

**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  
Bid Fax: (902) 496-5016

**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  
Acquisitions  
1713 Bedford Row  
Halifax, N.S./Halifax, (N.É.)  
B3J 3C9

<b>Title - Sujet</b> 750KW GENERATOR OVERHAUL	
<b>Solicitation No. - N° de l'invitation</b> W3554-136100/A	<b>Amendment No. - N° modif.</b> 001
<b>Client Reference No. - N° de référence du client</b> W3554-13-6100	<b>Date</b> 2013-03-18
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$HAL-403-8954	
<b>File No. - N° de dossier</b> HAL-2-69384 (403)	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2013-04-02</b>	<b>Time Zone</b> Fuseau horaire Atlantic Daylight Saving Time ADT
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input checked="" type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Brow, Theresa	<b>Buyer Id - Id de l'acheteur</b> hal403
<b>Telephone No. - N° de téléphone</b> (902) 496-5166 ( )	<b>FAX No. - N° de FAX</b> (902) 496-5016
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b>	

Instructions: See Herein

Instructions: Voir aux présentes

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

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## **PART 1 - GENERAL INFORMATION**

### **1. Security Requirement**

There is no security requirement associated with the requirement.

### **2. Requirement**

To repair 750W General Electric Generator Serial # 8370361 from the HMCS Iroquois. This will include a rewind of the stator, replacement of the main rotor leads, machining of the rotor slip rings, vacuum pressure impregnation (VPI) or stator and rotor, and a dynamic balance of the rotor complete with cooling fan.

### **3. Debriefings**

After contract award, 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 of receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

## **PART 2 - BIDDER INSTRUCTIONS**

### **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 (12-11-19) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

### **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.

### **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 questions or may request that the Bidder do so, so that the proprietary nature of the question is

eliminated, and the enquiry can be answered with copies to all bidders. Enquiries not submitted in a form that can be distributed to all bidders may not be answered by Canada.

#### 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.

### **PART 3 - BID PREPARATION INSTRUCTIONS**

#### 1. **Bid Preparation Instructions**

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

Section I:      Technical Bid  
Section II:     Financial Bid  
Section III:    Certifications

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) (<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:      Technical Bid**

In their technical bid, bidders should explain and demonstrate how they propose to meet the requirements and how they will carry out the Work.

#### **Section II:     Financial Bid**

Bidders must submit their financial bid in accordance with the Basis of Payment. The total amount of

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Goods and Services Tax (GST) or Harmonized Sales Tax (HST) must be shown separately, if applicable.

### **Section III: Certifications**

Bidders must submit the certifications required under Part 5.

## **PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION**

### **1. Evaluation Procedures**

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

### **2. Basis of Selection**

### **3. Security Requirement**

There is no security requirement with this document.

## **PART 5 - CERTIFICATIONS**

Bidders must provide the required certifications and related documentation to be awarded a contract. Canada will declare a bid non-responsive if the required certifications and related documentation are not completed and submitted as requested.

Compliance with the certifications bidders provide to Canada is subject to verification by Canada during the bid evaluation period (before award of a contract) and after award of a contract. The Contracting Authority will have the right to ask for additional information to verify bidders' compliance with the certifications before award of a contract. The bid will be declared non-responsive if any certification made by the Bidder is untrue, whether made knowingly or unknowingly. Failure to comply with the certifications, to provide the related documentation or to comply with the request of the Contracting Authority for additional information will also render the bid non-responsive.

### **1. Mandatory Certifications Required Precedent to Contract Award**

#### **1.1 Code of Conduct and Certifications - Related documentation**

By submitting a bid, the Bidder certifies as per section 01 of Standard Instructions 2004 (for himself and his affiliates, to be in compliance with the Code of Conduct and Certifications clause of the Standard instructions. The related documentation therein required will help Canada in confirming that the certifications are true.

#### **2. Additional Certifications Precedent to Contract Award and Certifications Required with the Bid**

Bidders must submit the certifications as provided below:

##### **2.1 Additional Certifications Precedent to Contract Award**

The certifications listed below should be completed and submitted with the bid but may be submitted afterwards. If any of these required certifications is not completed and submitted as requested, 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.

### Former Public Servant - Competitive Requirements

Contracts with former public servants (FPS) in receipt of a pension or of a lump sum payment must bear the closest public scrutiny, and reflect fairness in the spending of public funds. In order to comply with Treasury Board policies and directives on contracts with FPS, bidders must provide the information required below.

