



**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  
Bid Fax: (506) 636-4376

**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

<b>Title - Sujet</b> Maintenance Services - Transformer	
<b>Solicitation No. - N° de l'invitation</b> W6837-175284/A	<b>Date</b> 2016-11-29
<b>Client Reference No. - N° de référence du client</b> W6837-175284	<b>GETS Ref. No. - N° de réf. de SEAG</b> PW-\$PWB-021-4011
<b>File No. - N° de dossier</b> PWB-6-39110 (021)	<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 2016-12-15</b>	
<b>Time Zone</b> <b>Fuseau horaire</b> Atlantic Standard Time AST	
<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> Reay, Darlene	<b>Buyer Id - Id de l'acheteur</b> pwb021
<b>Telephone No. - N° de téléphone</b> (902) 566-7518 ( )	<b>FAX No. - N° de FAX</b> (506) 636-4376
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> DEPARTMENT OF NATIONAL DEFENCE Real Property Operations Detachment BLDG B18, 238 CHAMPLAIN AVE. OROMOCTO New Brunswick E2V4J5 Canada	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

<b>Delivery Required - Livraison exigée</b> See Herein	<b>Delivery Offered - Livraison proposée</b>
<b>Vendor/Firm Name and Address</b> <b>Raison sociale et adresse du fournisseur/de l'entrepreneur</b>	
<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> <b>(type or print)</b> <b>Nom et titre de la personne autorisée à signer au nom du fournisseur/</b> <b>de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>	
<b>Signature</b>	<b>Date</b>

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pwb021  
CCC No./N° CCC - FMS No./N° VME

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**MAINTENANCE SERVICES -  
TRANSFORMER MAINTENANCE AND TESTING  
5 CDSB GAGETOWN AND DETACHMENT MONCTON N.B.**

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## **PART 1 - GENERAL INFORMATION**

### **1.1 Requirement**

The work covered under this Service Contract comprises the furnishing of all labour, material, tools and equipment required to conduct annual preventative maintenance testing for specified transformers, and providing written reports of the testing as required for the transformers located at 5 CDSB Gagetown and Detachment Moncton, as specified herein.

This Service Contract will extend from April 01, 2017 to March 31, 2018, with two (2) one (1) year option periods. The services must be provided in accordance with the Specification attached at Annex "E"

### **1.2 Debriefings**

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

### **1.3 Trade Agreements**

The requirement is subject to the provisions of the World Trade Organization Agreement on Government Procurement (WTO-AGP), the North American Free Trade Agreement (NAFTA), and the Agreement on Internal Trade (AIT)

## **PART 2 - BIDDER INSTRUCTIONS**

### **2.1 Standard Instructions, Clauses and Conditions**

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the *Standard Acquisition Clauses and Conditions Manual* (<https://buyandsell.gc.ca/policy-andguidelines/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 (2016-04-04) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

#### **2.1.1 SACC Manual Clauses**

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

## 2.2 Submission of Bids

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

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;
- (d) Must be received prior to bid closing time and at the designated place and facsimile number - FACSIMILE NUMBER IS (506-636-4376).

### NOTE: FACSIMILE BIDS

Only incorrect handling by the Department of Public Works and Government Services will excuse the delay of responses transmitted by facsimile. Misrouting, traffic volume, weather disturbances, or any cause for the late receipt of such responses are not acceptable.

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

### NOTE: THIS IS NOT A PUBLIC OPENING

## 2.3 Former Public Servant A3025T (2014-06-26)

Contracts awarded to 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 awarded to FPSs, bidders must provide the information required below before contract award. If the answer to the questions and, as applicable the information required 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 with Canada's request and meet the requirement within the prescribed time frame will render the bid nonresponsive.

### **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.

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"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 FPSs 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 Adjustment Directive**

Is the Bidder a FPS who received a lump sum payment pursuant to the terms of the Work Force Adjustment Directive? **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 adjustment 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 Applicable Taxes.

## **2.4 Enquiries - Bid Solicitation**

All enquiries must be submitted in writing to the Contracting Authority no later than five (5) calendar days before the bid closing date. Enquiries received after that time may not be answered. Bidders should reference as accurately as possible the numbered item of the bid solicitation to which the enquiry relates. Care should be taken by bidders to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly marked "proprietary" at each relevant item. Items identified as "proprietary" will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the question(s) or may request that the Bidder do so, so that the proprietary nature of the question(s) is eliminated, and the enquiry can be answered to all bidders. Enquiries not submitted in a form that can be distributed to all bidders may not be answered by Canada.

## **2.5 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.

## **2.6 Insurance Requirements – G1007T (2011-05-16)**

The Bidder must provide a letter from an insurance broker or an insurance company licensed to operate in Canada stating that the Bidder, if awarded a contract as a result of the bid solicitation, can be insured in accordance with the Insurance Requirements specified in Annex "C". If the information is not provided in the bid, the Contracting Authority will so inform the Bidder and provide the Bidder with a time frame within which to meet the requirement. Failure to comply with the request of the Contracting Authority and meet the requirement within that time period will render the bid non-responsive.

## **2.7 Workers Compensation Certification - Letter of Good Standing – A0285T (2012-07-16)**

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 nonresponsive.

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

### **3.1 Bid Preparation Instructions**

Prices must appear in the financial bid only. No prices must be indicated in any other section of the 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 Applicable Taxes must be shown separately.

### **Section III: Certifications**

Bidders must submit the certifications and additional information required under Part 5.

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

### **4.1 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 AND ADDITIONAL INFORMATION**

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

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

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

### **5.1 Certifications Required with the Bid**

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

#### **5.1.1 Integrity Provisions - Declaration of Convicted Offences**

In accordance with the *Ineligibility and Suspension Policy* (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide with its bid the required documentation, as applicable, to be given further consideration in the procurement process.

## 5.2 Certifications Precedent to Contract Award and Additional Information

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

### 5.2.1 Integrity Provisions – Required Documentation

In accordance with the [Ineligibility and Suspension Policy \(http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html\)](http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html), the Bidder must provide the required documentation, as applicable, to be given further consideration in the procurement process.

### 5.2.2 Federal Contractors Program for Employment Equity - Bid Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "[FCP Limited Eligibility to Bid](#)" list available at the bottom of the page of the [Employment and Social Development Canada \(ESDC\) - Labour's](#) website ([http://www.esdc.gc.ca/en/jobs/workplace/human\\_rights/employment\\_equity/federal\\_contractor\\_program.page?&\\_ga=1.229006812.1158694905.1413548969](http://www.esdc.gc.ca/en/jobs/workplace/human_rights/employment_equity/federal_contractor_program.page?&_ga=1.229006812.1158694905.1413548969)).

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

## PART 6 - RESULTING CONTRACT CLAUSES

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

### 6.1 Security Requirements

6.1.1 There is no security requirement applicable to this Contract

### 6.2 Requirement

The Contractor must perform the Work in accordance with the Statement of Work at Annex "E".

### 6.3 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 \(https://buyandsell.gc.ca/policy-and-guidelines/standardacquisition-clauses-and-conditions-manual\)](https://buyandsell.gc.ca/policy-and-guidelines/standardacquisition-clauses-and-conditions-manual) issued by Public Works and Government Services Canada.

### **6.3.1 General Conditions**

2010C (2016-04-04), General Conditions - Services (Medium Complexity) apply to and form part of the Contract.

### **6.4 Term of Contract**

#### **6.4.1 Period of the Contract**

This Service Contract will extend from 01 Contract Apr 2017 to 31 March 2018.

#### **6.4.2 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.

### **6.5 Authorities**

#### **6.5.1 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, Prince Edward Island  
C1A 4A2  
Telephone: 902-566-7518  
Facsimile: 902-566-7514  
E-mail address: [darlene.reay@pwgsc.gc.ca](mailto: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.

