

RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
Public Works Government Services Canada-
Bid Receiving / Réception des soumissions
189 Prince William Street
Room 405
Saint John
New Brunswick
E2L 2B9

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

All enquiries are to be submitted in writing to the Contracting Authority, Darlene Reay, either by facsimile or by e-mail at: darlene.reay@pwgsc.gc.ca.

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

Issuing Office - Bureau de distribution

Public Works Government Services Canada- Bid
Receiving / Réception des soumissions
189 Prince William Street
Room 405
Saint John
New Bruns
E2L 2B9

Title - Sujet Maintenance Services -	
Solicitation No. - N° de l'invitation W0105-15E031/A	Date 2015-03-05
Client Reference No. - N° de référence du client W0105-15E031	GETS Ref. No. - N° de réf. de SEAG PW-\$PWB-021-3585
File No. - N° de dossier PWB-4-37161 (021)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2015-03-24	
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: Reay, Darlene	Buyer Id - Id de l'acheteur pwb021
Telephone No. - N° de téléphone (902) 566-7518 ()	FAX No. - N° de FAX (506) 636-4376
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DEPARTMENT OF NATIONAL DEFENCE 5 Engineer Svcs. Unit, BLDG. B-18 PO Box 17000 Station Forces OROMOCTO New Brunswick E2V4J5 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

**Maintenance Services -
Inspection and Maintenance of
Delta Direct Digital Control System
HMCS Brunswicker
Saint John, N.B.**

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PART 1 - GENERAL INFORMATION

1. Requirement

Work under this Service Contract comprises the furnishing of all labour, materials, tools, equipment, software and firmware updates required to complete repairs, remote phone line inspections and annual on-site inspection of the Delta Version 3 Orcaview building automation system at HMCS Brunswicker Naval Reserve as specified herein.

HMCS Brunswicker Naval Reserve is located at 160 Chesley Drive (1 Navy Way), Saint John, New Brunswick.

This Service Contract will extend from 01 April 2015 to 31 March 2016 with two, one year option periods.

The services must be provided in accordance with the Specification attached at Annex "E".

This agreement is subject to the provisions of the Agreement on Internal Trade.

2. 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* (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) 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 (2014-09-25) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

1.1 SACC Manual Clauses (by reference)

A0220T - Evaluation of Price (2014-06-26)

2. Submission of Bids

Tenders shall be received at the office designated for the receipt of tenders, on or before the date and time set for tender closing. Late tenders will be returned unopened.

- (a) Bids must be complete and submitted on prescribed tender form;
- (b) Include the tender call number/project number and description of proposed work;
- (c) Include the closing date and time;

**Bid Receiving
Public Works and Government Services Canada
Room 405
189 Prince William Street
Saint John, New Brunswick
E2L 2B9**

Offers by facsimile will be accepted. Facsimile Number is (506) 636-4376.

NOTE: THIS IS NOT A PUBLIC OPENING

Revision of Bid

General Instructions to Bidders - R2710T (2014-09-25)

GI10 (2010-01-11) Revision of Bid

1. A bid submitted in accordance with these instructions may be revised by letter or facsimile provided the revision is received at the office designated for the receipt of bids, on or before the date and time set for the closing of the solicitation. The letter or facsimile shall be on the Bidder's letterhead or bear a signature that identifies the Bidder.
2. A revision to a bid that includes unit prices must clearly identify the change(s) in the unit price(s) and the specific item(s) to which each change applies.
3. A letter or facsimile submitted to confirm an earlier revision shall be clearly identified as a confirmation.
4. Failure to comply with any of the above provisions shall result in the rejection of the non-compliant revision(s) only. The bid shall be evaluated based on the original bid submitted and all other compliant revision(s).

3.. Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than 5 (five) 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 New Brunswick.

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.

5. 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".

6. 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 seven (7) 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

PART 3 - BID PREPARATION INSTRUCTIONS

1. Bid Preparation Instructions

Price must not appear in any other area of the bid except in the **Financial Bid**.

It is required that the bids follow the response format/instructions as detailed below:

Section I: Technical Bid

No Technical Bid required as part of this requirement.

Section II: Financial Bid

Bidders must submit their financial bid in accordance with Annex "B" Basis of Payment. The total amount of Goods and Services Tax (GST) or Harmonized Sales Tax (HST) must be shown separately, if applicable

Section III: Certifications

Bidders must submit the certification required under Part 5.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

1. Evaluation Procedures and Basis of Selection

Bids will be evaluated in accordance with the **Evaluation Criteria and Basis of Selection** specified in **Annex "A"** and **Basis of Payment** specified in **Annex "B"**. Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria.

PART 5 - CERTIFICATIONS

Bidders must provide the required certifications to be awarded a contract. Canada will declare a bid non-responsive if the required certifications 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 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, for himself and his affiliates, to be in compliance with the Code of

Conduct and Certifications clause of the Standard instructions. The related documentation hereinafter mentioned will help Canada in confirming that the certifications are true. By submitting a bid, the Bidder certifies that it is aware, and that its affiliates are aware, that Canada may request additional information, certifications, consent forms and other evidentiary elements proving identity or eligibility. Canada may also verify the information provided by the Bidder, including the information relating to the acts or convictions specified herein, through independent research, use of any government resources or by contacting third parties. Canada will declare non-responsive any bid in respect of which the information requested is missing or inaccurate, or in respect of which the information contained in the certifications is found to be untrue, in any respect, by Canada. The Bidder and any of the Bidder's affiliates, will also be required to remain free and clear of any acts or convictions specified herein during the period of any contract arising from this bid solicitation.

Bidders who are incorporated, including those bidding as a joint venture, must provide with their bid or promptly thereafter a complete list of names of all individuals who are currently directors of the Bidder. Bidders bidding as sole proprietorship, including those bidding as a joint venture, must provide the name of the owner with their bid or promptly thereafter. Bidders bidding as societies, firms, partnerships or associations of persons do not need to provide lists of names. If the required names have not been received by the time the evaluation of bids is completed, Canada will inform the Bidder of a time frame within which to provide the information. Failure to comply will render the bid non-responsive. Providing the required names is a mandatory requirement for contract award.