#### Definitions

For the purposes of this clause, "former public servant" is any former member of a department as defined in the Financial Administration Act, R.S., 1985, c. F-11, a former member of the Canadian Armed Forces or a former member of the Royal Canadian Mounted Police. A former public servant may be:

- a. an individual;
- b. an individual who has incorporated;
- c. a partnership made of former public servants; or
- d. a sole proprietorship or entity where the affected individual has a controlling or major interest in the entity.

"lump sum payment period" means the period measured in weeks of salary, for which payment has been made to facilitate the transition to retirement or to other employment as a result of the implementation of various programs to reduce the size of the Public Service. The lump sum payment period does not include the period of severance pay, which is measured in a like manner.

"pension" means, a pension or annual allowance paid under the Public Service Superannuation Act (PSSA), R.S., 1985, c.P-36, and any increases paid pursuant to the Supplementary Retirement Benefits Act, R.S., 1985, c.S-24 as it affects the PSSA. It does not include pensions payable pursuant to the Canadian Forces Superannuation Act, R.S., 1985, c.C-17, the Defence Services Pension Continuation Act, 1970, c.D-3, the Royal Canadian Mounted Police Pension Continuation Act, 1970, c.R-10, and the Royal Canadian Mounted Police Superannuation Act, R.S., 1985, c.R-11, the Members of Parliament Retiring Allowances Act, R.S., 1985, c.M-5, and that portion of pension payable to the Canada Pension Plan Act, R.S., 1985, c.C-8.

#### Former Public Servant in Receipt of a Pension

As per the above definitions, is the Bidder a FPS in receipt of a pension? Yes ( ) No ( )

If so, the Bidder must provide the following information, for all FPS in receipt of a pension, as applicable:

- a. name of former public servant;
  - b. date of termination of employment or retirement from the Public Service.
- By providing this information, Bidders agree that the successful Bidder's status, with respect to being a former public servant in receipt of a pension, will be reported on departmental websites as part of the published proactive disclosure reports in accordance with Contracting Policy Notice: 2012-2 and the Guidelines on the Proactive Disclosure of Contracts.

#### Work Force Reduction Program

Is the Bidder a FPS who received a lump sum payment pursuant to the terms of a work force reduction

program? Yes ( ) No ( )

If so, the Bidder must provide the following information:

- a.name of former public servant;
- b.conditions of the lump sum payment incentive;
- c.date of termination of employment;
- d.amount of lump sum payment;
- e.rate of pay on which lump sum payment is based;
- f.period of lump sum payment including start date, end date and number of weeks;
- g.number and amount (professional fees) of other contracts subject to the restrictions of a work force reduction program.

For all contracts awarded during the lump sum payment period, the total amount of fees that may be paid to a FPS who received a lump sum payment is \$5,000, including the Goods and Services Tax or Harmonized Sales Tax.

## PART 6 - RESULTING CONTRACT CLAUSES

### 1. Security Requirement

There is no security requirement associated with the requirement.

### 2. Requirement

To repair 750W General Electric Generator Serial # 8370361 from the HMCS Iroquois. This will include a rewind of the stator, replacement of the main rotor leads, machining of the rotor slip rings, vacuum pressure impregnation (VPI) or stator and rotor, and a dynamic balance of the rotor complete with cooling fan.

### 3. 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>) issued by Public Works and Government Services Canada.

2010C (2012-11-19), General Conditions - Services (Medium Complexity) apply to and form part of the Contract.

#### 3.2 Supplemental General Conditions

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

### 4. Term of Contract

#### 4.1 Delivery Date

All the deliverables must be received on or before \_\_\_\_\_ .

### 5. Authorities

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## 5.1 Contracting Authority

The Contracting Authority for the Contract is:

Theresa Brow  
Public Works and Government Services Canada  
Acquisitions Branch

Telephone: 902-496-5166  
Facsimile: 902-496-5016  
E-mail address: Theresa.Brow@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.

## 5.2 Project Authority

The Project Authority for the Contract is:

Ron Olsen  
Fleet Management Facility Cape Scott

Telephone : 902-427-2970  
E-mail address: Ron.Olsen@forces.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.

## 5.3 Contractor's Representative

Name:  
Title:

Phone:  
Cell:  
E-Mail Address:

## 6. Proactive Disclosure of Contracts with Former Public Servants

By providing information on its status, with respect to being a former public servant in receipt of a Public Service Superannuation Act (PSSA) pension, the Contractor has agreed that this information will be reported on departmental websites as part of the published proactive disclosure reports, in accordance with Contracting Policy Notice: 2012-2 of the Treasury Board Secretariat of Canada.