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## 6.5.2 Project Authority

The Project Authority for the Contract is: *Will be made available at time of award*

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.

## 6.5.3 Contractor's Representative

Name:

Title:

Organization:

Address:

Telephone :

Facsimile:

E-mail address:

## 6.6 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.

## 6.7 Payment

### 6.7.1 Basis of Payment

Basis of payment is in accordance with Annex "B" and section 12, Payment Period, of the 2010C (2016-04-04), General Conditions - Services (Medium Complexity).

### 6.7.2 Limitation of Price

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

### 6.7.3 Monthly Payment

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

## 6.8 Invoicing Instructions

The Contractor must submit invoices in accordance with the information required in section 10, Invoice Submission, of the 2010C (2016-04-04), General Conditions - Services (Medium Complexity).

## 6.9 Certifications and Additional Information

### 6.9.1 Compliance

Unless specified otherwise, the continuous compliance with the certifications provided by the Contractor in its bid or precedent to contract award, and the ongoing cooperation in providing additional information are conditions of the Contract and failure to comply will constitute the Contractor in default. Certifications are subject to verification by Canada during the entire period of the Contract.

## 6.10 Applicable Laws

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

## 6.11 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 Articles of Agreement;
- (b) the general conditions 2010C (2016-04-04)
- (c) Annex E, Requirement;
- (d) the Contractor's bid dated \_\_\_\_\_

## 6.12 Defence Contract

SACC *Manual* clause **A9006C** (2012-07-16) Defence Contract

## 6.13 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**

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

**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

Within seven days of request from Contracting Authority and prior to award of the Service Contract

5. Proof of current High Voltage Electrical Mechanic and/or High Voltage Linesman License's specializing in High voltage installations as per Specification section 1.3 Qualifications
6. Certification of level 1 thermographer as per Specification section 1.3 Qualifications.
7. Proof of two (2) years High voltage Electrical Contracting experience.
8. Qualifications of other workers who will be performing work as per Specification section 1.3.2 Qualifications.
9. Proof of being able to respond to emergencies within 4 hours as per Specification section 1.16.8. (IE) Letter stating response plan and time/distance of travel to Base.

**2. 2007/05/25 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**

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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File No. - N° du dossier  
PWB-6-39110

Buyer ID - Id de l'acheteur  
pwb021  
CCC No./N° CCC - FMS No./N° VME

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 FROM APRIL 1, 2017 TO MARCH 31, 2018.**

Item	Class of Service	Unit of Measure	Estimated Quantity	A		B		C						
				Term	Option Year	Option Year	Option Year	Price per Unit	Price per Unit	Price per Unit	Total	Total	Total	
1.	Rate per hour for service calls at 5 CDSB Gagetown	Hour	80	April 1, 2017 to March 31, 2018	April 1, 2018, to March 31, 2019	April 1, 2019, to March 31, 2020								
2.	Rate per hour for service calls at Detachment Moncton	Hour	20											
3.	Rate for two (2) transformer inspections per year at 5 CDSB Gagetown as outlined in section 26 05 01, Part 2- Testing.	Inspection	2											
4.	Rate for two (2) transformer inspections per year at Detachment Moncton as outlined in section 26 05 01, Part 2-Testing.	Inspection	2											
5.	Rate for one (1) infra-red transformer inspection at 5 CDSB Gagetown as outlined in 26 05 01, Part 2-Testing. This inspection is required in the first year of the contract only.	Inspection	1											

**No bid required for first and second option years**



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## **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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- I. 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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**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  
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**ANNEX "E"  
SPECIFICATION**



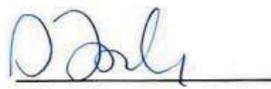
**DEPARTMENT OF NATIONAL DEFENCE  
REAL PROPERTY OPERATIONS  
DETACHMENT (GAGETOWN)  
5 CDSB GAGETOWN**

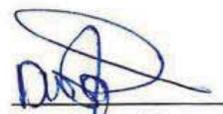
**SPECIFICATION**

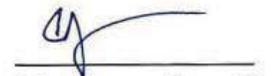
**SERVICE CONTRACT**

**TRANSFORMER MAINTENANCE AND TESTING  
5 CDSB GAGETOWN AND DETACHMENT MONCTON  
01 APRIL 2017 TO 31 MARCH 2018  
WITH TWO (2) ONE (1) YEAR OPTION PERIODS**

  
Designed by

  
Fire Inspector

  
Project O

  
Engineering O

PF No:  
Job No: L-G2-9900 /1729

Date: 2016-07-11

<u>Section</u>	<u>Title</u>	<u>Pages</u>
<u>Division 00 - Procurement and Contracting Requirements</u>		
00 21 13	Instructions to Bidders	6
<u>Division 01 - General Requirements</u>		
01 35 30	Health and Safety Requirements	2
01 35 35	DND Fire Safety Requirements	3
01 35 43	Environmental Procedures	1
<u>Division 26 - Electrical</u>		
26 05 01	Transformer Testing Criteria	2
<u>List of Attachments</u>		
Annex A - 5 CDSB Gagetown Transformer Inventory		8
Annex B - Detachment Moncton Transformer Inventory		1

**END OF SECTION**

## **1 GENERAL**

### **1.01 DESCRIPTION OF WORK**

- .1 The work covered under this Service Contract comprises the furnishing of all labour, material, tools and equipment required to conduct annual preventative maintenance testing for specified transformers, and providing written reports of the testing as required for the transformers located at 5 CDSB Gagetown and Detachment Moncton, as specified herein.

### **1.02 DURATION OF CONTRACT**

- .1 This Service Contract will extend from April 01, 2017 to March 31, 2018, with two (2) one (1) year option periods.

### **1.03 QUALIFICATIONS**

- .1 The Contractor must possess a current High Voltage Electrical Mechanic and/or a Linesman License, specializing in High Voltage installations, as issued by the Province of New Brunswick Department of Training and Employment Development Apprenticeship and Certification, and have a minimum of two (2) years High Voltage Electrical contracting experience.
- .2 All high voltage work is to be performed by tradesman and registered apprentices licensed by the Province where the work is being conducted.
- .3 Proof of level one thermography to perform infra red inspections.

### **1.04 ENGINEER**

- .1 The Engineer, as defined and stated in this Specification, will be the Commanding Officer of Real Property Operations Detachment (Gagetown) or a designated representative. The address of the Engineer is:

Contracts Office  
Real Property Operations  
Detachment (Gagetown)  
Building B18  
238 Champlain Avenue  
P. O. Box 17000 Station Forces  
Oromocto, NB E2V 4J5

Telephone: (506) 422-2000 Extension 2677.  
Fax: (506) 422-1248.

### **1.05 DOCUMENTS REQUIRED**

- .1 Maintain at the job site one (1) copy of each of the following:
  - .1 Specifications; and
  - .2 Addenda.

### **1.06 CONTRACTOR'S USE OF SITE**

- .1 Work site access will 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 the site with materials or equipment.

#### **1.07 TEMPORARY SERVICES**

- .1 DND will not provide temporary electric power and water for the purposes of this agreement.

#### **1.08 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 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.
- .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 and the Engineer.
- .7 Requests for acceptance of materials 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.

#### **1.09 GUARANTEE**

- .1 The Contractor will guarantee all materials installed and workmanship for a period of one (1) 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.

#### **1.10 CODES AND STANDARDS**

- .1 Perform work and enforce safety measures in accordance with the latest editions of the National Building Code of Canada; Canadian Labour Code, Part 2; the Canadian Electrical Code, Part III, Electricity Distribution and Transmission Systems; Real Property Operations Detachment (Gagetown) SOP 8.2, Confined Spaces; Real Property Operations Detachment (Gagetown) SOP 2.3, Electrical Equipment and Facilities, Annex B, Isolation and Lockout Procedures; and WorkSafeNB, unless otherwise specified.
- .2 The Contractor must be registered with WorkSafeNB.

