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Bid Receiving Public Works and Government  
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800 Burrard Street, Room 219  
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Vancouver  
British Columbia  
V6Z 0B9  
Bid Fax: (604) 775-9381

**SOLICITATION AMENDMENT**  
**MODIFICATION DE L'INVITATION**

The referenced document is hereby revised; unless otherwise indicated, all other terms and conditions of the Solicitation remain the same.

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'invitation demeurent les mêmes.

**Comments - Commentaires**

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

**Issuing Office - Bureau de distribution**  
Public Works and Government Services Canada -  
Pacific Region  
800 Burrard Street, Room 219  
800, rue Burrard, pièce 219  
Vancouver  
British C  
V6Z 0B9

<b>Title - Sujet</b> South Substation Switchgear Replace	
<b>Solicitation No. - N° de l'invitation</b> EZ108-162126/A	<b>Amendment No. - N° modif.</b> 008
<b>Client Reference No. - N° de référence du client</b>	<b>Date</b> 2016-03-22
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$PWY-026-7753	
<b>File No. - N° de dossier</b> PWY-5-38400 (026)	<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 2016-03-29</b>	
<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> Liu (PWY), Patty	<b>Buyer Id - Id de l'acheteur</b> pwy026
<b>Telephone No. - N° de téléphone</b> (604) 775-6227 ( )	<b>FAX No. - N° de FAX</b> (604) 775-6633
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> PWGSC - Esquimalt Graving Dock - Victoria, BC	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

<b>Delivery Required - Livraison exigée</b>	<b>Delivery Offered - Livraison proposée</b>
<b>Vendor/Firm Name and Address</b> <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>

Solicitation No. - N° de l'invitation

EZ108-162126/A

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

Amd. No. - N° de la modif.

008

File No. - N° du dossier

PWY-5-38400

Buyer ID - Id de l'acheteur

pw026

CCC No./N° CCC - FMS No./N° VME

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Amendment 008 has been raised to incorporate Addendum no. 4.

All other terms and conditions remain unchanged.

**The following changes/clarifications in the tender documents are effective immediately.  
This addendum will form part of the contract documents.**

### **Special Instructions to Bidders**

#### **1.0 QUESTIONS**

1. Confirm if it is acceptable that the drawings are stamped by a Professional Engineer registered in any Canadian province.  
**Response: Refer to attached Electrical Addendum No. 3**
2. The quantity of required breakers is not the same on SLD drawing #5010 and GA drawing #5112. SLD has an extra 25KV breaker show. Please confirm.  
**Response: Refer to attached Electrical Addendum No. 3**
3. The quantity of required breakers is not the same on SLD drawing #5010 and GA drawing #5112. SLD has an extra 5KV breaker show. Please confirm.  
**Response: Refer to attached Electrical Addendum No. 3**
4. We have to include initial draw out assembly for 12kV use. Also we have to include second draw out assembly for future 25kV use. Line side PTs 3 PTs Y-Y, single winding for customer. Do we have to do a special winding for resistor? Solidly grounded Hydro.  
**Response: Refer to attached Electrical Addendum No. 3**
5. The specs establish a maximum symmetrical interrupting of 40 kA. SLD drawing shows 22kA. Please confirm max. Isc at 12kV is 22kA.  
**Response: Refer to attached Electrical Addendum No. 3**
6. Related with the protective relays (for 27KV and 5KV switchgear) the specifications do not match the drawings. Please clarify needs.  
**Response: Refer to attached Electrical Addendum No. 3**
7. The specs related with the differential protection establish six low-impedance current differential elements. Our proposal doesn't have dedicated CTs for high impedance 87. No bus differential protection will be included. Please confirm it is acceptable  
**Response: Refer to attached Electrical Addendum No. 3**
8. Related with the resistance temperature detector monitoring the specs establish that the system is capable of acquiring RTD data from as many as 12 RTDs. What are these required for? Transformers generally have temperature monitoring in the transformer.  
**Response: Refer to attached Electrical Addendum No. 3**