## 7. Payment

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## 7.1 Basis of Payment

## 7.2 Limitation of Expenditure

1. Canada's total liability to the Contractor under the Contract must not exceed \$ tbd . Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.
2. No increase in the total liability of Canada or in the price of the Work resulting from any design changes, modifications or interpretations of the Work, will be authorized or paid to the Contractor unless these design changes, modifications or interpretations have been approved, in writing, by the Contracting Authority before their incorporation into the Work. The Contractor must not perform any work or provide any service that would result in Canada's total liability being exceeded before obtaining the written approval of the Contracting Authority. The Contractor must notify the Contracting Authority in writing as to the adequacy of this sum:
  - A. when it is 75 percent committed, or
  - B. four (4) months before the contract expiry date, or
  - C. as soon as the Contractor considers that the contract funds provided are inadequate for the completion of the Work, whichever comes first.
3. If the notification is for inadequate contract funds, the Contractor must provide to the Contracting Authority a written estimate for the additional funds required. Provision of such information by the Contractor does not increase Canada's liability.

## 9. Certifications

### 9.1 Compliance

Compliance with the certifications and related documentation provided by the Contractor in its bid is a condition of the Contract and subject to verification by Canada during the term of the Contract. If the Contractor does not comply with any certification, provide the related documentation 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.

## 10. Applicable Laws

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

## 11. 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 general conditions 2010C, General Conditions
- (b) the general conditions 1029, Ship Repairs;
- (c) the Articles of Agreement;

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File No. - N° du dossier

HAL-2-69384

Buyer ID - Id de l'acheteur

ha1403

CCC No./N° CCC - FMS No/ N° VME

- 
- (d) Annex A, Basis of Payment
  - (e) the Contractor's bid dated

## Annex A

### TECHNICAL STATEMENT OF REQUIREMENTS FOR REPAIR OF A 750 KW GENERATOR FROM HMCS IROQUOIS SERIAL # 8370361

5 FEBRUARY 2013

#### **1.0 SCOPE**

- 1.1 This Technical Statement of Requirements (TSOR) states the requirements of the Department of National Defence, for the repair of a 750 KW General Electric Generator Serial # 8370361. This will include a rewind of the stator, replacement of the main rotor leads, machining of the rotor slip rings, vacuum pressure impregnation (VPI) of stator and rotor, and a dynamic balance of the rotor complete with cooling fan.

#### **2.0 GENERAL**

- 2.1 The generator covered by this TSOR is removed from HMCS Iroquois and the stator and rotor will be crated by Fleet Maintenance Facility Cape Scott (FMFCS) Electrical Shop. The crates will be retained for shipping back to FMFCS on completion of repairs.

- 2.2 The work entails the repair of the generator components as follows:

##### STATOR

- a. Burn out existing windings
- b. Clean stator
- c. Rewind stator
- d. VPI

##### ROTOR

- a. Steam Clean Rotor & Cooling Fan
- b. Replace main rotor leads, with supplied #6 Teflon Cable
- c. Machine the rotor slip rings
- d. VPI
- e. Dynamically balance rotor with cooling fan attached

- 2.3 The generator rating is 750 KW, .8 PF, 1200 RPM, 450 Volt, 3 Phase, 60 Hertz, Type ATI, Frame size 976, and Class "N" Insulation. The Stator is approx 1206 kg (2660 lb), with an overall height of 1.09m (43in), an overall width of 1.35m (53in), and overall length of .813m (32in). The stator windings have a diameter of approx .762m (30in). The rotor; including the shaft and cooling fan, is approx 1120 kg (2470lb), with an overall height of .609m (24in), an overall width of .609m (24in), and an overall length of 1.219m (48in). The rotor has a diameter of approx .647m (25.5in).

- 2.4 The following Quality Control (QC) actions are applicable throughout this Technical Statement of Requirements:

- a. "**M**"- indicates a "Mandatory Examination/Inspection Point", this point will be conducted by FMF Marine Electrical Engineering (MEL).
- b. "**A/C**"- indicates a stage in the work that requires FMFCS/ MEL be present during the Repair Facility's (RF) inspection/examination. The RF retains the sole responsibility for producing the required objective evidence.
- c. "**R**"- indicates a stage in the work that the RF shall record in writing, the data required.