- .3 Comply with the requirements of Workplace Hazardous Materials Information System (WHMIS) regarding use, handling, storage and disposal of hazardous materials; and labelling and provision of Materials Safety Data Sheets acceptable to Human Resources and Skills Development Canada and Health Canada.
- .4 Work is to meet or exceed the requirements of specified standards, codes and referenced documents. In the event of conflict between any provisions of the above authorities, the most stringent provision shall apply.

#### **1.11 OVERLOADING**

- .1 Ensure no part of work is subject to a load which will endanger its safety or will cause permanent deformation.

#### **1.12 TEMPORARY STRUCTURES**

- .1 The Contractor will furnish and maintain all equipment such as temporary 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 remain their property and will be removed from the site on completion of the work.

#### **1.13 CLEAN UP**

- .1 On completion of all work, the Contractor will remove all surplus material, tools, equipment and debris. The building and site must be left in a clean and tidy condition which meets the satisfaction of the Engineer. The Contractor will not remove any salvageable material or equipment from the job site without permission from the Engineer.

#### **1.14 MAINTENANCE INSPECTIONS**

- .1 Visual inspections shall be scheduled during the months of May and November. Infra-red scans shall be scheduled during the month of July and be completed only on the first year of the contract.
- .2 Inspections requiring power shut-downs shall be scheduled for evening and weekend hours, so as to minimize the impact on building's functions and military training operations.
- .3 Emergency power shut-downs shall be coordinated through the Engineer.
- .4 The Contractor shall provide a complete and concise report on all inspection findings

#### **1.15 QUANTITIES AND BASIS OF PAYMENT**

- .1 The Contractor will submit prices for the following in accordance with the specification. Such prices will include transportation (travel time to and from the contractors base of operation will be included in the rates provided), supervision, expenses and profit:
  - .1 Rate per hour for service calls at 5 CDSB Gagetown. **(Estimated 80 hours)**
  - .2 Rate per hour for service calls at Detachment Moncton. **(Estimated**

- 20 hours)
- .3 Rate for two (2) transformer inspections per year at 5 CDSB Gagetown as outlined in section 26 05 01, Part 2- Testing. (Quantity 2 inspections)
- .4 Rate for two (2) transformer inspections per year at Detachment Moncton as outlined in section 26 05 01, Part 2-Testing. (Quantity 2 inspections)
- .5 Rate for one (1) infra-red transformer inspection at 5 CDSB Gagetown as outlined in 26 05 01, Part 2-Testing. This inspection is required in the first year of the contract only. **No bid required for first and second option years. (Quantity 1 inspection)**
- .6 Rate for one infra-red transformer inspection at Detachment Moncton as outlined in 26 05 01, Part 2-Testing. This inspection is required in the first year of the contract only. **No bid is required for the first and second option years. (Quantity 1 inspection)**
- .7 All materials will be invoiced at the Contractor's wholesale cost plus a percentage for mark-up. (Estimated at \$7,500.00). **The Contractor will submit a percentage of mark-up for tendering purposes. Copies of the Contractor's invoices from any and all suppliers must accompany the Contractor's invoice for all materials used in the completion of the work for all service calls.**
- .2 Time charged, materials used and supporting documentation submitted may be verified by Government Audit before or after payment.
- .3 The above estimated quantities may increase or decrease and are to only to be used as a guide. The quantities are not guaranteed and the Contractor will have no claim for loss of anticipated profits as a result of these estimated quantities.
- .4 One invoice covering all charges for each Service Request or Inspection will be submitted to the Engineer with a copy of the faxed Service Request within 10 working days of completion of work. 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.
- .5 The Contractor will provide service during normal working hours on an eight (8) hour per day, five (5) days per week basis, 0730 to 1600 hours, Monday to Friday inclusive and emergency service after normal working hours.
- .6 The Contractor will advise the Engineer of the telephone number or location at which they or their representative may be contacted at all times.
- .7 The Contractor, upon receipt of an Acceptance of Tender, 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.
- .8 The Contractor will not refuse any call for service by the Engineer and will respond within twenty-four (24) hours on normal service calls and within four (4) hours on emergency service calls.
- .9 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.

- .10 The Contractor will report to the Engineer prior to starting work and upon completion of work on a daily basis to sign in and out. If work started or completed outside normal working hours and the Engineer's office is closed, the Base Fire Department has a sign in/sign out sheet available for the Contractor.
- .11 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 the work performed, Contractor's employees assigned to work, location or building number of the work site, hours worked for each employee, trade of each employee, the materials used in the completion of the work and any recommendations for further 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. The 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.

#### **1.16 CONTRACTOR PASSES**

- .1 All Contractor employees will have in their possession at all times while on the Base an authorized Contractor Pass while employed on DND property. Such passes will be produced on demand to the Military Police, Commissionaires, Security Guards and persons in authority.
- .2 The Contractor will complete an application form for the Contractor Passes for each individual. The Contractor will accompany the employee to the Military Police Identification Section, Building F-19, for the issuance of a pass.
- .3 Photocopies of passes are to be provided to the Engineer.
- .4 The Contractor will ensure Contractor Passes are recovered from employees who cease to be employed on DND property. Such passes shall be returned to the Military police Identification Section by the Contractor.

#### **1.17 SECURITY CLEARANCE**

- .1 The Contractor shall maintain an up-to-date roster of all employees involved in this contract including managers, supervisors, tradespersons, drivers and labourers. This roster must 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 the security requirements as laid down by the Military Police Identification Section.

#### **1.18 DOCUMENTATION**

- .1 The successful bidder when requested shall supply PWGSC with the following;
  - .1 Proof of current High Voltage Electrical Mechanic and/or High Voltage Linesman License's specializing in High voltage installations as per

- section 1.3 Qualifications.
- .2 Certification of level 1 thermographer as per section 1.3 Qualifications.
  - .3 Proof of two (2) years High voltage Electrical Contracting experience.
  - .4 Proof of current registration with WorkSafeNB as per section 1.11
  - .5 Qualifications of other workers who will be performing work as per section 1.3.2 Qualifications.
  - .6 Proof of being able to respond to emergencies within 4 hours as per section 1.16.8. (IE) Letter stating response plan and time/distance of travel to Base.

**END OF SECTION**

## **1 GENERAL**

### **1.01 REFERENCES**

- .1 Canada Labour Code, Part 2, Canada Occupational Safety and Health Regulations.
- .2 Health Canada/Workplace Hazardous Materials Information System (WHMIS).
  - .1 Material Safety Data Sheets (MSDS).
- .3 Province of New Brunswick:
  - .1 Occupational Health and Safety Act, S.N.B. 1983.

### **1.02 REGULATORY REQUIREMENTS**

- .1 Do Work in accordance with the safety measures of the National Building Code of Canada 2010, the Canada Labour Code Part 2, 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.

### **1.03 RESPONSIBILITY**

- .1 The Contractor is responsible for health and safety of all persons on site, safety of property on site and for protection of persons adjacent to site and environment to extent that they may be affected by conduct of Work.
- .2 The Contractor and all of the Contractor's employees are to comply with and enforce all safety requirements specified in the Contract Documents as well as all applicable federal, provincial and local statutes, regulations, and ordinances, and with site-specific Health and Safety Plan.
- .3 As outlined in the Canada Labour Code Part 2, 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 Real Property Operations Detachment (Gagetown) 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/or tags when encountered. Do not 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 2, 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 of their employees are provided all Personal Protective Equipment (PPE) necessary to perform all work. Hard hats, safety boots and safety glasses are to be worn at all times.

#### 1.04 UNFORESEEN HAZARDS

- .1 Should any unforeseen or peculiar safety-related factor, hazard, or condition occur or become evident during performance of work, the Contractor must have procedures in place to facilitate 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.

