on any business cards, cubicle/office signs or written/electronic correspondence that in any manner lead others to perceive contracted personnel as being an employee of the Government of Canada.

10 Deliverables

- 10.1 The deliverables must be in the form of services provided to the Technical Authority in accordance with the assessment and the products generated thereof. A meeting will be arranged at the Contractor's place of work, or via teleconference with the Technical Authority to discuss the project and deliverables.
- 10.2 Removal and disposal of the two (2) reheat coils identified in this statement of work.

Annex A

Statement of Work

Replacement of the HVAC Reheating System Coils AHU #2 & AHU #7 MV Fundy Rose

- 10.3 Supply and install of two (2) reheat coils which meet or exceed the existing installation and the requirements stipulated within this statement of work.
- 10.4 Supply and install of a sufficient quantity of Diversitech PG Plus 5 Prop Glycol heat transfer fluid or equivalent to replenish any fluid lost during the exchange of reheaters.
- 10.5 Replacement of all disturbed thermal insulation.
- 10.6 Functional testing and proven operation of the automatic flow control valves associated with the two reheating system coils.
- 10.7 Test certificates of the manufacture of the coils demonstrating that they have been tested to the appropriate pressures for installation in the system.

11 Intellectual Property

- 11.1 TC has determined that any intellectual property rights arising from the performance of the Work under the resulting contract will belong to Canada.

12 Travel Requirements (if required)

The contractor will be required to travel to the vessel, and remain onboard while the vessel is operating between the ports of Saint John NB and Digby NS. Any travel costs are to be borne by the contractor and included in the bid price.

13 Project Schedule

- 13.1 The work is to be completed within 9 weeks of contract award.

14 Basis of Payment

- 14.1 The Basis of Payment for this contract will be fixed price including travel expenses.

15 Continuity and Replacement of Resources

- 15.1 The selected contractor shall not commence any work or be entitled to any compensation for any work undertaken unless the Contract Authority has authorized the work to begin.
- 15.2 The selected contractor shall be responsible to ensure that all proposed personnel and other professional resources are assigned for the duration of the contract and are not replaced without due cause. In the event that a resource is to be replaced, it shall be the selected contractors responsibility to ensure that there is no negative impact on any work in progress.

Annex A**Statement of Work****Replacement of the HVAC Reheating System Coils AHU #2 & AHU #7****MV Fundy Rose**

- 15.3 If for any reason, the designated resources for the project become unavailable the selected contractor shall immediately make available a fully qualified replacement resource to be approved by the Contract Authority. Such approval is not intended to limit the selected contractors flexibility but to ensure the use of agreed to resource levels and experience for the stated deliverables. The Contract Authority retains the right to refuse the proposed backup resources, in which case, and within a reasonable period of time, the selected contractor shall propose alternate resources. If no suitable replacement resource can be provided within a reasonable timeframe (maximum 24 hours), then the Contact Authority may elect to terminate the Contract or may elect to use an alternate method. Note that replacement resources are to be evaluated in accordance with the original evaluation.

Annex A

Statement of Work

Replacement of the HVAC Reheating System Coils AHU #2 & AHU #7 MV Fundy Rose

Selection Criteria

Contractor Selection Method

The bid must meet the mandatory technical criteria specified below. The bidder must provide the necessary documentation to demonstrate compliance with this requirement.

Bids that fail to meet the mandatory technical criteria will be declared non-responsive. Each mandatory technical criterion should be addressed separately.

Mandatory Technical Criteria (MT)

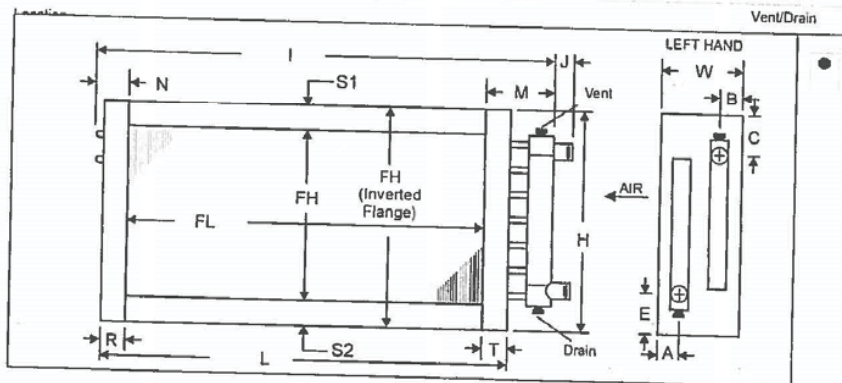
Number	Description of Criterion	Met	Not Met	Cross Ref to Proposal
MT1	The contractor must provide evidence that they have in place a Quality Management System registered to ISO 9001:2008 or a Quality Management System modeled on ISO 9001:2008 .			
MT2	The contractor has demonstrated that they have sufficient resources required to complete the work in the scheduled period of time.			
MT3	The contractor has included a detailed project plan which demonstrates how the work will be completed within 9 weeks of contract award.			
MT4	The contractor has supplied two (3) examples of similar undertakings of supply and installation of coils of the same or greater size.			