#### **CONTACTS FMF ELECTRICAL ENGINEERING**

Gordon Grant: 902-427-6619, e-mail [Gordon.grant@forces.gc.ca](mailto:Gordon.grant@forces.gc.ca)

Mark Mitchell: 902-427-2035 / 902-209-6935, e-mail [mark.mitchell@forces.gc.ca](mailto:mark.mitchell@forces.gc.ca)

### 3.0 **PRIORITY OF DOCUMENTS**

- 3.1.1 In the event of any inconsistency in contract documents, the following order of significance shall prevail:
- a. Contract;
  - b. This TSOR; and
  - c. Drawing 280-L21-00004-01 Assembly of AC Generator (attached)
- 3.2 The contractor shall be responsible for ensuring the materials and methods used for the repair shall comply with, or be better than, the requirements of the applicable generator specifications as listed paragraphs 3.1 b and c.

### 4.0 **STATOR OVERHAUL**

- 4.1 Burnout the windings of the stator in a Controlled Temperature Burnout Oven. Maximum temperature allowed in the burnout oven will be 355 degrees Celsius (675 Fahrenheit).
- 4.2 Remove the windings from the stator and clean the stator utilizing dry ice blasting, walnut shell blasting, or an equivalent soft media cleaning method. **"SAND BLASTING WILL NOT BE USED TO CLEAN THE STATOR"**. Once cleaning is complete the stator is to be sprayed with a clear high temperature insulating lacquer.
- 4.3 Carryout a Core Loss Test of the stator and record results. This test shall be witnessed by FMF Electrical Engineering.  
**INSPECTION POINT: A/C & R**
- 4.4 Rewind the stator using similar materials identified on Dwg 280-L21-0004-01.
- 4.5 Install 9 (nine) new Thermistors in the slots of the stator as defined in Dwg 280-L21-00004-01.
- 4.6 The stator shall be vacuum pressure impregnated (VPI) **three (3) times** with 100 % Polyester Resin Varnish and baked after each VPI.

**NOTES: 1. Scrape the excess varnish off the laminations and the stator surfaces for endbells while the stator is still warm.**  
**2. Re-tap the bolts holes to remove the excess varnish.**

- 4.7 The stator shall be sprayed with Blue Thermopoxy or equivalent and dried before testing. The stator frame shall be sprayed a "Gray Shipside" color; International Paint "Interlac 1 Color Code CAA110", or equivalent.
- 4.8 An insulation test with a 1000 Volt meggar shall be taken and recorded to verify a minimum of 50 Megohms at 25 C between:
- a. Phases;
  - b. Phases and ground;
  - c. Phases and resistance temperature detectors and
  - d. Resistance temperature detectors and ground.
- These tests will be witnessed by FMFCS Electrical Engineering.  
**INSPECTION POINT: A/C & R**
- 4.9 Terminal to terminal resistance shall be taken and recorded. The terminal resistance of any phase of a three phase winding shall not vary from any other winding by more than 7.5% or from the average of all three phases by more than 5%. These tests will be witnessed by FMFCS Electrical Engineering.  
**INSPECTION POINT: A/C**
- 4.10 A high potential test of 1900 volts between electrical windings and ground to be maintained for one minute of time in accordance with standard procedure shall be carried out. Results shall be recorded. These tests will be

witnessed by FMFCS Electrical Engineering.

**INSPECTION POINT: A/C & R**

4.11 A final inspection of the Stator shall be conducted by the FMF Electrical Engineering.

**5.0 ROTOR OVERHAUL**

5.1 Uncrate and inspect the rotor windings for any signs of mechanical damage, charred or discolored insulation, and oil or carbon contamination. Remove / Retain from rotor frame #6 Teflon Wire for main rotor lead replacement.

5.2 Steam clean the rotor to remove all deposits of carbon, grease, copper dust and any other contamination.

**CAUTION**

1. **Live steam should not impinge on the windings.**
2. **To avoid damage to the insulation, the temperature of the cleaning solution on the winding shall not exceed 85 degrees C (194 degrees F), and the pressure applied at the winding shall not exceed 25 pounds per square inch.**
3. **When heating is applied to the windings, it should be regulated so that the insulation will not be damaged by overheating. The heating should not be so rapid that the internal pressures are developed which may be great enough to form gas pockets or blisters which could rupture the insulation.**

5.3 After each steam cleaning, remove surface moisture with a clean cloth. Dry in the equipment drying oven promptly to minimize the amount of water absorbed by the insulation. Examine the rotor windings for overheating and condition of the winding insulation. FMFCS Electrical Engineering shall inspect the rotor.

**INSPECTION POINT: A/C**

5.4 The main rotor leads are to be replaced utilizing # 6 Teflon Wire provided by the customer.

5.5 The rotor shall be vacuum pressure impregnated (VPI) **one (1) times** with 100 % Polyester Resin Varnish and baked

**NOTE: Scrape the excess varnish off while the rotor is still warm.**

5.6 The rotor shall be sprayed with Blue Thermopoxy and dried before testing.

5.7 An insulation test with a 500 Volt meggar shall be taken and recorded to verify a minimum of 50 megohms at 25 C between:

- a. The rotor poles and ground
- b. The slip rings and ground
- c. The windings

FMFCS Electrical Engineering shall carry out an onsite inspection and witness the testing of the rotor when the VPI is complete.