#### 1.05 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.

#### 1.06 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.

**END OF SECTION**

## **1 GENERAL**

### **1.01 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 activate nearest fire alarm box; or
  - .2 telephone 911.
- .3 When reporting fire by telephone, give location of fire, name or number of building and be prepared to verify the location.

### **1.02 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.

### **1.03 FIRE EXTINGUISHERS**

- .1 Supply fire extinguishers, as scaled by Fire Chief, necessary to protect work in progress and contractor's physical plant on site.

### **1.04 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.

### **1.05 SMOKING PRECAUTIONS**

- .1 Observe smoking regulations at all times.

### **1.06 RUBBISH AND WASTE MATERIALS**

- .1 Rubbish and waste materials are to be kept to minimum.
- .2 Burning of rubbish is prohibited.
- .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.

### **1.07 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.

### **1.08 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.
- .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.

### **1.09 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.

**END OF SECTION**

**1 GENERAL**

**1.01 GENERAL**

- .1 The Contractor will take all reasonable steps to ensure that they and their employees have complied with all pertinent legislation and have protected the environment.

**1.02 FIRES**

- .1 Fires and burning of rubbish on site is not permitted.

**1.03 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.
- .3 All potential hazardous wastes must be disposed of in the proper manner.

**1.04 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.
- .2 In the event of a spill, the Contractor will immediately take corrective action to clean up the material.
- .3 In the event of a spill over one (1) litre of a hazardous material, the Contractor will immediately inform the proper authorities at the 5 CDSB Gagetown Fire Department, telephone (506) 422-2000 extension 2106 and take necessary remedial action.
- .4 The Contractor will inform the Engineer in writing of any spill, with details of any actions taken to remediate the spill and to prevent any reoccurrence.

**END OF SECTION**

## 1 GENERAL

### 1.01 GENERAL

- .1 This Section covers the particular testing criteria for the transformers located at 5 CDSB Gagetown.

### 1.02 CODES AND STANDARDS

- .1 Do complete testing in accordance with the Standards listed in Section 00 21 13 - Part 1.11, except where specified otherwise.

### 1.03 VOLTAGE RATINGS

- .1 Operating voltages for the existing in service transformers is:
  - .1 Pad Mount transformers: 12.47 kV primary, 347/600 volts or 120/208 volts secondary.
  - .2 Pole mount transformers: 7.2 kV primary, 347 volts or 120/240 volts secondary.

### 1.04 MATERIALS AND EQUIPMENT

- .1 Provide materials and equipment in accordance with Section 00 21 13 - Instructions to Bidders.
- .2 Equipment and material to be CSA certified. Where there is no alternative to supplying equipment which is not CSA certified, obtain special approval from the Engineer.

### 1.05 CO-ORDINATION AND CONFIRMATION

- .1 Co-ordinate testing schedule with Engineer Allow a minimum of ninety six (96) hours notice for scheduled power shut-downs. Emergency power shut-downs are to be dealt with on an as needed basis.

## 2 TESTING

### 2.01 TESTING AND INSPECTION

- .1 Padmount transformers semi-annual inspection. **Note- The report will contain the below information;**
  - .1 Visually check for fluid leaks in tanks and at bushings.
  - .2 Visually inspect for physical damages to the tank and fittings.
  - .3 Visually inspect high voltage bushings for cracks, chips and for deterioration.
  - .4 Visually check load break elbows and associated items for deterioration and fatigue.
  - .5 Check the integrity of secondary connections.
  - .6 Check the integrity of the grounding system.
  - .7 Check pressure relief valve, where applicable.
  - .8 Do load test on secondary conductors.
  - .9 Visually inspect pads and bollards.

- .10 Check and verify location and name palyte info (type, manufacturer, serial number, KVA, oil capacity, weight, % impedance, primary and secondary volts)
- .11 Report findings for each transformer.
- .2 Pole mount transformers semi-annual inspection. **Note- The report will contain the below information;**
  - .1 Visually check for fluid leaks in tanks and at bushings.
  - .2 Visually inspect for physical damages to the tank and bushings.
  - .3 Visually inspect high voltage bushings for cracks, chips and deterioration.
  - .4 Check integrity of primary connections.
  - .5 Check integrity of secondary connections.
  - .6 Check integrity of the grounding system.
  - .7 Check pressure relief valve, where applicable.
  - .8 Do load test on secondary conductors.
  - .9 Visually inspect pole condition.
  - .10 Check and verify name plate info (type, manufacturer, serial number, KVA, oil capacity, weight, % impedance, primary and secondary volts.
  - .11 Report findings for each transformer.
- .3 Infrared (IR) Inspection:
  - .1 Conduct thermal infrared inspection on transformer and components for excessive heat levels to expose potential loose connections, load unbalance, faulty wiring and to roughly gauge the oil levels in the tanks.
  - .2 IR inspections are to be conducted in the month of July.  
**Note: the IR inspection is to be done only on the first year of the contract. No bid required for first/second option years.**

END OF SECTION

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Location	Manufacturer / Model	Serial Number	KVA	Sec Volts	Pri Volts	Type	Remarks
A-4	CARTE	20531-004	150	120/208	12.47 kV	PAD MOUNT	3 PHASE
A-5	CARTE	20549-003	150	120/208	12.47 kV	PAD MOUNT	3 PHASE
A-9	CARTE	20549-001	150	120/208	12.47 kV	PAD MOUNT	3 PHASE
A-11	CARTE	20531-004	150	120/208	12.47 kV	PAD MOUNT	3 PHASE
A-47	CARTE	3B042-001	1000	347/600	12.47 kV	PAD MOUNT	3 PHASE
A-48	CARTE	20534-002	225	120/208	12.47 kV	PAD MOUNT	3 PHASE
ROGERS TOWER	MOLONEY	379-231	50	120/240	7.2 kV	POLE	1 PHASE
ALIAN TOWER FC	MOLONEY	A2724-637	15	120/240	7.2 kV	POLE	1 PHASE
ALIAN TOWER PET	GE	1057034	37.5	120/240	7.2 kV	POLE	1 PHASE
AR-1 (Amiens range)	MOLONEY	A1743-272	75	120/240	7.2 kV	POLE	1 PHASE
AS1-1 (Air Strip 1)	CARTE	2A1870-001	25	120/240	7.2 kV	POLE	1 PHASE
AS1-1	CARTE	2A1870-002	25	120-240	7.2 kV	POLE	1 PHASE
AS1-1	CARTE	2A1870-003	25	120-240	7.2 kV	POLE	1 PHASE
AS1-2	CARTE	2A1869-001	10	120-240	7.2 kV	POLE	1 PHASE
AS1-2	CARTE	2A1869-002	10	120-240	7.2 kV	POLE	1 PHASE
AS1-2	CARTE	2A1869-003	10	120-240	7.2 kV	POLE	1 PHASE
AS1-2	CARTE	2A2070-001	25	4160/240	12.47 kV	PAD MOUNT	3 PHASE
AS1-4	MOLONEY	A1737-568	15	120/240	7.2 kV	POLE	1 PHASE
AV-1 (Austere Village)	WESTINGHOUSE	171E0228-61	10	120-240	7.2 kV	POLE	1 PHASE
AV-1	GE	921506	100	120-240	7.2 kV	POLE	1 PHASE
AV-4	CARTE	U0742-001	15	120-240	7.2 kV	POLE	1 PHASE
B-1	CARTE	20531-002	150	120-208	12.47 kV	PAD MOUNT	3 PHASE
B-3 (POLE A8)	MOLONEY	A4095-2	15	120/240	7.2 kV	POLE	1 PHASE
B-6	CARTE	20531-001	150	120/208	12.47 kV	PAD MOUNT	3 PHASE
B-6	CARTE	20532-001	150	347/600	12.47 kV	PAD MOUNT	3 PHASE
B-7	CARTE	20532-002	150	347/600	12.47 kV	PAD MOUNT	3 PHASE
B-9	CARTE	20538-001	500	347/600	12.47 kV	PAD MOUNT	3 PHASE
B-10	CARTE	20534-004	225	120/208	12.47 kV	PAD MOUNT	3 PHASE
B-10	CARTE	20537-001	300	347/600	12.47 kV	PAD MOUNT	3 PHASE
B-12	PIONEER	G956201	300	347/600	12.47 kV	PAD MOUNT	3 PHASE
B-14	COOPER	979007149	112.5	120/208	12.47 kV	PAD MOUNT	3 PHASE
B-18	CARTE	20595-001	150	120/208	12.47 kV	PAD MOUNT	3 PHASE
B-18	CARTE	20536-001	300	347/600	12.47 kV	PAD MOUNT	3 PHASE
B-18 (STORAGE)	CARTE	20535-001	225	120/208	12.47 kV	PAD MOUNT	3 PHASE
B-18 (STORAGE)	WESTINGHOUSE	87-03E1387-001	15	120/240	7.2	POLE	1 PHASE
B-18 (STORAGE)	CARTE	2B321-001	750	347/600	12.47 kV	PAD MOUNT	3 PHASE
B-18 (STORAGE)	CARTE	00539-3	50	347	7.2 kV	POLE	1 PHASE