Canada may, at any time, request that a Bidder provide properly completed and Signed Consent Forms (Consent to a Criminal Record Verification form- PWGSC-TPSGC 229) (<http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/formulaires-forms-eng.html>) for any or all individuals aforementioned within the time specified. Failure to provide such Consent Forms within the time period provided will result in the bid being declared non-responsive.

2. 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.

See Annex A

PART 6 - RESULTING CONTRACT CLAUSES

1. Requirement

Work under this Service Contract comprises the furnishing of all labour, materials, tools, equipment, software and firmware updates required to complete repairs, remote phone line inspections and annual on-site inspection of the Delta Version 3 Orcaview building automation system at HMCS Brunswicker Naval Reserve as specified herein.

HMCS Brunswicker Naval Reserve is located at 160 Chesley Drive (1 Navy Way), Saint John, New Brunswick.

This Service Contract will extend from 01 April 2015 to 31 March 2016 with two, one year option periods.

The services must be provided in accordance with the Specification attached at Annex "E".

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*

(<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) Manual issued by Public Works and Government Services Canada.

2.1 General Conditions

2010C (2014-09-25), General Conditions - Services (Medium Complexity) apply to and form part of the Contract.

3. Term of Contract

3.1 Period of the Contract

The work is to be performed from April 1, 2015 to March 31, 2016.

3.2 Option to Extend the Contract

The Contractor grants to Canada the irrevocable option to extend the term of the Contract by up to two (2) additional one (1) year period(s) under the same conditions. The Contractor agrees that, during the extended period of the Contract, it will be paid in accordance with the applicable provisions as set out in the Basis of Payment.

Canada may exercise this option at any time by sending a written notice to the Contractor at least thirty (30) calendar days before the expiry date of the Contract. The option may only be exercised by the Contracting Authority, and will be evidenced for administrative purposes only, through a contract amendment.

4. Authorities

4.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Darlene Reay
Title: Supply Officer
Organization: Public Works and Government Services Canada
Acquisitions Branch
Directorate: Real Property Contracting
Address: 3 Queen Street, Charlottetown, PEI
C1A 4A2
Telephone: (902) 566-7518
Facsimile: (506) 636-4376
E-mail address: darlene.reay@pwgsc.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.

4.2 Project Authority - Will be made available at time of award

The Project Authority for the Contract is:

Name:

Title:

Organization:

Address:

Telephone :

Facsimile:

E-mail address:

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.

4.3 Contractor's Representative

Name:

Title:

Organization:

Address:

Telephone:

Fax:

E-mail:

5. Payment

Basis of payment is in accordance with Annex "B" and section 12, Payment Period, of the 2010C ((2014-09-25), General Conditions - Services (Medium Complexity)).

5.1 Monthly Payment

SACC Manual clause H1008C (2008-05-12) Monthly Payment

6. Invoicing Instructions

The Contractor must submit invoices in accordance with the information required in section 10, Invoice Submission, of the 2010C (2014-09-25), General Conditions - Services (Medium Complexity).

7. Certifications

7.1 Compliance with the certifications 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 or 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.

8. Applicable Laws

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

9. 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) 2010C (2014-09-25);
- (c) Specification (Annex "E") and annexes;
- (d) Any Amendment issued or any allowable bid revision received before the date and time set for solicitation closing;
- (e) the Contractor's bid dated _____

10. SACC Manual Clauses

SACC Manual Clause A0285C (2007-05-25) Worker's Compensation
SACC Manual Clause A2000C (2006-06-16) Foreign Nationals (Canadian Contractor)
SACC Manual Clause A2001C (2006-06-16) Foreign Nationals (Foreign Contractor)
SACC Manual Clause A9062C (2011-05-16) Canadian Forces Site Regulations

11. Insurance Requirements

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 seven (7) days after request from the Contracting Authority and prior to award of Service 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.

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ANNEX "A"

EVALUATION CRITERIA AND BASIS OF SELECTION

ANNEX "A"

EVALUATION CRITERIA AND BASIS OF SELECTION

Bids received will be assessed in accordance with the entire requirement of the bid solicitation.

1. Mandatory Criteria

1. Submission of firm prices/rates for one (1) year including two (2) option years in accordance with Invitation to Tender.
2. A duly completed and signed Invitation to Tender including all Addenda.
3. Within seven (7) days of request from contracting authority and prior to award of Service Contract, provide proof that Bidder has an account in good standing with the Provincial Workers Compensation Board/Commission.
4. Within seven days of request from Contracting Authority and prior to award of the Service Contract, Contractor must provide proof of \$2 Million General Liability Insurance.

Within seven (7) days of request from contracting authority and prior to award of Service Contract

5. The Contractor must be qualified and knowledgeable in the inspection and repair of Delta Orcaview V3 Energy Management Systems and all equipment listed in 1.4.1. The Contractor must provide a copy of an agreement with Delta Controls, the Orcaview V3 supplier, to the Engineer before the award of this Service Contract. This must show that the Contractor is qualified to perform the work on this system and that the Contractor can provide the system software, firmware as well as all updates as required.
6. The work shall be performed by qualified controls technicians directly employed by the Contractor and trained by the system's manufacturer. The Contractor must provide copies of certificates as proof of training in Delta's Orcaview Version 3 for all technicians assigned to work on these systems. Copies of certificates are to be provided to the Engineer prior to the award of this Service Contract.

2. 2007/05/07 A0069T Basis of Selection - Mandatory Requirements Only

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.

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ANNEX "B"

BASIS OF PAYMENT

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ANNEX "B"

BASIS OF PAYMENT

The following requirement must be strictly adhered to: **Failure to do so shall render the bidder's proposal as non-responsive.**

It is mandatory that the bidders submit firm rates for the Period of the Service Contract for all items listed hereafter. Unit Price Tables, will be considered as the bidder's Financial Proposal.

Each item specified in the Unit Price Tables, includes wages, traveling time and costs, allowances, supervision, liabilities as employer, insurance, and the use of all tools, tackle, etc., overhead, profit, and all other liabilities whatsoever.

The prices inserted in the Unit Price Tables, includes all applicable federal, provincial and municipal taxes. However, they do not include any amount for the Goods and Services Tax (GST)/Harmonized Sales Tax (HST). The appropriate GST/HST amounts will be paid by Her Majesty to the Offeror in addition to the amount paid against the amount of the contract.