**INSPECTION POINT: A/C & R**

**6.0 SLIP RINGS**

6.1 Slip rings are to be examined for wear, taper, eccentricity, flat spots and remaining wear depth.

**NOTE: When machining or polishing the slip rings, care is to be exercised to prevent the ingress of metallic particles into the rotor.**

6.2 The slip rings shall be machined if any of the following tolerances are exceeded:

- a. Eccentricity - .004 inch of total dial indicator reading

- b. Taper - .002 per inch of width
- c. Wear – If heavy threading or burning is evident or flat spots exist  
If machining is required; FMFCS/Marine Electrical Engineering shall inspect the slip rings on completion.  
**INSPECTION POINT: AIC**

## **7.0 DYNAMIC BALANCING**

- 7.1 The fan shall be fitted to the rotor and the complete unit shall be balanced.
- 7.2 The rotor shall be vibration analyzed on a balancing machine fitted with vibration pickups. The rotor shall be balanced at rated speed where possible and the vibration shall be measured in the radial plane.
- 7.3 On completion of balancing and prior to removing the fan assembly for shipping. The bolt holes on the fan and rotor shaft will be clearly identified with corresponding marks. This is to ensure that on reassembly, the fan can be bolted back into the exact location on the rotor shaft where it was seated during the balancing phase.

## **8.0 SHIPPING**

- 8.1 The contractor will be responsible for transporting the Stator and Rotor assemblies from FMFCS Electrical Shop and return to the FMFCS Electrical Shop.

## **9.0 COMPLETION**

- 9.1 On completion and acceptance of the generator, the generator stator, and rotor shall be suitably protected and transported to FMFCS Electrical Test Shop.

## **10.0 TECHNICAL REPORT**

- 10.1 The contractor shall furnish a report of all work carried out on the generator. This shall include but not be limited to the following:
  - a. The state of the generator;
  - b. Any out of tolerance items and the process and extent of any work carried out to correct them
  - c. The results of all testing as per paragraphs 4.0 to 7.0.
- 10.2 This report shall be submitted to the FMFCS Contracts Office within 14 days of completion of repairs and all testing.

**ANNEX B - BASIS OF PAYMENT**

**B1 Contract Price**

<b>a)</b>	<b>Known Work</b> For work as stated in Part 7 article 7.1, Specified in Annex "A" and detailed in the attached Pricing Data Sheets at Appendix 1 to this Annex for a FIRM PRICE of:	\$ _____
<b>d)</b>	<b>HST/PST</b>  Estimated at ( __% ) of Line a) only	\$ _____
<b>e)</b>	<b>Total Firm Price</b> HST Included:  <div style="text-align: right;">For a FIRM PRICE of :</div>	\$ _____

**B2 Unscheduled Work**

The Contractor will be paid for unscheduled work arising, as authorized by Canada, calculated in the following manner:

"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 10% mark-up, plus Goods and Services Tax or Harmonized Sales Tax as applicable, 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 duration of the Contract and any subsequent amendments thereto."

- B2.1** Notwithstanding definitions or useage elsewhere in this document, or in the Contractor's Cost Management System, when negotiating Hours for unscheduled work, PWGSC will consider only those hours of labour directly involved in the production of the subject work package. Elements of Related Labour Costs identified in B2.2, will not be negotiated, but will be compensated for in accordance with B2.2.
- B2.2** Allowance for Related Labour Costs such as: Management, Direct Supervision, Purchasing and Material Handling, Quality Assurance and Reporting, First Aid, Gas Free Inspecting and Reporting, and Estimating will be included as Overhead for the purposes of determining the Charge-out Labour Rate set out in clause B2.
- B2.3:** The 10% mark-up rate for materials will also apply to subcontracted costs. The mark-up rate includes any allowance for material and subcontract management not allowed for in the Chargeout Labour Rate. The Contractor will not be entitled to a separate labour component for the purchase and handling of materials or subcontract administration.