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B-18 (STORAGE)	MOLONEY	A2164-467	25	120/240	7.2 kV	POLE	1 PHASE
B-18 (STORAGE)	MOLONEY	A1739-342	50	120/240	7.2 kV	POLE	1 PHASE
B-18 (STORAGE)	MOLONEY	LE10890	75	120/240	7.2 kV	POLE	1 PHASE
B-18 (STORAGE)	MOLONEY	A2165-471	50	120/240	7.2 kV	POLE	1 PHASE
B-18 (STORAGE)	MOLONEY	A2344-239	25	120/240	7.2 kV	POLE	1 PHASE
B-18 (STORAGE)	CARTE	00539-2	50	347	7.2 kV	POLE	1 PHASE
B-18 (STORAGE)	MOLONEY	A1739-343	50	120/240	7.2 kV	POLE	1 PHASE
B-18 (STORAGE)	MOLONEY	571/126	25	120/240	7.2 kV	POLE	1 PHASE
B-18 (STORAGE)	MOLONEY	A4697-1	25	120/240	7.2 kV	POLE	1 PHASE
B-18 (STORAGE)	MOLONEY	A2164-413	25	120/240	7.2 kV	POLE	1 PHASE
B-18 (STORAGE)	General Electric	853980	10	120/240	7.2 kV	POLE	1 PHASE
B-18 (STORAGE)	WESTINGHOUSE	87-03E1387-002	15	120/240	7.2 kV	POLE	1 PHASE
B-18 (STORAGE)	COOPER POWER	CP1655002523	50	120/240	7.2 kV	POLE	1 PHASE
B-18 (STORAGE) Pad Mount Switcher	Canada Power prod	18937	95	NA	NA	PAD MOUNT	
B-19	CARTE	7933-002	300	347/600	12.47 kV	PAD MOUNT	3 PHASE
B-23	CARTE	20527-001	30	120/208	12.47 kV	PAD MOUNT	3 PHASE
<b>B-341 (B1 Compound)</b>							
B-58	CARTE	10403-001	300	347/600	12.47 kV	PAD MOUNT	3 PHASE
B-59	MOLONEY	A1743-518	75	120/240	7.2 kV	POLE	1 PHASE
B-69	MOLONEY	A3263-1114	25	120/240	7.2 kV	POLE	1 PHASE
BIO PAD	MOLONEY	A698-143	10	120/240	7.2 kV	POLE	1 PHASE
C-7	CARTE	18841-001	75	120/208	12.47 kV	PAD MOUNT	3 PHASE
C-8	CARTE	20532-001	150	347/600	12.47 kV	PAD MOUNT	3 PHASE
C-9	PIONEER	6-9089-1	750	347/600	12.47 kV	PAD MOUNT	3 PHASE
CWES BUILDING	CARTE	12958-001	150	120/208	12.47 kV	PAD MOUNT	3 PHASE
<b>CHAMBERLAIN AVE CAMERA</b>							
D-4	CARTE	20531-003	150	120/208	12.47 kV	PAD MOUNT	3 PHASE
D-5	CARTE	20534-001	225	120/208	12.47 kV	PAD MOUNT	3 PHASE
D-5	CARTE	20530-001	75	4160	12.47 kV	PAD MOUNT	3 PHASE
D-9	CARTE	20550-004	150	120/208	12.47 kV	PAD MOUNT	3 PHASE
D-10	CARTE	18843-001	300	347/600	12.47 kV	PAD MOUNT	3 PHASE
D-15	CARTE	20550-003	150	120/208	12.47 kV	PAD MOUNT	3 PHASE
D-17	CARTE	7932-002	150	120/208	12.47 kV	PAD MOUNT	3 PHASE
D-22	CARTE	20536-002	300	120/208	12.47 kV	PAD MOUNT	3 PHASE
D-23	CARTE	5284-001	150	120/208	12.47 kV	PAD MOUNT	3 PHASE
D-24	CAM TRAN CO	02C1675501	150	120/208	12.47 kV	PAD MOUNT	3 PHASE
D-25	CARTE	5283-003	150	120/208	12.47 kV	PAD MOUNT	3 PHASE
D-27	CARTE	5284-003	150	120/208	12.47 kV	PAD MOUNT	3 PHASE

D-55	CARTE	13626-001	150	347/600	12.47 kV	PAD MOUNT	3 PHASE
D-56	PIONEER	G12889-1	750	347/600	12.47 kV	PAD MOUNT	3 PHASE
D-57	CARTE	18483-001	1500	347/600	12.47 kV	PAD MOUNT	3 PHASE
D-58	COOPER	750010183	300	347/600	12.47 kV	PAD MOUNT	3 PHASE
D-59	CARTE	20570-001	1000	347/600	12.47 kV	PAD MOUNT	3 PHASE
D-60			750	347/600	12.47 kV	PAD MOUNT	3 PHASE
EN-3	MOLONEY	ARP1287A-10	15	120/240	7.2 kV	POLE	1 PHASE
EN-4	MOLONEY	ARP1287A-7	15	120/240	7.2 kV	POLE	1 PHASE
F-1	CARTE	20550-002	150	120/208	12.47 kV	PAD MOUNT	3 PHASE
F-2	CARTE	20550-001	150	120/208	12.47 kV	PAD MOUNT	3 PHASE
F-6	CARTE	20549-004	150	120/208	12.47 kV	PAD MOUNT	3 PHASE
F-12	CARTE	5235-001	300	347/600	12.47	PAD MOUNT	3 PHASE
F-18	CARTE	20534-003	225	120/208	12.47 kV	PAD MOUNT	3 PHASE
F-19	CARTE	23396-001	150	120/208	12.47 kV	PAD MOUNT	3 PHASE
FFTA	MOLONEY	A3262-880	15	120/240	7.2 kV	POLE	1 PHASE
G-1	CARTE	7930-001	75	120/208	12.47 kV	PAD MOUNT	3 PHASE
G-3	CARTE	7932-001	150	120/208	12.47 kV	PAD MOUNT	3 PHASE
<b>G-8</b>							
GANONG ST. POLE 16	MOLONEY	A1737-569	15	120/240	7.2 kV	POLE	1 PHASE
GANONG ST. POLE 19	MOLONEY	A3263-228	25	120/240	7.2 kV	POLE	1 PHASE
GANONG ST. POLE 19	MOLONEY	A3263-241	25	120/240	7.2 kV	POLE	1 PHASE
GANONG ST. POLE 19	MOLONEY	A3263-243	25	120/240	7.2 kV	POLE	1 PHASE
GANONG ST. POLE 30	MOLONEY	468-155	10	120/240	7.2 kV	POLE	1 PHASE
GANONG ST. POLE 57	G E	672278	10	120/240	7.2 kV	POLE	1 PHASE
<b>GANONG ST/ CHAMPLAIN Camera</b>							
H-1	CARTE	5284-002	150	120/208	12.47 kV	PAD MOUNT	3 PHASE
H-3	CARTE	5283-004	150	120/208	12.47 kV	PAD MOUNT	3 PHASE
H-7	CARTE	20551-001	150	120/208	12.47 kV	PAD MOUNT	3 PHASE
H-8	CARTE	20533-001	150	120/208	12.47 kV	PAD MOUNT	3 PHASE
H-10	CARTE	14846-001	300	347/600	12.47 kV	PAD MOUNT	3 PHASE
H-12	CARTE	18842-001	150	120/208	12.47 kV	PAD MOUNT	3 PHASE
H-14	CARTE	20552-002	150	120/208	12.47 kV	PAD MOUNT	3 PHASE
H-16	CARTE	20552-001	150	120/208	12.47 kV	PAD MOUNT	3 PHASE
H-17	CARTE	6787-001	300	347/600	12.47 kV	PAD MOUNT	3 PHASE
H-19	CARTE	20551-002	150	120/208	12.47 kV	PAD MOUNT	3 PHASE
H-20	CARTE	20551-003	150	120/208	12.47 kV	PAD MOUNT	3 PHASE
H-21	CARTE	5283-002	150	120/208	12.47 kV	PAD MOUNT	3 PHASE