Annex A – Appendix 1 Heat Exchanger Details

Statement of Work

Replacement of the HVAC Reheating System Coils AHU #2 & AHU #7 MV Fundy Rose

ITEM		QTY	MODEL NUMBER					FL (IN)	HAND
			TYPE	FPI	ROWS	FIN	FH (IN)		
Oil heater #7		1	SWS	12	04	B	60.00	53.00	Left
MATERIALS OF CONSTRUCTION			OPTIONS						
Fin	0.0060 Copper		Coating		None			TurboSpirals	No
Tube	0.025 Copper		Casing Type		Flanged			Moisture Eliminator	No
Casing	316L S/S		Vent & Drain		.50 FPT on Face			Mounting Holes	No
Conn. Material	Carbon Steel							Label Kit	No
Conn. Type	MPT							Drain Headers	No
Conn. Size	1.50							Tube Ferrules	No
Weight (LBS)	539.0								



DIMENSIONAL DATA(IN)																
A	B	C	D	E	F	H	I	J	L	M	N	R	S1	S2	T	W
2.00	2.00	1.50	0.00	1.50	0.00	63.00	59.00	8.00	56.00	4.00	2.00	1.50	1.50	1.50	1.50	7.00

NOTES:

GENERAL NOTES:

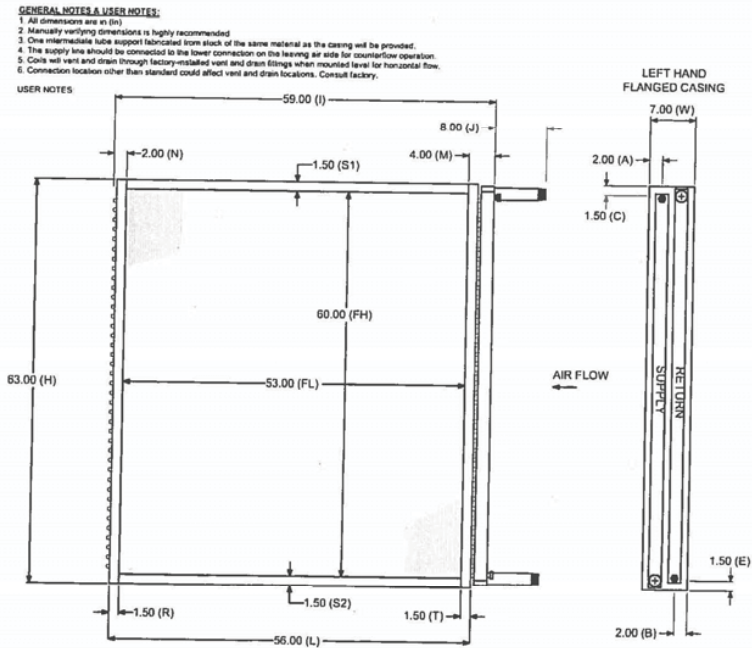
1. All dimensions are in (in)
2. Manually verifying dimensions is highly recommended.
3. One intermediate tube support fabricated from stock of the same material as the casing will be provided.
4. The supply line should be connected to the lower connection on the leaving air side for counterflow operation.
5. Coils will vent and drain through factory-installed vent and drain fittings when mounted level for horizontal flow.
6. Connection location other than standard could affect vent and drain locations. Consult factory

Annex A – Appendix 1 Heat Exchanger Details

Statement of Work

Replacement of the HVAC Reheating System Coils AHU #2 & AHU #7

MV Fundy Rose



Annex A – Appendix 2 Valve Details

Statement of Work

Replacement of the HVAC Reheating System Coils AHU #2 & AHU #7

MV Fundy Rose



**TAC Forta P
M750**
Actuator for valves

G-40-30

1998-06-30

M750 is an electro-mechanical actuator for the control of two-way and three-way plug valves in:

- domestic hot water systems
- heating systems
- air handling systems

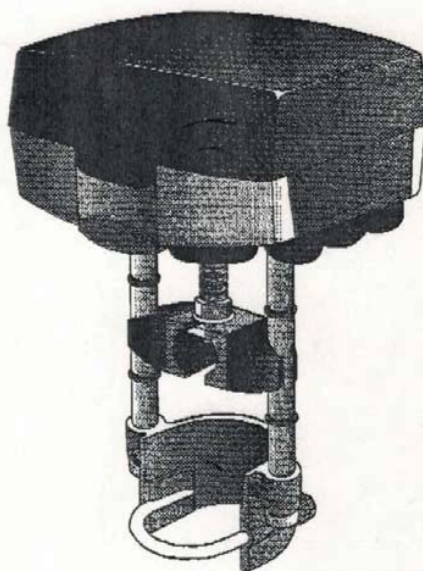
M750 is either controlled by an increase/decrease signal or by a modulating 2–10 V control signal. Modulating control makes for a faster positioning of the actuator.