**B3 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 C - INSURANCE REQUIREMENTS**

### **C1 Ship Repairers' Liability Insurance**

1. 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.
2. The Ship Repairer's Liability insurance must include the following:
  - (a) 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.
  - (b) Waiver of Subrogation Rights: Contractor's Insurer to waive all rights of subrogation against Canada as represented by Department of Fisheries and Oceans / Canadian Coast Guard and Public Works and Government Services Canada for any and all loss of or damage to the vessel, however caused.
  - (c) Notice of Cancellation: The Insurer will endeavor to provide the Contracting Authority thirty (30) days written notice of cancellation.
  - (d) 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.
  - (e) 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.

*(Derived from - Provenant de: G5001C, 2008-05-12)*

### **C2 Commercial General Liability**

1. 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 \$10,000,000 per accident or occurrence and in the annual aggregate.
2. The Commercial General Liability Insurance policy must include the following:
  - (a) 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.
  - (b) Bodily Injury and Property Damage to third parties arising out of the operations of the Contractor.
  - (c) 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.
  - (d) 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.
  - (e) 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.
  - (f) Employees and, if applicable, Volunteers must be included as Additional Insured.
  - (g) Employers' Liability (or confirmation that all employees are covered by Worker's compensation (WSIB) or similar program)

- (h) Notice of Cancellation: The Insurer will endeavor to provide the Contracting Authority thirty (30) days written notice of policy cancellation.
  - (i) 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.
  - (j) Owners' or Contractors' Protective Liability: Covers the damages that the Contractor becomes legally obligated to pay arising out of the operations of a subcontractor.
  - (k) Sudden and Accidental Pollution Liability (minimum 120 hours): To protect the Contractor for liabilities arising from damages caused by accidental pollution incidents.
- (Derived from - Provenant de: G2001C, 2005-05-12)*

### **C3 Limitation of Contractor's Liability for Damages to Canada**

1. 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.
2. 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 per incident or occurrence, to an annual aggregate of \$20,000,000 for damages caused in any one year of carrying out of the Contract, each such year starting on the date of coming into force of the Contract or its anniversary, and to a total maximum liability of \$40,000,000.00. This limitation of the Contractor's liability does not apply to:
  - (a) any infringement of intellectual property rights; or
  - (b) any breach of warranty obligations.
3. 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.

## ANNEX D - INSPECTION/QUALITY ASSURANCE/QUALITY CONTROL

### D1 Inspection and Test Plan (ITP):

1. The Contractor must prepare an Inspection and Test Plan (ITP) comprising individual inspection and test plans for each specification item of this project, in accordance with the Quality Standard and its Quality Control Plan. The ITP must be submitted to the Inspection Authority for review and amended by the Contractor to the satisfaction of the Inspection Authority.
  - (a) Each ITP must contain all inspection points identified in the Specification highlighting any mandatory points that must be witnessed by the Inspection Authority and other "hold" points imposed by the Contractor to ensure the quality of the work.
  - (b) Milestone delivery date for the ITP is given in the Contract, however individual ITPs should be forwarded for review as developed.
2. Coding:
  - (a) Each Inspection and Test Plan (ITP) is to be coded for identification clearly demonstrating a systematic approach similar to the following:  
(Contractor's system should be defined in its Quality Control Plan): e.g. Prefixes for Inspections, Test and Trials:
    - i. Prefix "1" is a Contractor inspection,
    - ii. Prefix "2" is a Contractor post repair test,
    - iii. Prefix "3" is a Contractor post repair trial,
  - (b) Specification items followed by assigned sequence numbers for inspection processes within each Specification Item; and
  - (c) Cross reference to a verification document number
3. Inspection and Test Plan Criteria:

Inspection criteria, procedures and requirements are stated in the specifications, drawings, technical orders and reference standards invoked by the Specifications. Test and trial documentation may also be included or referenced in the Specifications. An individual Inspection and Test Plan (ITP) is required for each Specification item.

  - (a) All ITPs must be prepared by the Contractor in accordance with the above criteria, its Quality Plan, and must provide the following reference information:
    - i. the ship's name;
    - ii. the Specification item number;
    - iii. equipment/system description and a statement defining the parameter which is being inspected;
    - iv. a list of applicable documents referenced or specified in the inspection procedure;
    - v. the inspection, test or trial requirements specified in the Specification;
    - vi. the tools and equipment required to accomplish the inspection;
    - vii. the environmental conditions under which the inspections are to be conducted and the tolerances on the inspection conditions;
    - viii. a detailed step-by step procedure of how each inspection is to be performed, conformance parameters, accept/reject criteria and recording of results, deficiencies found and description of corrective action(s) required;
    - ix. name and signature of the person who prepared the plan, date prepared and amendment level; and,
    - x. names and signatures of the persons conducting and witnessing the inspection, test or trial.
4. Contractor Imposed Testing:

Tests and trials in addition to those given in the Specification must be approved by the Inspection Authority.