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H-23	CARTE	5283-001	150	120/208	12.47 kV	PAD MOUNT	3 PHASE
H-33	CARTE	8335-001	1500	347/600	12.47	PAD MOUNT	3 PHASE
H-34	CARTE	11883-001	75	120/208	12.47 kV	PAD MOUNT	3 PHASE
J-1	CARTE	20551-004	150	120/208	12.47 kV	PAD MOUNT	3 PHASE
J-7	FEDERAL PIONEER	C-7828-1	833	347/600	7.2 kV	FLOOR	1 PHASE
J-7	FEDERAL PIONEER	C-7828-2	833	347/600	7.2 kV	FLOOR	1 PHASE
J-7	FEDERAL PIONEER	C-7828-3	833	347/600	7.2 kV	FLOOR	1 PHASE
J-8/9	CARTE	1B080-001	500	347/600	12.47 kV	PAD MOUNT	3 PHASE
J-10	CARTE	2B257-001	2000	347/600	12.47 kV	PAD MOUNT	3 PHASE
K-1	REX MFG.	C24388	225	120/208	12.47 kV	CABINET	3 PHASE
K-4	CARTE	3B212-001	1000	347/600	12.47 kV	PAD MOUNT	3 PHASE
K-6	CARTE		150	347/600	12.47 kV	PAD MOUNT	3 PHASE
K-6	MOLONEY	6611026C	25	120/240	7.2 kV	POLE	1 PHASE
K-8			150	120/208	12.47 kV	PAD MOUNT	3 PHASE
K-10	CARTE	7933-001	300	347/600	12.47 kV	PAD MOUNT	3 PHASE
K-13	CARTE	7932-003	150	120/208	12.47 kV	PAD MOUNT	3 PHASE
K-14	CARTE	22035-002	150	120/208	12.47 kV	PAD MOUNT	3 PHASE
K-15	CARTE	20538-002	500	347/600	12.47 kV	PAD MOUNT	3 PHASE
K-16	CARTE	22035-001	150	120/208	12.47 kV	PAD MOUNT	3 PHASE
K-17	CARTE	13437-001	300	347/600	12.47 kV	PAD MOUNT	3 PHASE
K-18	CARTE	22114-001	150	120/208	12.47 kV	PAD MOUNT	3 PHASE
K-19	CARTE	2214-002	150	120/208	12.47 kV	PAD MOUNT	3 PHASE
K-20 SITE	MOLONEY	A4095-239	15	120/240	7.2 kV	POLE	1 PHASE
K-20 BULK	HAMMOND	DB00C45	112.5	347/600	12.47 kV	CABINET	3 PHASE
K-26	MOLONEY	A1555-132	15	120/240	7.2 kV	POLE	1 PHASE
K-38	MOLONEY	A2343-267	15	120/240	7.2 kV	POLE	1 PHASE
K-39	SIEMENS	63903-334	50	120/240	7.2 kV	POLE	1 PHASE
K-39	SIEMENS	63903-357	50	120/240	7.2 kV	POLE	1 PHASE
K-39	SIEMENS	63903-369	50	120/240	7.2 kV	POLE	1 PHASE
K-46	MOLONEY	A2005-150	15	120/240	7.2 kV	POLE	1 PHASE
K-60	CARTE	4B220-001	500	347/600	12.47 kV	PAD MOUNT	3 PHASE
K-61	CARTE	20528-001	45	120/208	12.47 kV	PAD MOUNT	3 PHASE
K-63	CARTE	20529-001	75	120/208	12.47 kV	PAD MOUNT	3 PHASE
K-69	MOLONEY	A4101-7	25	347/600	7.2 kV	POLE	1 PHASE
K-69	MOLONEY	A4101-23	25	347/600	7.2 kV	POLE	1 PHASE
K-69	MOLONEY	A43268-64	25	347/600	7.2 kV	POLE	1 PHASE
New Building at Pole 126	Cooper/Onan	CP1550003991	300	120/208	12.47	PAD MOUNT	
K71 Area (Field Phase)	General Electric	22,780.00	25.00	120/208	7.20	Pole	

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K71 Area (Center Phase)	MOLONEY	A2725-754	25	120/208	7.2	Pole	
K71 Area (Road Phase)	General Electric	22727	25	120/208	7.2	Pole	
K-71	MOLONEY	A4097-134	50	120/240	7.2 kV	POLE	1 PHASE
K-71	MOLONEY	A4097-409	50	120/240	7.2 kV	POLE	1 PHASE
K-71	MOLONEY	A3264-2012	50	120/240	7.2	POLE	1 PHASE
K-73	CARTE	22035-003	150	120/208	12.47 kV	PAD MOUNT	3 PHASE
K-75	MOLONEY	A1738-915	25	120/240	7.2 kV	POLE	1 PHASE
K-75	MOLONEY	A1738-916	25	120/240	7.2 kV	POLE	1 PHASE
K-75	MOLONEY	A1738-918	25	120/240	7.2 kV	POLE	1 PHASE
K-79	MOLONEY	A002-147	10	120/240	7.2 kV	POLE	1 PHASE
K-79	G E	2337	10	120/240	7.2 kV	POLE	1 PHASE
K-79	G E	858762	10	120/240	7.2 kV	POLE	1 PHASE
K-88	MOLONEY	A2725-57	25	120/240	7.2 kV	POLE	1 PHASE
K-88	MOLONEY	A2725-58	25	120/240	7.2 kV	POLE	1 PHASE
K-88	MOLONEY	A2725-61	25	120/240	7.2 kV	POLE	1 PHASE
<b>K-92</b>							
K93	Cooper/Onan	1550005259	500	347/600	12.47	PAD MOUNT	
K-330	MOLONEY	A4457-10	15	120/240	7.2 kV	POLE	1 PHASE
GU04C End Of New Line	Cooper/Onan	CP1550003990	300	120/208	12470	PAD MOUNT	
GU04C End Of New Line	Cooper/Onan	155000539					
L-3 WATER TOWER	MOLONEY	A1739-378	300	347/600	12.47 kV	PAD MOUNT	
L-3 RETS 2	MOLONEY	A2513-16	50	120/240	7.2 kV	POLE	1 PHASE
L-3 RETS 2	MOLONEY	A2513-49	50	120/240	7.2 kV	POLE	1 PHASE
L-3 RETS 2	MOLONEY	A2513- 50	50	120/240	7.2 kV	POLE	1 PHASE
L-24	FEDERAL PIONEER	G-8616	500	347/600	12.47 kV	PAD MOUNT	3 PHASE
L-27	MOLONEY	A1743-322	75	120/240	7.2 kV	POLE	1 PHASE
L-27	MOLONEY	A1743-325	75	120/240	7.2 kV	POLE	1 PHASE
L-27	MOLONEY	A1743-327	75	120/240	7.2 kV	POLE	1 PHASE
L-32	TRANS CANADA	124B1000-040	1000	347/600	12.47 kV	PAD MOUNT	3 PHASE
L-33	BROWN BAUERIA	98J586316	1000	347/600	12.47 kV	PAD MOUNT	3 PHASE
L-37 (Service was changed)	CARTE	411-001	75	120/208	12.47	PAD MOUNT	3 PHASE
L-38	SURPLEX	301-615	50	120/240	7.2 kV	POLE	1 PHASE
L-38	SURPLEX	301690-218	50	120/240	7.2 kV	POLE	1 PHASE
L-38	SURPLEX	17E0216-462	10	120/240	7.2 kV	POLE	1 PHASE
L-100	MOLONEY	A1739 372	50	120/240	7.2 kV	POLE	1 PHASE
L-102	MOLONEY	20792-2	75	120/240	7.2 kV	POLE	1 PHASE
L-103	MOLONEY	A1739-376	50	120/240	7.2 kV	POLE	1 PHASE
L-108	MOLONEY	A1739-344	50	120/240	7.2 kV	POLE	1 PHASE