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The estimated quantity entered in column four for each item is an estimate only for service as and when required and does not infer all the quantities for that item will be utilized or that the quantities may not be exceeded.

NOTE: TENDERS WILL BE EVALUATED ON THE TOTAL BID FOR THE FIRST TERM OF THE CONTRACT PLUS THE OPTION YEARS. HOWEVER, ANY CONTRACT AWARD WILL BE FOR THE TERM OF APRIL 1, 2015 TO MARCH 31, 2016.

Item	Class of Service	Unit of Measure	Estimated Quantity	A Term April 1, 2015 to March 31, 2016		B Option Year April 1, 2016 to March 31, 2017		C Option Year April 1, 2017 to March 31, 2018	
				Price per Unit	Total	Price per Unit	Total	Price per Unit	Total
1	Unit rate for Minor maintenance Inspection as per Annex A	per	2						
2	Unit rate for Major Maintenance Inspection as per Annex B	per	1						
3	Unit rate for repairs by a service technician	hour	80						

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Item	Class of Service	Unit of Measure	Estimated Quantity	A Term April 1, 2015 to March 31, 2016		B Option Year April 1, 2016 to March 31, 2017		C Option Year April 1, 2017 to March 31, 2018	
				Price per Unit	Total	Price per Unit	Total	Price per Unit	Total
4	All material will be invoiced at the Contractor's wholesale cost, plus a percentage of mark-up. For tendering purposes, the Contractor will submit their percent of mark-up on material _____% Allowance +Mark Up = Total	Allowance	\$10,000.00	Mark Up In \$ _____	_____	Mark Up In \$ _____	_____	Mark Up In \$ _____	_____
TOTAL FOR FIRST TERM AND OPTION YEARS				\$ _____	A	\$ _____	B	\$ _____	C
TOTAL				\$ _____ A, B and C					

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ANNEX "C"

INSURANCE REQUIREMENTS

ANNEX "C" INSURANCE REQUIREMENTS

Commercial General Liability Insurance

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 \$2,000,000 per accident or occurrence and in the annual aggregate.**
2. The Commercial General Liability 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 Department of National Defence.
 - (b) Bodily Injury and Property Damage to third parties arising out of the operations of the Contractor.
 - (c) 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.
 - (d) 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.
 - (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.
 - (f) 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.
 - (g) Employees and, if applicable, Volunteers must be included as Additional Insured.
 - (h) Employers' Liability (or confirmation that all employees are covered by Worker's compensation (WSIB) or similar program)
 - (i) 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.
 - (j) Notice of Cancellation: The Insurer will endeavour to provide the Contracting Authority thirty (30) days written notice of policy cancellation.
 - (k) 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.

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- (l) Owners' or Contractors' Protective Liability: Covers the damages that the Contractor becomes legally obligated to pay arising out of the operations of a subcontractor.
- (m) Non-Owned Automobile Liability - Coverage for suits against the Contractor resulting from the use of hired or non-owned vehicles.
- (n) Sudden and Accidental Pollution Liability (minimum 120 hours): To protect the Contractor for liabilities arising from damages caused by accidental pollution incidents.

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Buyer ID - Id de l'acheteur

pwb021

Client Ref. No. - N° de réf. du client

W0105-15E031

CCC No./N° CCC - FMS No./N° VME

ANNEX "D" Complete List of Each Individual Who is Currently on the Board of Directors

NOTE TO BIDDERS

WRITE DIRECTORS SURNAMES AND GIVEN NAMES IN BLOCK LETTERS

Solicitation No. - N° de l'invitation

W0105-15E031/A

Client Ref. No. - N° de réf. du client

W0105-15E031

Amd. No. - N° de la modif.

File No. - N° du dossier

PWB-4-37161

Buyer ID - Id de l'acheteur

pwb021

CCC No./N° CCC - FMS No./N° VME

ANNEX "E"

SPECIFICATION



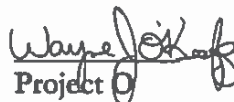
**DEPARTMENT OF NATIONAL DEFENCE
5 ENGINEER SERVICES SQUADRON
5 ENGINEER SERVICES UNIT
5 CDSB GAGETOWN**

SPECIFICATION

**SERVICE CONTRACT
INSPECTION AND MAINTENANCE OF DELTA DIRECT
DIGITAL CONTROL SYSTEM AT HMCS BRUNSWICK,
NEW BRUNSWICK
01 APRIL 2015 TO 31 MARCH 2016
WITH OPTIONS TO RENEW FOR TWO, ONE-YEAR PERIODS**


Designed by


Fire Inspector


Project O


Engineering O

PF No:

Job No: L-S255/21-0301/32

Date: 2014-06-06

<u>Section</u>	<u>Title</u>	<u>Page</u>
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00 21 13	Instructions to Bidders	9
<u>Division 01 - General Requirements</u>		
01 35 30	Health and Safety Requirements	2
01 35 35	DND Fire Safety Requirements	3
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<u>List of Annexes</u>		
Annex A	Minor Remote Operational Inspection	2
Annex B	Major On-Site Operational Inspection	3
Annex C	Points List	3

PART 1 - GENERAL

- 1.1 Description of Work .1 Work under this Service Contract comprises the furnishing of all labour, materials, tools, equipment, software and firmware updates required to complete repairs, remote phone line inspections and annual on-site inspection of the Delta Version 3 Orcaview building automation system at HMCS Brunswicker Naval Reserve as specified herein.
- .2 HMCS Brunswicker Naval Reserve is located at 160 Chesley Drive (1 Navy Way), Saint John, New Brunswick.
- 1.2 Duration of Contract .1 This Service Contract will extend from 01 April 2015 to 31 March 2016 with two, one-year options to renew.
- 1.3 References .1 Canada Labour Code, Part II - Occupational Health and Safety.
- .2 Canadian Electrical Code, CSA C22.1-12.
- .3 American Society of Heating, Refrigeration and Air-Conditioning Engineers (ASHRAE)
.1 Standard 62.1 - Ventilation for Acceptable Indoor Air Quality.
.2 Standard 135 - BACnet Data Communication Protocol for Building Automation and Control Networks.
- 1.4 Building Systems .1 Building Automation Systems included are:
.1 Delta Controls Orcaview Version 3 Energy Management System panels, firmware and software.
.2 All associated control devices, sensors and network wiring.
.3 On-site user-interface workstation.
.4 Pneumatic system thermostats and piping. Compressor inspection and service is not included in this contract.
-