- (a) Amendments: Amendment action for the Inspection and Test Plans must be ongoing throughout the refit and reflect the inspection requirements for unscheduled work. Amendments must be submitted as developed, but not less frequently than once every second week.

## **D2 Conduct of Inspection**

1. Inspections shall be conducted in accordance with the ITP and as detailed in E4.
2. The Contractor shall provide their own staff or subcontracted staff to conduct inspections, tests and trials; excepting that Technical Authority or Inspection Authority personnel may be designated in the specifications, in which case the Contractor shall ensure that their own staff are provided in support of such inspection/test/trial.
3. The Contractor shall ensure that the required conditions stated in the ITP prevail at the commencement of, and for the duration of, each inspection/test/trial.
4. The Contractor shall ensure that personnel required for equipment operation and records taking during the inspection/test/trial are briefed and available at the start and throughout the duration of the inspection/test/trial. Tradesmen or FSRs who may be required to effect minor changes or adjustments in the installation shall be available at short notice.
5. The Contractor is to coordinate the activities of all personnel taking part in each inspection/test/trial and ensure that safe conditions prevail throughout the inspection/test/trial.

## **D3 Inspection Records and Reports**

1. The Contractor on the inspection record, test or trials sheets as applicable shall record the results of each inspection. The Contractor shall maintain files of completed inspection records consistent with the Quality Standard and their Quality Plan for this project.
2. The Contractor's QC representative (and the FSR when required) shall sign as having witnessed the inspection, test or trial on the inspection record. The Contractor shall forward originals of completed inspection records, together with completed test(s) and/or trials sheets to the Inspector as they are completed.
3. Unsatisfactory inspection/test/trial results, for which corrective action cannot be completed during the normal course of the inspection/test/trial, will require the Contractor to establish and record the cause of the unsatisfactory condition to the satisfaction of the Inspector. The Crown representatives may assist in identification where appropriate.
4. Corrective action to remove cause of unsatisfactory inspections shall be submitted to the Inspector in writing by the Contractor, for approval prior to affecting such repairs and rescheduling of the unsatisfactory inspection/test/trial. Such notices shall be included in the final records passed to the Inspector.
5. The Contractor shall undertake rectification of defects and deficiencies in the Contractor's installation or repair as soon as practicable. The Contractor is responsible to schedule such repairs at their own risk.
6. The Contractor shall reschedule unsatisfactory inspections after any required repairs have been completed.
7. Quality Control, Inspection and Test records that substantiate conformance to the specified requirements, including records of corrective actions, shall be retained by the Contractor for three (3) years from the date of completion or termination of the Contract and shall be made available to the Inspection Authority upon request.

## **D4 Inspection and Trials Process**

1. Drawings and Purchase Orders
  - a. Upon receipt of two (2) copies of each drawing or purchase order, the Designated Inspector will review their content against the provisions of the specification. Where discrepancies are noted, the Inspector will formally advise all concerned, in writing using a Discrepancy Notice. The resolution of any such

discrepancy is a matter for consultation between the Contractor and other Crown Authorities.  
**The Inspector is NOT responsible for the resolution of discrepancies.**

## 2. Inspection

- a. Upon receipt and acceptance of the Contractor's ITP, inspection will consist of a number of Inspection Points supplemented by such other inspections, tests, demonstrations and trials as may be deemed necessary by the Inspector to permit him to certify that the work has been performed in compliance with the provisions of the specification. The Contractor shall be responsible for notifying the Designated Inspector of when the work will be available for inspection, sufficiently in advance to permit the Designated Inspector to arrange for the appropriate inspection.
- b. The Inspector will inspect the materials, equipment and work throughout the project against the provisions of the specification and, where non-conformances are noted, will issue appropriate **INSPECTION NON-CONFORMANCE REPORTS**.
- c. The Contract requires the implementation of a Quality Assurance/Quality Control system, so the Inspector shall require that the Contractor provide a copy of its internal inspection report pertaining to a work item before conducting the requested inspection. If third party inspections are required by the Contract (e.g. inspections by a certified CWB 178.2 welding inspector), the reports of these inspections shall be required before the Work is inspected by the PWGSC Inspector.
- d. The QA/QC system is a requirement, so if the documentation is presented to the Inspector prior to an inspection stating that the Work is satisfactory but the Inspector finds that the Work has not been satisfactorily inspected, the Inspector shall issue an Inspection Non-conformance Report against the Work and another against the failure of the Contractor's QA/QC system.
- e. Before carrying out any inspection, the PWGSC Inspector shall review the requirements for the Work and the acceptance and/or rejection standards to be applied. Where more than one standard or requirement is called up and they are potentially conflicting, the Inspector shall refer to the order of precedence in the Contract to determine the standard or requirement to be applied.