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L-110	MOLONEY	A1739-371	50	120/240	7.2 kV	POLE	1 PHASE
L-111	MOLONEY	A1739-375	50	120/240	7.2 kV	POLE	1 PHASE
LV-9	MOLONEY	551-73	50	120/240	7.2 kV	POLE	1 PHASE
LV-9	MOLONEY	551-77	50	120/240	7.2 kV	POLE	1 PHASE
LV-9	MOLONEY	551-83	50	120/240	7.2 kV	POLE	1 PHASE
LW-3	MOLONEY	A2013-19	75	347/600	7.2 kV	POLE	1 PHASE
LW-3	MOLONEY	A1748-33	75	347/600	7.2 kV	POLE	1 PHASE
LW-3	MOLONEY	A4464-88	74	347/600	7.2 kV	POLE	1 PHASE
LW-4	MOLONEY	201497-65	50	120/240	7.2 kV	POLE	1 PHASE
LW-4	MOLONEY	201497-67	50	120/240	7.2 kV	POLE	1 PHASE
LW-4	MOLONEY	201497-72	50	120/240	7.2 kV	POLE	1 PHASE
M-2	CARTE	5952-001	750	347/600	12.47 kV	PAD MOUNT	3 PHASE
M-2 TRACK	MOLONEY	LC13275	15	120/240	7.2 kV	POLE	1 PHASE
M-5	PIONEER	C9844-1	167	347/600	7.2 kV	POLE	1 PHASE
M-5	PIONEER	C9844-2	167	347/600	7.2 kV	POLE	1 PHASE
M-5	PIONEER	C9844-3	167	347/600	7.2 kV	POLE	1 PHASE
M-6	MOLONEY	A3262-943	15	120/240	7.2 kV	POLE	1 PHASE
M-6	MOLONEY	A3262-977	15	120/240	7.2 kV	POLE	1 PHASE
M-6	MOLONEY	A3262-978	15	120/240	7.2 kV	POLE	1 PHASE
MA-22	CARTE	7B214-001	300	120/208	12.47 kV	PAD MOUNT	3 PHASE
MA-23	CARTE	7B213-002	75	120/208	12.47 kV	PAD MOUNT	3 PHASE
MA-36	CARTE	511-011	15	120/240	7.2 kV	POLE	1 PHASE
MA-36	CARTE	ZB213-001	75	120/208	12.47 kV	PAD MOUNT	3 PHASE
MA-40	CARTE	21284-001	500	347/600	12.47 kV	PAD MOUNT	3 PHASE
MA-43	CARTE	3B360-001	300	347/600	12.47 kV	PAD MOUNT	3 PHASE
MR-1	MOLONEY	A2164-410	25	120/240	7.2 kV	POLE	1 PHASE
MR-2	PIONEER	G-10293-1	25	120/240	7.2 kV	POLE	1 PHASE
N-6	MOLONEY	468-143	15	120/240	7.2 kV	POLE	1 PHASE
N-38	MOLONEY	551-78	50	120/240	7.2 kV	POLE	1 PHASE
N-39	MOLONEY	551-39	50	120/240	7.2 kV	POLE	1 PHASE
N-45	MOLONEY	550-134	25	120/240	7.2 kV	POLE	1 PHASE
N-45	MOLONEY	550-141	25	120/240	7.2 kV	POLE	1 PHASE
N-45	MOLONEY	550-144	25	120/240	7.2 kV	POLE	1 PHASE
N-63	MOLONEY	551-54	50	120/240	7.2 kV	POLE	1 PHASE
N-68	WESTINGHOUSE	87-03E17-37-	50	120/240	7.2 kV	POLE	1 PHASE
N-75	MOLONEY	551-75	50	120/240	7.2 kV	POLE	1 PHASE
N-82	WESTINGHOUSE	87-03E17-39-	50	120/240	7.2 kV	POLE	1 PHASE
N-89	MOLONEY	551-51	50	120/240	7.2 kV	POLE	1 PHASE

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N-104	CARTE	T1873-001	50	120/240	7.2 kV	POLE	1 PHASE
N-104	CARTE	T1873-002	50	120/240	7.2 kV	POLE	1 PHASE
N-104	CARTE	T1873-003	50	120/240	7.2 kV	POLE	1 PHASE
N-107	MOLONEY	551-89	50	120/240	7.2 kV	POLE	1 PHASE
N-116	MOLONEY	A2-166-19	75	120/240	7.2 kV	POLE	1 PHASE
N-118	MOLONEY	A2726-50	50	120/240	7.2 kV	POLE	1 PHASE
N-118	MOLONEY	A2726-51	50	120/240	7.2 kV	POLE	1 PHASE
N-118	MOLONEY	A2726-56	50	120/240	7.2 kV	POLE	1 PHASE
N-119	MOLONEY	A1218-15	100	120/240	7.2 kV	POLE	1 PHASE
N-120	MOLONEY	A121109-56	100	120/240	7.2 kV	POLE	1 PHASE
N-121	MOLONEY	ATL-1466-156	100	120/240	7.2 kV	POLE	1 PHASE
N-123	G E	004-1280	25	120/240	7.2 kV	POLE	1 PHASE
N-125	MOLONEY	A4458-3	50	120/240	7.2 kV	POLE	1 PHASE
N-125	MOLONEY	A4458-4	50	120/240	7.2 kV	POLE	1 PHASE
N-125	MOLONEY	A4458-8	50	120/240	7.2 kV	POLE	1 PHASE
N-329	MOLONEY	551-76	50	120/240	7.2 kV	POLE	1 PHASE
PC-19	MOLONEY	A3262-519	15	120/240	7.2 kV	POLE	1 PHASE
PC-29	MOLONEY	A1559-1-5	25	120/240	7.2 kV	POLE	1 PHASE
PC-33	G E	800-51291	37.5	120/240	7.2 kV	POLE	1 PHASE
PC-35	MOLONEY	A2725-266	25	120/240	7.2 kV	POLE	1 PHASE
PC-35	MOLONEY	ATL955-337	25	120/240	7.2 kV	POLE	1 PHASE
PC-35	CARTE	L0197-6	25	120/240	7.2 kV	POLE	1 PHASE
PC-42	G E	490850	10	120/240	7.2 kV	POLE	1 PHASE
PC-43	MOLONEY	381-19	75	120/240	7.2 kV	POLE	1 PHASE
PC-43	MOLONEY	381-25	75	120/240	7.2 kV	POLE	1 PHASE
PC-43	MOLONEY	381-29	75	120/240	7.2 kV	POLE	1 PHASE
PC-48	FIRENTI PACKARD	2-156-775	50	347/600	7.2 kV	POLE	1 PHASE
PC-48	FIRENTI PACKARD	2-156-777	50	347/600	7.2 kV	POLE	1 PHASE
PC-48	FIRENTI PACKARD	2-156-777	50	347/600	7.2 kV	POLE	1 PHASE
PC-53	MOLONEY	APR1050-136	25	120/240	7.2 kV	POLE	1 PHASE
PC-56	MOLONEY	A1738-1359	25	120/240	7.2 kV	POLE	1 PHASE
PC-58	MOLONEY	A1738-1352	25	120/240	7.2 kV	POLE	1 PHASE
PC-100	WESTINGHOUSE	C72R115	37.5	120/240	7.2 kV	POLE	1 PHASE
PC-101	MOLONEY	A2344-318	25	120/240	7.2 kV	POLE	1 PHASE
PC-104	MOLONEY	A2614-429	25	120/240	7.2 kV	POLE	1 PHASE
PC-105	WESTINGHOUSE	LL22262	25	120/240	7.2 kV	POLE	1 PHASE
PC-316	G E	800-61024	50	120/240	7.2 kV	POLE	1 PHASE
PC- HIGHWAY	MOLONEY	ARP1058-42	15	120/240	7.2 kV	POLE	1 PHASE