- 1.5 Qualifications .1 The Contractor must be qualified and knowledgeable in the inspection and repair of Delta Orcaview V3 Energy Management Systems and all equipment listed in 1.4.1.
- .2 The Contractor must provide a copy of an agreement with Delta Controls, the Orcaview V3 supplier, to the Engineer before the award of this Service Contract. This must show that the Contractor is qualified to perform the work on this system and that the Contractor can provide the system software, firmware as well as all updates as required.
- .3 The work shall be performed by qualified controls technicians directly employed by the Contractor and trained by the system's manufacturer. The Contractor must provide copies of certificates as proof of training in Delta's Orcaview Version 3 for all technicians assigned to work on these systems. Copies of certificates are to be provided to the Engineer prior to the award of this Service Contract.

- 1.6 Engineer .1 The Engineer, as defined and stated in this specification, will be the Commanding Officer 5 Engineer Services Unit or a designated representative. The address of the Engineer is:

Contracts Office
5 Engineer Services Unit
Building B-18
5 CDSB Gagetown
PO Box 17000 Station Forces
Oromocto, NB E2V 4J5

Tel. (506) 422-2677
Fax. (506) 422-1248

- 1.7 Documents Required .1 Maintain at the job site, one copy each of the following:
- .1 Specification.
.2 All Addenda.
.3 Electronic copies of all panel databases, current sequence of operations, floorplan showing all device locations and up-to-date points lists.

-
- 1.8 Contractor's Use of Site
- .1 Access to the work site is to be as directed by the Engineer.
 - .2 Movement around the site is subject to restrictions laid down by the Engineer.
 - .3 Do not unreasonably encumber site with materials or equipment.
- 1.9 Power and Water
- .1 DND can provide, free of charge, temporary electric power and water for the purposes of this agreement.
 - .2 Engineer will determine delivery points and quantitative limits. Engineer's written permission is required before any connection is made. Connect to existing power supply in accordance with Canadian Electrical Code, CSA C22.1-12.
 - .3 Contractor to provide, at no cost to DND, all equipment and temporary lines to bring these services to work site.
 - .4 Supply of temporary services by DND is subject to DND requirements and may be discontinued by Engineer at any time without notice or acceptance of any liability for damage or delay caused by such withdrawal of temporary services.
- 1.10 Acceptability of Material
- .1 Material and parts used will be those specified by the manufacturer of the equipment and any other material will require the approval of the Engineer.
 - .2 Provide material and equipment of specified design and quality, performing to published ratings and for which replacement parts are readily available.
 - .3 The Contractor will not make any change in the design and installation of equipment and materials without the prior written approval of the Engineer.
 - .4 If, in an emergency, the Contractor installs parts other than those specified, they will be replaced with specified parts before claiming payment, but no claim for other than specified parts will be made.
-

- 1.10 Acceptability of Material (Cont'd)
- .5 All replaced parts and materials not under warranty, whether serviceable or unserviceable will be left on site for inspection on completion of the work.
 - .6 All manufactured articles, materials and equipment will be applied, installed, connected and used as specified by the manufacturer.
 - .7 Requests for acceptance of material other than those specified will be submitted in writing to the Engineer. The request must be supported with sufficient product information to enable the Engineer to make an assessment.
- 1.11 Guarantee
- .1 The Contractor will guarantee all materials and workmanship for a period of one year or the manufacturer's guarantee, whichever is longer, after acceptance by the Engineer. Any defects which may develop during this period will be rectified and made good to the satisfaction of the Engineer, by the Contractor at their own expense.
- 1.12 Codes and Standards
- .1 Observe and enforce construction safety measures required by Canada Labour Code Part II and the WorkSafeNB. Contractor must be registered and in good standing with the WorkSafeNB and provide proof of such to PWGSC prior to the award of this Service Contract.
 - .2 All line-voltage electrical work is to conform to the Canadian Electrical Code, 2012. Line voltage work is to be performed by a journeyman electrician certified by the New Brunswick Department of Post-Secondary Education, Training and Labour or appropriate governmental department of the Contractor's province.
 - .3 All low-voltage control wiring and control device installations are to conform to the highest quality industry standards and as directed by the Engineer.
 - .4 All programming and sequences are to be such that they provide indoor air quality as per
-

- 1.12 Codes and Standards (Cont'd)
- .4 (Cont'd)
the recommendations detailed in the ASHRAE Standard 62.1.
 - .5 All network communication protocols to conform to ASHRAE Standard 135.
 - .6 Direct Digital Controls installation technicians will use wiring installation standards to ensure all wire used meets appropriate codes. In mechanical rooms all wire will be in raceways or conduit. Above ceiling plenum installations will use plenum rated wire and tie wraps to secure the wire in a high location. Additionally, above ceiling plenum wiring will never be tied off to other trades' piping or hangers.
- 1.13 Overloading
- .1 Contractor is responsible to ensure that no part of the work performed or equipment installed subjects adjacent structures to unsafe loads or permanent deformation.
- 1.14 Temporary Structures
- .1 The Contractor will furnish and maintain all equipment such as temporary stairs, ramps, ladders, scaffolds, hoists, chutes, etc, as may be required for the proper execution of the work.
 - .2 Temporary structures erected by the Contractor will be removed by them from the site upon completion of the work.
- 1.15 Clean Up
- .1 Upon completion of work, remove surplus materials, tools, equipment, and debris. The Contractor will not remove any salvageable material or equipment from the job site without permission from the Engineer.
 - .2 Site will be left in a neat and tidy condition at the end of each work day to the complete satisfaction of the Engineer.
-

1.16 Maintenance .1
Inspections

Provide operational inspections as follows:

.1 Provide two (2) Minor Remote Inspections, one during the month of January and one during the month of May as per Annex A.

.2 Provide one (1) Major On-Site Inspection during the month of September as per Annex B.

.3 All inspections to include a complete point verification checklist and all contractor's recommendations for repairs on the Delta Orcaview Building Automation System. Major inspections include all upgrades as recommended by the manufacturer, Delta Controls. Major inspections to include all mechanical adjustments to control devices, calibrations, cleaning and a review of the sequence and programming of all control panels.