The electronic circuitry of the actuator ensures that the running time is the same, regardless of the stroke of the valve in question.

It is easy to mount and connect the actuator. It can be mounted directly onto TAC's control valves, without any mounting kit.

The working range of the actuator is adjusted automatically depending on the stroke of the valve. The electronic circuitry of the actuator then takes care of the adjustment of the valve end positions.

The actuator is supplied by 24 V AC. It can provide 16 V DC voltage supply for older TAC controllers.



TECHNICAL DATA, M750

Part numbers	see the table on the next page
Supply voltage	24 V AC $\pm 10\%$, 50–60 Hz
Power consumption	15 VA
Running time:	
Modulating 10–25 mm	15 s
Modulating 26–32 mm	20 s
Increase/decrease	300 s/60 s
Stroke	10–32 mm
Factory set stroke	22 mm
Thrust	750 N
Duty cycle	max. 20%/60 minutes
Analog input:	
Voltage	0–10 V
Impedance	min 100k Ω
Digital inputs VH–VC:	
Voltage across open input	24 V AC
Current through closed input	5 mA
Pulse time	min. 20 ms
Output G1:	
Voltage	16 V DC $\pm 0,3$ V
Load	25 mA short-circuit proof

Output Y:	
Voltage	2–10 V (0–100%)
Load	2mA
Ambient temperature:	
Operation	–10 – +50 °C
Storage	–10 – +50 °C
Ambient humidity	max. 90% RH
Enclosure rating	IP 54
Standards:	
Emission	EN 50081-1:1992
Immunity	EN 50082-1:1992
Heat	IEC-68-2-2
Humidity	IEC-68-2-3
Cold	IEC-68-2-1
Salt mist	IEC-68-2-11
Vibration	IEC-68-2-6
Material:	
Housing	aluminium
Cover	ABS/PC plastic
Colour	aluminium/black
Weight	1,8 kg

Annex A – Appendix 2 Valve Details

Statement of Work

Replacement of the HVAC Reheating System Coils AHU #2 & AHU #7

MV Fundy Rose

TA

V 395

3-way control valve

F-30-15

December 1983



The V395 is a flanged skirt valve of nodular iron, sizes DN 40–100, pressure rating PN 25

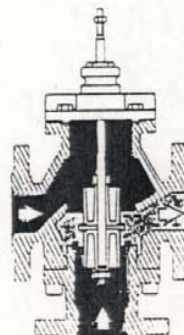
A flanged valve type V396, (diverting) is available, pressure rating PN 25

The type of actuator fitted is determined by the control system; required torque, travel time, etc.

As standard, the valve and actuator are supplied as an assembly, but can be supplied separately for site assembly.

TECHNICAL DATA

Type	V395
Part number	See table 1
Size	DN 40–100
Construction	Flanged plug valve
Characteristic	Logarithmic
K _v value	16–125
Pressure rating	PN 25
Max. temperature water	180 °C
Max. Δ Pm, valve open	250 kPa
Rangeability	30 : 1
Max. leakage, closed valve	0.05% of K _v
Material:	
Body	Nodular iron SIS 0717 02
Plug and seat	Bronze SIS 5204
Packing	Spring-loaded V-ring of PTFE
Connection	Flanged, ISO R 2084, BS 4504



Annex A – Appendix 2 Valve Details

Statement of Work

Replacement of the HVAC Reheating System Coils AHU #2 & AHU #7

MV Fundy Rose

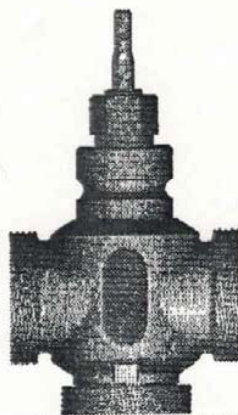


TAC Venta V341

F-30-50

Three-way plug valve, Bronze PN16

1999-03-17



V341 can be used in a wide range of applications, such as heating, cooling, air handling and domestic hot water systems.

If the valve is used for media at temperatures below 0 °C, it should be equipped with a stem heater in order to prevent ice formation on the valve stem.

The valve can handle the following types of media:

- Hot and chilled water.
- Water containing phosphate or hydrazine additives.
- Water with antifreeze additives such as glycol.