## 3. Inspection Non-conformance report

- a. An Inspection Non-conformance Report will be issued for each non-conformance noted by the Inspector. Each report will be uniquely numbered for reference purposes, will be signed and dated by the Inspector, and will describe the non-conformance.
- b. When the non-conformance has been corrected by the Contractor and has been re-inspected and accepted by the Inspector, the Inspector will complete the Report by adding an appropriate signed and dated notation.
- c. At the end of the project, the content of all Inspection Non-conformance Reports which have not been signed-off by the Inspector will be transferred to the Acceptance Documents prior to the Inspector's certification of such documents.

## 4. Tests, Trials, and Demonstrations

- a. To enable the Inspector to certify that the Work has been performed satisfactorily, in accordance with the Contract and Specifications, the Contractor shall schedule, co-ordinate, perform, and record all specified Tests, Trials and Demonstrations required by the Inspector as detailed in F4.
- b. Where the Specifications contain a specific performance requirement for any component, equipment, sub-system or system, the Contractor shall test such component, equipment, sub-system or system to the satisfaction of the Inspector, to prove that the specified performance has been achieved and that the component, equipment, sub-system or system performs as required by the specifications.
- c. Tests, trials and demonstrations shall be conducted in accordance with a logical, systematic schedule

which shall ensure that all associated components and equipment are proven prior to sub-systems demonstration or testing, and that sub-systems are proven prior to system demonstration or testing.

- d. Where the Specifications do not contain specific performance requirements for any component, equipment, sub-system or system, the Contractor shall demonstrate such component, equipment, sub-system or system to the satisfaction of the Inspector.
- e. The Contractor shall submit their Inspection and Test Plan as detailed in F2.
- f. The Contractor shall co-ordinate each test, trial and demonstration with all interested parties, including the Inspector; Contracting and Technical Authorities; regulatory authorities; Classification Society; Sub-contractors; etc. The Contractor shall provide the Inspector and other Crown Authorities with a minimum of five working days notice of each scheduled test, trial, or demonstration.
- g. The Contractor shall keep written records of all tests, trials, and demonstrations conducted as detailed in F4.
- h. The Contractor shall in all respects be responsible for the conduct of all tests and trials in accordance with the requirements of the Contract.
- i. The Inspection Authority and the Technical Authority reserve the right to defer starting or continuing with any sea trials for any reasonable cause including but not limited to adverse weather, visibility, equipment failure or degradation, lack of qualified personnel and inadequate compliance with safety standards

## **ANNEX E - WARRANTY**

### **E1 2030 (2012-07-16) General Conditions - Higher Complexity - Goods are hereby amended as follows:**

Delete Section 2030 21 Warranty and Insert the following:

#### **Section 21 Warranty**

1. At the discretion of the Minister, the Contractor will replace or make good at its own expense any finished work, excluding Government Issue incorporated therein, which becomes defective or which fails to conform to contract requirements as a result of faulty or inefficient manufacture, material or workmanship.
2. Notwithstanding prior acceptance of the finished work, and without restricting any other term of the Contract or any condition, warranty or provision implied or imposed by law, the Contractor hereby warrants that the following shall be free from all defects and shall conform with the requirements of the contract:
  - (a) All painting Work for a period of three hundred sixty five (365) days commencing from the date of acceptance of the Work;
  - (b) All other items of Work for a period of ninety (90) days commencing from the date of acceptance of the Work, except that:
    - (i) the warranty on the Work related to any system or equipment not immediately placed in continuous use or service shall extend for a period of ninety (90) days from the date of acceptance of the vessel;
    - ii) 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.
3. 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.

### **E2 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**

- a. 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 Appendix 1 to Annex E 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 manhours 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 manhours 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.



**3. Contractor's Corrective Action – La modalité de reprise de l'entrepreneur**

\_\_\_\_\_  
Contractor's Name and Signature – Nom et signature de l'entrepreneur

\_\_\_\_\_  
Date of Corrective Action - Date de modalité de reprise

\_\_\_\_\_  
Client Name and Signature - Nom et signature de client

\_\_\_\_\_  
Date

**4. PWGSC Review of Warranty Claim Action – Examen d'action de réclamation de garantie par TPSGC**

\_\_\_\_\_  
Signature – Signature

\_\_\_\_\_  
Date

**5. Additional Information – Renseignements supplémentaires**

Canada

PWGSC-TPSGC