.4 The Contractor will provide their own computer, necessary software and equipment for all inspections.

.5 All telephone charges required to do Minor Remote Inspections will be included in the Contractor's submitted bid price. No additional charges for remote connection to the system will be accepted.

.2 Up-to-date points lists will be generated by the contractor at the time of each inspection. For bidding purposes, bidders will use the points list in Annex C to submit prices. Changes to points lists, either adjustments or additions will not constitute changes to inspection prices unless deemed significant and approved by the Engineer.

.3 There are approximately fifteen (15) thermostat/heater valve stand-alone pneumatic control loops at HMCS Brunswick Naval Reserve that require inspection. These control devices do not appear on the points list as they are not directly controlled by the DDC system. These are included in the Service Contract's Major On-site inspections and must appear on the points verification check list itemized by room number where the thermostat is located.

- 1.17 Quantities and Basis For Payment .1 The work performed under this Service Contract will be paid for on a unit price basis. The Contractor will accept the payment as full consideration for everything furnished and done by him with respect to the work.
- .2 The Contractor will submit costs per inspection, hourly rate and a material mark up percentage in accordance with the specifications. Such prices will include supervision, expenses, tools, equipment, transportation (travel time to and from the contractors base of operation will be included in the rates provided) and profit.
- .3 Time charged and contract price of material (if any) used may be verified by Government Audit before or after payment is made under the terms of this Service Contract.
- .4 The Contractor will provide service during normal working hours on an eight (8) hour per day, five (5) days per week basis 0730hrs to 1600hrs Monday to Friday inclusive and emergency service after normal working hours, to include weekends and holidays.
- .5 The Contractor will advise the Engineer of the telephone number or location at which they or their representative may be contacted at all times.
- .6 The Contractor, upon receipt of an authorized contract, will be advised by the Engineer in writing of the names of persons authorized to request service. Work undertaken at the request of others, such as building occupants, will be entirely at the Contractor's risk with regard to payment.
- .7 The Contractor will not refuse any call for service by the Engineer and will initiate the work within 24 hours on normal service calls and within 4 hours on emergency service calls.
- .8 When service is required, the Engineer will notify the Contractor and detail the job. When requested by the Engineer, a written estimate shall be provided by the Contractor indicating estimated labour and material costs in accordance with the Service Contract.

- 1.17 Quantities and .9 The Contractor will report to the Engineer
Basis For Payment prior to starting work and upon completion
(Cont'd) of work on a daily basis to sign in and out.
- .10 After reporting, the Contractor will proceed to the job and carry out the work. The contractor will provide daily work reports to the Engineer detailing work performed, contractor's employees assigned to work, location or building number of work site, hours worked for each employee, trade of each employee and materials used in the completion of the work and any recommendations for additional work that may be required. This work report must indicate the work order number and the requisition number on which the work was requested from the Engineer. Contractor is to have the Engineer sign the work report either at the end of the work day or at the beginning of the next work day while signing in. The Standard Operating Procedure (SOP) for work reports will be provided to the successful bidder after award of Contract. Please note that this SOP is for contract work done on an hourly rate basis only and does not apply to set inspections or services done on a lump sum basis.
- .11 One invoice covering all charges for each Service Request or Inspection will be submitted to the Engineer with a copy of the signed Service Request. The invoice must indicate Contract, Work Order and Requisition numbers issued on the Work Request. The invoice must itemize technicians' names, dates and hours worked, materials used complete with copies of the contractor's invoices verifying correct mark-up on materials. The Contractor is to return one copy of the signed work request with their invoice, as well as copies of all weekly inspection reports and copies of all contractor's wholesale invoices for material used in the completion of the work. Invoices must detail the location and description of work performed for each work request.
- .12 The Contractor will submit his invoice for payment to the Engineer within 15 working days of completion of each work request.

1.18 Security
Clearances

- .1 The Contractor shall maintain an up to date roster of all employees involved in this contract including managers, supervisors and technicians. This roster shall be made available to the Engineer upon request.
- .2 The Contractor shall provide proof of the information contained within the roster to the Engineer upon request. The Engineer reserves the right to have removed from the site those personnel who do not meet security requirements as laid down by the Military Police Section.
- .3 Security procedures require, that when requested by the Engineer, the contractor will provide to the Engineer at no cost to DND, a copy of a Canadian Police Certificate For Employment for each employee who will work on this Service Contract.

PART 1 - GENERAL

- 1.1 References .1 Canada Labour Code, Part II, Canada Occupational Safety and Health Regulations.
- .2 Province of New Brunswick Occupational Health and Safety Act, 1991.
- .3 National Building Code of Canada, 2010.
- 1.2 Regulatory Requirements .1 Do work in accordance with the safety measures of the National Building Code of Canada 2010, the Canada Labour Code Part II, the New Brunswick Occupational Health and Safety Act and WorkSafeNB provided that in any case of conflict or discrepancy the more stringent requirements shall apply.
- 1.3 Responsibility .1 Contractor is responsible for the health and safety of all persons on site. Contractor is also responsible for the protection of property, persons and the environment on or adjacent to the site in so far as the work may affect these.
- .2 Contractor and all contractor's employees are to comply with all safety requirements specified in the Contract Documents as well as all applicable federal, provincial and local statutes, regulations, ordinances and with Contractor's site-specific Health and Safety Plan.
- .3 As outlined in the Canada Labour Code Part II, the Contractor is responsible to provide a site-specific Health and Safety Plan that includes a Confined Space Entry Procedure in the event that work is deemed by the Engineer to be in a confined space. Work is not to begin until this Health and Safety Plan is submitted and approved by the Engineer.
- .4 5 CDSB Gagetown 5 Engineer Services Unit employs a Lock Out/Tag Out program to prevent work related injuries due to electrical or mechanical systems being energized while personnel are working in or around these systems. The Contractor must respect these locks and tags when encountered. Do not
-

