



## GE Energy

General Electric Canada International Inc.  
3060 Peugeot  
Laval, Québec H7L 5C5

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DATE: **November 12, 2013**

PROPOSAL #: **371-HM-O10-13-R2**

CUSTOMER: **Hawkesbury Hydro**

NUMBER OF PAGES: **8**

ADDRESS:

ATTENTION: **Michel Poulin**  
TELEPHONE: **613-632-6689**  
CELLULAR:  
FACSIMILE: **613-632-8603**  
E-MAIL: **michelpoulin@hydrohawkesbury.ca**

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Following your request, General Electric Canada International Inc. (GECII) is pleased to submit our proposal for the following project:

### **110 kV Station Retrofit – BPR Ref.: 14988**

#### **Item 1- Commissioning of the following equipment:**

- Two Siemens circuit switchers per 10.3.1
- One new Pennsylvania transformer per 10.3.3
- One existing Moloney Electric transformer (controls only)
  - Auxiliary system
  - Tap changer control
  - Alarm and trip signals
  - Oil sample
- Protection panels
  - Protection relay programming and testing;
  - Protection and control system commissioning.
- Current transformers;
  - Ratio
  - Polarity
  - Saturation
- Power cables per 10.3.2
- Station grounding system per 10.3.4

Test & inspection per 10.4

Report per 10.5

Not included:

- Metering equipment to be commissioned by PUI

**Our price (excluding taxes): \$49 250.00**



**Item 2- Engineering**

- Preparation of the technical specification of equipment located in the protection and control panel
- Preparation of a bill of material list
- Power system study for the transformer differential relay
- Preparation of the relay logic files
- Technical support for the integration of the power and control panel in the new building
  - A maximum of twenty four (24) straight time hours included.
- Preparation of the ESA package for the aforementioned protection panel
  - ESA & other permit fees, as required, not included
  - ESA process may impact the project schedule

**Our price (excluding taxes): \$23 750.00**

**Item 3- Training on protection panel**

- Preparation
- Two eight hour days at training at site included

**Our price (excluding taxes): \$16 200.00**

**Item 4- Project management support**

- A maximum of forty hours included
- A maximum of two site visits included

**Our price (excluding taxes): \$10 250.00**

**Item 5- Assistance at start-up**

- Three days included at site

**Our price (excluding taxes): \$8 200.00**



## Item 6- OPTIONAL ITEM

Supply and installation of auxiliary services and a protection system in a new control building (supplied by others) for the following equipment:

- Two Siemens circuit switchers
- One new Pennsylvania transformer
- One existing Moloney Electric transformer

Equipment included in this proposal:

- One DC System per 9.3.1
- One DC Panel board per 9.2.6
- One Protection panel per 9.3.2, 9.3.3
- Two Transformer Protective Relays per 9.3.1
  - Exception: GECII will provide two Multilin T35 relays
- Drawings per 9.3.4
  - A maximum of four drawings included
- One rack mount per 9.3.2
  - Exception: GECII will provide a unit similar following examples.

Delivery: 16-19 weeks after engineering activities describe below completed:

- Preparation of the technical specification of equipment located in the protection and control panel
- Preparation of a bill of material list



**Our price (excluding taxes): \$108 250.00**

**Please consult the following pages for specific and general conditions.**



### **SPECIFIC CONDITIONS**

- Ventilated pricing for information only.
  - Prices subject to change if the complete proposal is not awarded.
- All non-reasonable delays not attributable to our personnel will incur additional charges.
- A notice of fourteen (14) days following a purchase order is required to schedule work and allocate the necessary resources, otherwise additional charges will apply.
- A notice of fourteen (14) days is required to modify an established schedule, otherwise additional charges will apply.
- Two copies of relevant documentation (engineering drawings, one-line diagrams, equipment shop drawings, equipment instruction manuals, settings for protection relays, etc.) must be supplied for the length of the contract.

### **Site work**

- Customer required training, security clearances and all related expenses are NOT included in this proposal.
  - If required, additional charges will apply.
- Onsite parking for our vehicles must be supplied free of charge.
- A maximum of ten (10) site visit(s) is/are included in this proposal.
- Site work shall occur in an uninterrupted and sequential fashion.
- Price valid for work executed during:
  - Straight time exclusive of GE holidays.
    - Straight-time shall consist of eight (8) hour work days Monday through Friday, 8 AM to 5 PM.
- Travel and living expenses are included.
- For safety reasons, we require an up-to-date single line diagram of installation, including all changes & modifications prior to the commencement of site work.
- All waste material generated at site will remain at site are the responsibility of the customer.
- Isolation of the main power supply to the customer's facility is the responsibility of others.
  - For added security, we reserve the right to add our own locks and grounds.
- Basic services such as: telephone, photocopies, fax, etc. must be available free of charge.
  - If required, a functional workspace must be made available in a trailer or similar facility.
- Adequate lighting and temporary power supply connections for our equipment must be available free of charge.
- Qualified electricians to perform all necessary operations (opening and closing of breakers, etc.) on all electrical equipment must be available for the duration of the work free of charge.
- If unionized employees familiar with the site, safety rules, procedures and regulations of the site are required, they must be available free of charge.
- Any additional repairs, tests or verifications required by the customer and not included in the original scope of work, will be billed as an extra cost.
  - A written authorization from the customer is required before such work can commence.
- Whenever the disconnecting of power cables, taping, etc. is required for the execution of our testing and work, these services shall be provided free of charge.



**Commissioning**

- The commissioning services quoted are based upon GECII standard commissioning practices and exclude NETA compliance.
- The equipment must be completely installed and cleaned with all interconnect wiring and power cabling connected prior to GECII arriving on site.
- Control power must be available.
- Price is contingent upon continuous, unobstructed access to de-energized (except for control power) equipment.

**Power system studies**

- All system information required for the study must be supplied by others free of charge.
  - Following a purchase order, GECII will advise of required information.
- Delivery time will be confirmed once the validated data is received based on prior sales / resource loading.
- The labour to make changes in field settings of the protective equipment as a result of the coordination study is included in this proposal.

**Formal training**

- Included the preparation and supply of documentation required for training.
- Maximum five (5) participants
- Sixteen (16) hours maximum.

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**TOTALS**

**Total Price for items 1,2,3,4, & 5 (excluding taxes): \$107 650.00**

**Price for optional item 6 (excluding taxes): \$108 250.00**



## **GENERAL CONDITIONS**

- Items or services not specifically outlined in this proposal are not included.
  - Unless otherwise stated in the specific conditions, the supply of products and services by GECII will be carried out per the terms and conditions outlined in document ES104REV4 attached to this proposal.
    - This proposal is valid for 30 days.
    - Terms of payment for items 1,2,3,4 & 5 are NET 30 days.
    - Payment terms for the item 6 only - Optional item:
      - PO Receipt 50%
      - Equipment delivered at site 50%
  - Price valid for work executed in the ninety (90) days following a purchase order otherwise the proposal will need to be revised.
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Prepared by:

***Hervé Mongeau***  
Sales Application Specialist

**Please send the purchase order to the following address:**

**General Electric Canada International Inc.**

Att : François Kopal  
Proposal #: 371-HM-O10-13-R2  
3060 Peugeot  
Laval, Québec  
H7L 5C5

**For all inquiries concerning technical information/clarifications or commercial aspects of this proposal, please contact:**

Hervé Mongeau, Sales Application Specialist

E-mail : herve.mongeau@ge.com  
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**For all inquiries concerning commercial aspects of this proposal, please contact :**

François Kopal, Commercial Manager

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