TECHNICAL SPECIFICATION

Design three-way plug valve
Pressure class PN 16
Flow characteristics A - AB EQM
Flow characteristics B - AB complementary
Stroke 20 mm
Rangeability Kv/Kv_{min} see table
Leakage A - AB up to 0,02% of Kv
Leakage B - AB up to 0,05% of Kv
ΔPm 500 kPa, water
Max. temperature of medium: 150 °C
Min. temperature of medium: -20 °C

Connections

Valve external pipe thread according to ISO 228/1

Connection sets see tables

Materials:

Body Bronze Rg5

Plug and seat stainless steel SS 2346

Stem stainless steel SS 2346

Average characteristic pressure ratio, X_{st} = 0,8 at 25% Kv,

$$\text{where } X_{st} = \frac{\Delta p_c}{p_1 - p_v}$$

Δp_c: differential pressure at the beginning of cavitation

p₁: absolute upstream pressure

Item no.s (connections are ordered separately, see p. 4):

Conn. DN	Kvs m³/h	Item number excl. connection	Kv/ Kv _{min}
15	1,6	731-4121-000	> 50
15	2,5	731-4125-000	> 50
15	4,0	731-4129-000	> 50
20	6,3	731-4133-000	> 100
25	10	731-4137-000	> 100
32	16	731-4141-000	> 100
40	25	731-4145-000	> 100
50	38	731-4149-000	> 100

Key:

- The rangeability is the ratio of Kv and Kv_{min}.
- Kv is the flow through the valve in m³/h at the specified valve lift and at a pressure drop of 100 kPa across the valve.
- Kv_{min} is the minimum controllable flow (m³/h) at a pressure drop of 100 kPa within the range in which the valve characteristics conform to the slope requirements of IEC 534-1.
- ΔPm is the maximum pressure drop across the fully open valve.

Annex A – Appendix 2 Valve Details

Statement of Work

Replacement of the HVAC Reheating System Coils AHU #2 & AHU #7

MV Fundy Rose

3) HEATING + COOLING CONTROL SYSTEM

NO. OF AHU	ACTUATOR	VALVE	CONTRO-LLER	TEMP. SENSOR for DUCT	FROST GUARD	TEMP.SENSOR FOR PIPE
AHU-01	M750	V341/DN25/Kvs10	221L	EGL	325FC	EGX2
AHU-02	M750	V395/DN65/Kvs63	221L	-	325FC	EGX2
AHU-03	M750	V341/DN32/Kvs16	221L	EGL	325FC	EGX2
AHU-04	M750	V341/DN20/Kvs6.3	221L	EGL	325FC	EGX2
AHU-05	M750	V341/DN20/Kvs6.3	221L	EGL	325FC	EGX2
AHU-06	M750	V395/DN65/Kvs63	221L	EGL	325FC	EGX2
AHU-07	M750	V341/DN20/Kvs6.3	221L	-	325FC	EGX2
AHU-08	M750	V341/DN20/Kvs6.3	221L	EGL	325FC	EGX2
TOTAL	8	8	8	6	8	8

4) RE-HEATING CONTROL SYSTEM

NO. OF AHU	ACTUATOR	VALVE	CONTRO-LLER	TEMP. SENSOR for DUCT
AHU-02	M750	V341/DN20/Kvs6.3	221L	EGL
AHU-07	M750	V341/DN20/Kvs6.3	221L	EGL
TOTAL	2	2	2	2

5) PRESSURE GUAGE WITH PANEL

POSITION	Q'TY	RANGE	REMARK
NO.1 AHU INLET (COOL+PRE.HEAT.)	1	0 ~ 10 kgf/cm ²	TYPE : SS-3022 GAUGE SIZE : Ø 75 WITH PANEL , AND TO BE SUPPLIED TEST VALVE BY HI-PRES TOTAL Q'TY : 20 PCS
NO.2 AHU INLET (COOL+PRE.HEAT.)	1	0 ~ 10 kgf/cm ²	
NO.3 AHU INLET (COOL+PRE.HEAT.)	1	0 ~ 10 kgf/cm ²	
NO.4 AHU INLET (COOL+PRE.HEAT.)	1	0 ~ 10 kgf/cm ²	
NO.5 AHU INLET (COOL+PRE.HEAT.)	1	0 ~ 10 kgf/cm ²	
NO.6 AHU INLET (COOL+PRE.HEAT.)	1	0 ~ 10 kgf/cm ²	
NO.7 AHU INLET (COOL+PRE.HEAT.)	1	0 ~ 10 kgf/cm ²	
NO.8 AHU INLET (COOL+PRE.HEAT.)	1	0 ~ 10 kgf/cm ²	
NO.2 AHU INLET (RE.HEAT.)	1	0 ~ 10 kgf/cm ²	
NO.7 AHU INLET (RE.HEAT.)	1	0 ~ 10 kgf/cm ²	
TOTAL	10		