- 1.3 Responsibility .4 (Cont'd)
(Cont'd)
- forcibly remove these locks and/or tags at any time. If the Contractor requires that these be removed to perform work, a request is to be made to the Engineer for such removal.
- .5 As per the Canada Labour Code Part II, it is the Contractor's responsibility to employ their own Lock Out/Tag Out program to ensure that equipment is not energized by other personnel while they are working in or around equipment.
- .6 It is the Contractor's responsibility to ensure that all their employees are provided all Personal Protective Equipment (PPE) necessary to perform all work. Hard hats and safety glasses are to be worn at all times.
- 1.4 Unforeseen Hazards .1 Should any unforeseen or peculiar safety-related factor, hazard, or condition become evident during performance of work, the Contractor must have procedures in place to facilitate the Employee's Right to Refuse Work in accordance with Acts and Regulations of New Brunswick. The Contractor is to advise the Engineer verbally and in writing of any employee who exercises this right.
- 1.5 Correction of Non-Compliance .1 Immediately address health and safety non-compliance issues identified by authority having jurisdiction or by Engineer.
- .2 Provide Engineer with written report of action taken to correct non-compliance of health and safety issues identified.
- .3 Engineer may stop work if non-compliance of health and safety regulations is not corrected.
- 1.6 Work Stoppage .1 Give precedence to safety and health of public and site personnel and protection of environment over cost and schedule considerations for work.
-

PART 1 - GENERAL

- 1.1 Reporting Fires .1 Know location of nearest fire alarm box and telephone, including emergency phone number.
- .2 Report immediately all fire incidents to Fire Department as follows:
.1 telephone 911.
- .3 When reporting fire by telephone, give location of fire, name or number of building and be prepared to verify the location.
- 1.2 Interior and Exterior Fire Protection and Alarm Systems .1 Fire protection and alarm system will not be:
.1 obstructed;
.2 shut-off; and
.3 left inactive at end of working day or shift without authorization from Fire Chief.
- .2 Fire hydrants, standpipes and hose systems will not be used for other than fire-fighting purposes unless authorized by Fire Chief.
- 1.3 Fire Extinguishers .1 Supply fire extinguishers, as scaled by Fire Chief, necessary to protect work in progress and contractor's physical plant on site.
- 1.4 Blockage of Roadways .1 Advise Fire Chief of any work that would impede fire apparatus response. This includes violation of minimum overhead clearance, as prescribed by Fire Chief, erecting of barricades and digging of trenches.
- 1.5 Smoking Precautions .1 Observe smoking regulations at all times.
- 1.6 Rubbish and Waste Materials .1 Rubbish and waste materials are to be kept to a minimum.
- .2 Burning of rubbish is prohibited.

- 1.6 Rubbish and Waste Materials (Cont'd)
- .3 Removal:
 - .1 Remove all rubbish from work site at end of work day or shift or as directed.
 - .4 Storage:
 - .1 Store oily waste in approved receptacles to ensure maximum cleanliness and safety.
 - .2 Deposit greasy or oily rags and materials subject to spontaneous combustion in approved receptacles and remove.
- 1.7 Flammable and Combustible Liquids
- .1 Handling, storage and use of flammable and combustible liquids are to be governed by the current National Fire Code of Canada.
 - .2 Flammable and combustible liquids such as gasoline, kerosene and naphtha will be kept for ready use in quantities not exceeding 45 litres provided they are stored in approved safety cans bearing Underwriters' Laboratory of Canada or Factory Mutual seal of approval. Storage of quantities of flammable and combustible liquids exceeding 45 litres for work purposes requires permission of Fire Chief.
 - .3 Transfer of flammable and combustible liquids is prohibited within buildings or jetties.
 - .4 Transfer of flammable and combustible liquids will not be carried out in vicinity of open flames or any type of heat-producing devices.
 - .5 Flammable liquids having a flash point below 38° C such as naphtha or gasoline will not be used as solvents or cleaning agents.
 - .6 Flammable and combustible waste liquids, for disposal, will be stored in approved containers located in a safe ventilated area. Quantities are to be kept to a minimum and Fire Department is to be notified when disposal is required.
- 1.8 Hazardous Substances
- .1 Work entailing use of toxic or hazardous materials, chemicals and/or explosives, or otherwise creating hazard to life, safety or health, will be in accordance with National Fire Code of Canada.
-

- 1.8 Hazardous Substances (Cont'd)
- .2 Obtain from Fire Chief a "Hot Work" permit for work involving welding, burning or use of blow torches and salamanders in buildings or facilities.
 - .3 When Work is carried out in dangerous or hazardous areas involving use of heat, provide fire watchers equipped with sufficient fire extinguishers. Determination of dangerous or hazardous areas along with level of protection necessary for Fire Watch is at discretion of the Fire Chief. Contractors are responsible for providing fire watch service for work on a scale established and in conjunction with Fire Chief at pre-work conference.
 - .4 Where flammable liquids, such as lacquers or urethanes are to be used, proper ventilation will be assured and all sources of ignition are to be eliminated. Fire Chief is to be informed prior to and at cessation of such work.
- 1.9 Questions and/or Clarification
- .1 Direct any questions or clarification on Fire Safety in addition to above requirements to Fire Chief through the Engineer.
- 1.10 Fire Inspection
- .1 Site inspections by Fire Chief will be coordinated through Engineer.
 - .2 Allow Fire Chief unrestricted access to work site.
 - .3 Co-operate with Fire Chief during routine fire safety inspection of work site.
 - .4 Immediately remedy all unsafe fire situations observed by Fire Chief.

PART 1 - GENERAL

- 1.1 General .1 Contractor will take all reasonable steps to ensure that they and their employees have complied with all pertinent legislation and have protected the environment.
- 1.2 Fires .1 Fires and burning of rubbish on site not permitted.
- 1.3 Disposal of Wastes .1 Do not bury rubbish and waste materials on site unless approved by Engineer.
- .2 Do not dispose of waste or volatile materials, such as mineral spirits, oil or paint thinner into waterways, storm or sanitary sewers.
- 1.4 Spill Protection .1 The Contractor must have adequate clean up materials for any potential hazardous materials used in the completion of the work (ie. fuels, oils, lubricants, etc).

MINOR OPERATIONAL REMOTE INSPECTION OF BUILDING AUTOMATION SYSTEM

.1 Dates:

- .1 Minor Remote Inspections are to be completed twice a year. The first remote inspection is to be done in the month of April in conjunction with the shutdown of heating systems or change over to summer months programming. The second is to be done during the month of January.