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PC-POL	WESTINGHOUSE	89-03E47-73	50	347/600	7.2 kV	POLE	1 PHASE
PC-POL	WESTINGHOUSE	89-03F47-73	50	347/600	7.2 kV	POLE	1 PHASE
PC-POL	MOLONEY	A1-523-42	50	347/600	7.2 kV	POLE	1 PHASE
PC-POL	MOLONEY	ATL1213-309	25	120/240	7.2 kV	POLE	1 PHASE
RR-8 (Batouche)	MOLONEY	383-506	25	120/240	7.2 kV	POLE	1 PHASE
RR-12 (Batouche)	G E	6895-001	10	120/240	7.2 kV	POLE	1 PHASE
RR-14 ( Batouche)	CARTE	543001	50	120/240	7.2 kV	POLE	1 PHASE
RR-15 (50 yd Range)	WESTINGHOUSE	87-03E1387-001	15	120/240	7.2 kV	POLE	1 PHASE
RWR-1	MOLONEY	381-56	75	120/240	7.2 kV	POLE	1 PHASE
RWR-1	CARTE	6895-001	75	120/240	7.2 kV	POLE	1 PHASE
<b>Repel Tower (Beside M2)</b>							
STREET LITE-ALDER ST	WESTINGHOUSE	713097	10	120/240	7.2 kV	POLE	1 PHASE
STREET LITE-F ZONE	RELIANT POWER	8712	15	120/240	7.2 kV	POLE	1 PHASE
SW-6	MOLONEY	A2033-1	15	120/240	7.2 kV	POLE	1 PHASE
SW-6	MOLONEY	A2033-2	15	120/240	7.2 kV	POLE	1 PHASE
SW-6	MOLONEY	A2033-3	15	120/240	7.2 kV	POLE	1 PHASE
SW-8	WESTINGHOUSE	LD59197	75	347/600	7.2 kV	POLE	1 PHASE
SW-8	MOLONEY	A2034-1	75	347/600	7.2 kV	POLE	1 PHASE
SW-8	MOLONEY	A2034-2	75	347/600	7.2 kV	POLE	1 PHASE
SW-8	MOLONEY	A2034-3	75	347/600	7.2 kV	POLE	1 PHASE
TA-1	MOLONEY	A1738-485	25	120/240	7.2 kV	POLE	1 PHASE
TA-10	MOLONEY	A1738-491	25	120/240	7.2 kV	POLE	1 PHASE
TB-11	WESTINGHOUSE	713437	10	120/240	7.2 kV	POLE	1 PHASE
TB-16 (By Bio Pad)	MOLONEY	A2724-93	15	120/240	7.2 kV	POLE	1 PHASE
TB-18	MOLONEY	A1737-496	15	120/240	7.2 kV	POLE	1 PHASE
TB-21	WESTINGHOUSE	17EOZ28-62	10	120/240	7.2 kV	POLE	1 PHASE
TB-22	MOLONEY	A2005-279	15	120/240	7.2 kV	POLE	1 PHASE
VR-1	MOLONEY	A2164-408	25	120/240	7.2 kV	POLE	1 PHASE
VR-2	PIONEER	G10293-2	25	120/240	7.2 kV	POLE	1 PHASE
WALKING TRAIL	MOLONEY	A2343-277	15	120/240	7.2 kV	POLE	1 PHASE
WALKING TRAIL	G E	2845	10	120/240	7.2 kV	POLE	1 PHASE
WTP-4	MOLONEY	A2725-268	25	120/240	7.2 kV	POLE	1 PHASE
WTP-100	MOLONEY	A2725-271	25	120/240	7.2 kV	POLE	1 PHASE
PC HIGHWAY 7	WESTINGHOUSE	LC27-435	10	120/240	7.2 kV	POLE	1 PHASE

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MONCTON BLDG 47/48	CARTE	1B039-001	500	347/600	12.47 KV	PAD MOUNTED	3 PHASE
MONCTON BLDG 47/48	CARTE	2B179-001	150	120/208	12.47 KV	PAD MOUNTED	3 PHASE
MONCTON BLDG 1	MALONEY	A1920-3	50	120/240	12.47 KV	POLE	1 PHASE
MONCTON BLDG 1	MALONEY	A1920-1	50	120/240	12.47 KV	POLE	1 PHASE
MONCTON BLDG 1	MALONEY	A1920-2	50	120/240	12.47 KV	POLE	1 PHASE
MONCTON BLDG 2	MALONEY	866/52	75	600	12.47 KV	POLE	1 PHASE
MONCTON BLDG 2	MALONEY	866/48	75	600	12.47 KV	POLE	1 PHASE
MONCTON BLDG 2	MALONEY	866/38	75	600	12.47 KV	POLE	1 PHASE
MONCTON BLDG 2 BACKSIDE	WESTINGHOUSE	8903E4766-001	100	120/240	12.47KV	POLE	1 PHASE
MONCTON BLDG 42	WESTINGHOUSE	8903E4766-008	100	120/240	12.47KV	POLE	1 PHASE
MONCTON BLDG 60A	WESTINGHOUSE	89-03E-4762-019	75	120/240	12.47KV	POLE	1 PHASE
MONCTON BLDG 60A	WESTINGHOUSE	89-03E-4762-024	75	120/240	12.47KV	POLE	1 PHASE
MONCTON BLDG 60A	WESTINGHOUSE	89-03E-4762-022	75	120/240	12.47KV	POLE	1 PHASE
MONCTON BLDG 60A	CARTE	TD191-003	50	120/240	12.47KV	POLE	1 PHASE
MONCTON BLDG 60A	CARTE	TD191-001	50	120/240	12.47KV	POLE	1 PHASE
MONCTON BLDG 52	RELIANT	KW8855-8	100	120/240	12.47	POLE	1 PHASE
MONCTON BLDG 70	FERRANTI PACKARD	110925	50	120/240	12.47KV	POLE	1 PHASE