.2 Network Remote Inspections:

- .1 Connect via phone line modem to Delta System Controller on site at Naval Reserve.
- .2 Check connectivity of all subpanels on network and confirm proper connection speed.

.3 Delta Orcaview V3 End Devices Remote Inspection:

- .1 Review the system for alarms. Reset alarms and determine cause. Include recommendations in inspection report with respect to any and all alarm/event conditions.
- .2 Review the system for inputs/outputs in manual override state. Ensure inputs/outputs in manual override are included in report and Contract Manager is aware.
- .3 Save all panels' databases. Provide to Contracts Manager upon request.
- .4 Toggle all outputs on/off or modulate through range and verify proper system response. Prepare a points list that includes point number, name, type and verified movement.
- .5 Verify all inputs have reasonable values and are responding to associated output modulation. Include observed values in points verification checklist.

.4 Upgrades:

- .1 All software upgrades on Workstation and firmware upgrades to panels are to be completed during the major inspection. No upgrades are to be done remotely.

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.5 Schedules:

- .1 Ensure panel time and date are accurate. Ensure all annual schedules are set for proper heating season end date. Confirm this date with Contracts Manager.

.6 Inspection Report:

- .1 Provide verification checklist and all recommendations regarding control system and mechanical system devices that appear faulty and include in report submitted with inspection invoice to Contracts Manager.

MAJOR ON-SITE OPERATIONAL INSPECTION OF BUILDING AUTOMATION SYSTEM

.1 Date:

- .1 Major On-Site Inspection is to be completed once per year. This inspection is to be completed in October in conjunction with the start of heating season.

.2 LCD Interface Panel:

- .1 Check the display for clarity, focus and colour.
- .2 Clean the exterior surfaces.
- .3 Save and copy all control panels' databases, including custom graphics to hard drive and provide to Contracts Manager upon request

.3 Fan systems, exhaust fans, destratification fans and HVAC unit controls:

- .1 Review the sequence of operation.
- .2 Check the operation of all dampers.
- .3 Check the pilot positioners.
- .4 Check all control valves.
- .5 Calibrate all controllers as required.
- .6 Calibrate all transmitters and set receiver gauges as required.
- .7 Check all solenoid air valves, PE switches and air valves for proper operation.
- .8 Check auxiliary control devices.

.4 Room terminal unit controls:

- .1 Check all room temperature sensors and calibrate as required;
- .2 Check all control valves and report condition;
- .3 Check the operation of all dampers;
- .4 Check all PE switches, solenoid air valves and limit controls; and
- .5 Check operation of auxiliary devices.
- .6 Check all thermostat operation and associated radiator valves. Report evidence of leaks and any thermostat problems in inspection report

.5 Boiler Controls:

- .1 Check all valves for full range of modulation and enable for on/off operation. Check all pumps for on/off operation. Note: Control devices integral to boiler

are not included in this inspection.

- .2 Check remote dial-out alarm system for operation. Recommend battery replacement if necessary.

.6 System Controllers:

- .1 Check the LED indications to verify proper DC power levels, transmit and receive activity and check for possible error code indications.
- .2 Inspect wiring for signs of corrosion and fraying.
- .3 Replace Battery.
- .4 Cycle panel power to initiate self-test diagnostic and monitor lead sequencing for proper self-test displays or error code indications.
- .5 Remove dust from heat sink surfaces.
- .6 Clean the unit's exterior surfaces.
- .7 Verify the proper operation of the critical control processes and points associated with this unit and make adjustments if necessary.
- .8 Upgrade firmware if available.

.7 Application specific controllers:

- .1 Verify that the panel is in control at the desired values.
- .2 Change one set point value to verify smooth transmission and stable control at the new set point.
- .3 Return the set point to its original value.
- .4 Repeat this test for each additional control loop.
- .5 Verify that the controlled valves and the dampers will stroke fully in both directions, sealing tightly where appropriate.
- .6 Verify the proper operation of the critical control processes and points associated with this unit. Make adjustments as required.
- .7 Upgrade firmware if available.

.8 Network Analyses:

- .1 Ensure proper network performance.
- .2 Ensure proper addressing of panels.
- .3 Confirm proper data transfer speed.
- .4 Confirm proper modem operation. Include modem phone line number in report.

.9 Points List Check List

- .1 Provide a points list check list as in the minor remote inspections and provide all recommendations in an inspection report to Contracts Manager with

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- invoice.
 - .2 Include all stand alone control points such as thermostats and valves in points list and check off as inspected.
- .10 **Inspection Report:**
 - .1 Prepare a written inspection report that includes the points verification check list and all recommendations for repairs and additions to Direct Digital Control System. Outline all potential energy saving adjustments to system. List all model numbers and approximate cost of system components that require replacement and provide estimates of hours of labour to replace. Ensure that report is dated and signed by technician(s) performing inspection. Submit inspection report with invoice to Contracts Manager promptly after inspection.

Annex C
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HMCS Brunswicker Naval Reserve DDC System Points List

Panel:
 Address: CP10001
 Location:

INPUTS		OUTPUTS	
IP #	DESCRIPTION	OP #	DESCRIPTION
1	BR1 S1 SAT	1	BR1 S1 Starter
2	BR1 S1 RAT	2	BR1 R1 Starter
3	BR1 S1 MAT	3	BR1 S1 P10 Starter
4	BR1 S1 SF Status	4	BR1 S1 Humidifier Starter
5	BR1 S1 RF Status	5	
6	BR1 S1 SAH	6	
7	BR1 S1 RAH	7	BR1 S1 MAD
8	BR1 S1 Freezstat	8	BR1 S1 Heating
9	BR1 S1 Filter Status	9	BR1 S1 Humidifier
10	BR1 S1 P10 Status		
11	BR1 oat		
12			

HMCS Brunswicker Naval Reserve DDC System Points List

Panel:
 Address: CP10002
 Location:

INPUTS		OUTPUTS	
IP #	DESCRIPTION	OP #	DESCRIPTION
1	BR1 S5 SAT	1	BR1 S5 SF Starter
2		2	BR1 S5 RF Starter
3	BR1 S5 PHT	3	BR1 S5 P15 Starter
4	BR1 S5 SF Status	4	BR1 Pump Alarm
5	BR1 S5 RF Status	5	BR1 General Alarm
6		6	
7		7	BR1 S5 OAD
8	BR1 S5 Freezstat	8	BR1 S5 HTG
9	BR1 S5 Filter Status	9	
10	BR1 S5 P15 Status		
11	BR1 Air Compressor Pressure		
12			

HMCS Brunswicker Naval Reserve DDC System Points List

Panel:
 Address: CP10003
 Location:

INPUTS		OUTPUTS	
IP #	DESCRIPTION	OP #	DESCRIPTION
1	BR1 S4 Ovrld PB	1	
2	BR1 S3 Rm151 Ovrld PB	2	
3	BR1 S1 Ovrld PB	3	
4	BR1 S3 Rm202A Ovrld PB	4	
5	BR1 S8 FilterStatus	5	
6	BR1 S9 Filter Status	6	
7		7	
8		8	
9		9	
10		10	
11		11	
12		12	

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 2014-06-06

HMCS Brunswicker Naval Reserve DDC System Points List
 Panel:
 Address: CP10004
 Location:

INPUTS		OUTPUTS	
IP #	DESCRIPTION	OP #	DESCRIPTION
1	BR1 S2 SAT	1	BR1 S2 SF Starter
2	BR1 S2 RAT	2	BR1 S2 RF Starter
3	BR1 S2 MAT	3	BR1 S2 P11 Starter
4	BR1 S2 SF Status	4	BR1 S2 Humidifier Starter
5	BR1 S2 RF Status	5	
6	BR1 S2 SAH	6	
7	BR1 S2 RAH	7	BR1 S2 MAD
8	BR1 S2 Freezstat	8	BR1 S2 Heating
9	BR1 S2 Filter Status	9	BR1 S2 Humidifier
10	BR1 S2 P10 Status	10	
11		11	
12		12	

HMCS Brunswicker Naval Reserve DDC System Points List
 Panel:
 Address: CP10005
 Location:

INPUTS		OUTPUTS	
IP #	DESCRIPTION	OP #	DESCRIPTION
1	BR1 S3 SAT	1	BR1 S3 SF Starter
2	BR1 S3 RAT	2	BR1 S3 RF Starter
3	BR1 S3 MAT	3	BR1 S3 P11 Starter
4	BR1 S3 SF Status	4	BR1 S3 Humidifier Starter
5	BR1 S3 RF Status	5	
6	BR1 S3 SAH	6	
7	BR1 S3 RAH	7	BR1 S3 MAD
8	BR1 S3 Freezstat	8	BR1 S3 Heating
9	BR1 S3 Filter Status	9	BR1 S3 Humidifier
10	BR1 S3 P10 Status	10	
11		11	
12		12	

HMCS Brunswicker Naval Reserve DDC System Points List
 Panel:
 Address: CP10006
 Location:

INPUTS		OUTPUTS	
IP #	DESCRIPTION	OP #	DESCRIPTION
1	BR1 S6 SAT	1	BR1 S6 SF Starter
2		2	BR1 S6 F6A Starter
3	BR1 S6 PHT	3	BR1 S6 P16 Starter
4	BR1 S6 SF Status	4	
5	BR1 S6 F6A Status	5	
6	BR1 S6 F6A Hi Limit	6	
7	BR1 S6 F6A Enable	7	BR1 S6 OAD
8	BR1 S6 Freezstat	8	BR1 S6 Heating
9	BR1 S6 Filter Status	9	
10	BR1 S6 P16 Status	10	
11		11	
12		12	

Annex C

Job No. L-S255/21-0301/32

2014-06-06 HMCS Brunswicker Naval Reserve DDC System Points List

Panel:

Address: CP10007

Location:

INPUTS		OUTPUTS	
IP #	DESCRIPTION	OP #	DESCRIPTION
1	BR1 S4 SAT	1	BR1 S4_SF Starter
2	BR1 S4 RAT	2	BR1 S4_RF Starter
3	BR1 S4 MAT	3	BR1 S4_P13 Starter
4	BR1 S4_SF Status	4	BR1 S4_Humidifier Starter
5	BR1 S4_RF Status	5	
6	BR1 S4 SAH	6	
7	BR1 S4 RAH	7	BR1 S4_MAD
8	BR1 S4_FreezeStat	8	BR1 S4_Heating
9	BR1 S4_Filter Status	9	BR1 S4_Humidifier
10	BR1 S4_P13 Status	10	
11			
12			

HMCS Brunswicker Naval Reserve DDC System Points List

Panel:

Address: CP10008

Location:

INPUTS		OUTPUTS	
IP #	DESCRIPTION	OP #	DESCRIPTION
1	BR1 S9 SAT	1	BR1 S9_SF Starter
2	BR1 S9_Rm139	2	BR1 S9_RF Starter
3	BR1 S9_Rm143	3	BR1 S8_SF Lo Speed
4	BR1 S9_SF Status	4	BR1 S8_SF_Hi Speed
5	BR1 S9_RF Status	5	
6	BR1 S9_FreezeStat	6	
7	BR1 S8 SAT	7	BR1 S9_MAD
8	BR1 S8_Rm201A	8	BR1 S9_Rm139_Damper
9	BR1 S8_Rm201B	9	BR1 S8_MAD
10	BR1 S8_SF Status	10	
11	BR1 S8_FreezeStat		

HMCS Brunswicker Naval Reserve DDC System Points List

Panel:

Address: CP10009

Location:

INPUTS		OUTPUTS	
IP #	DESCRIPTION	OP #	DESCRIPTION
1	BR1 P1 Status	1	BR1_P1 Starter
2	BR1 P2 Status	2	BR1_P2 Starter
3	BR1 P3 Status	3	BR1_P3 Starter
4	BR1 P4 Status	4	BR1_P4 Starter
5	BR1 P5 Status	5	BR1_P5 Starter
6	BR1 P6 Status	6	BR1_P6 Starter
7	BR1 P7 Status	7	BR1_P7 Starter
8	BR1 P9 Status	8	BR1_P9 Starter
9	BR1 HWS	9	BR1_GWS Vlv
10	BR1 GWS	10	BR1_Htg Pump Lockout
11	BR1_OAT2		