9. About the digital power meters type 1 there isn't any of them on SLD for 25KV or 5KV.  
Please clarify if it is correct

**Response: Refer to attached Electrical Addendum No. 3**

10. Drawing 5051 shows Type 1 meters and all other show type 2. Please clarify

**Response: Refer to attached Electrical Addendum No. 3**

11. The specs establish that digital meter shall be certified and sealed to Revenue Canada standard as applicable for devices to be used for reselling of energy but there is no request for Revenue Canada approved CTs or PTs. Please clarify

**Response: Refer to attached Electrical Addendum No. 3**

12. Drawing #5051 shows a connection from breaker to Ethernet switch. What is this connection?  
Drawing shows relay meter and breaker (3 connection to Ethernet switch for each breaker).  
Please clarify.

**Response: Refer to attached Electrical Addendum No. 3**

13. Will any additional bracing or support structure be required to support the existing sheet pile wall during the excavation and construction?  
Will the contractor be responsible for the engineering of this structure to insure the safety of the workers in the excavation during construction?  
Is the sheet pile wall strong enough to support itself?

**Response: Refer to attached Structural Addendum No. 3**

**REFER TO:**

Structural Addendum No. 3 dated Mar. 22, 2016 (1 page)

Electrical Addendum No. 3 dated Mar. 22, 2016 (1 page)

End of Addendum #4

The following changes in the tender documents are effective immediately. This addendum will form part of the contract documents.

**STRUCTURAL ADDENDUM No. 3**

This Addendum contains 1 page and 0 -11"x17" sketches

**RESPONSE TO QUESTIONS**

**QUESTION:** Will any additional bracing or support structure be required to support the existing sheet pile wall during the excavation and construction?  
Will the contractor be responsible for the engineering of this structure to insure the safety of the workers in the excavation during construction?  
Is the sheet pile wall strong enough to support itself?

**RESPONSE:** Contractor shall be responsible for the engineering of this structure to insure the safety of the workers in the excavation during construction to meet Work Safe BC requirements.

**QUESTION:** Page 5501 Detail 2 5607 "remove existing tie rods. Refer to structural Methodology prior to removal to ensure Proper Sequencing Of Events"  
Detail 2 on 5607 does not indicate any existing tie rods or the methodology required for removal.  
Please confirm the methodology for removing the existing tie rods.

**RESPONSE:** Refer to section 2/5607 for approximate location of 5 Nos of existing tie rod across the foot print of building. Contractor shall be responsible for engineering and the removal of tie rods to insure the safety of the workers in the excavation during construction to meet Work Safe BC requirements

**END OF STRUCTURAL ADDENDUM No .3**

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THE FOLLOWING ADDENDUM SUPERSEDES INFORMATION CONTAINED IN DRAWINGS AND SPECIFICATIONS ISSUED FOR THE PROJECT TO THE EXTENT REFERENCED. THIS ADDENDUM FORMS PART OF THE TENDER DOCUMENTS AND IS SUBJECT TO ALL OF THE CONDITIONS SET OUT IN THE CONTRACT CONDITIONS.

This electrical addendum contains one (1) page.

**Part 1 Specification Changes**

- .1 No changes this addendum

**Part 2 Drawing Changes/Clarification requests, requests in BOLD, response in *Italics***

- .1 **Confirm if it is acceptable that the drawings are stamped by a Professional Engineer registered in any Canadian province**
  - .1 *No, engineer is required to be registered in BC as the work is being done here.*
- .2 **The quantity of required breakers is not the same on SLD drawing #5010 and GA drawing #5112. SLD has an extra 5KV breaker show. Please confirm.**
  - .1 *Should only show 1 spare 5kv breaker on 5010.*
- .3 **We have to include initial draw out assembly for 12kV use. Also we have to include second draw out assembly for future 25kV use. Line side PTs 3 PTs Y-Y, single winding for customer. Do we have to do a special winding for resistor? Solidly grounded Hydro.**
  - .1 *Resistor is required to be operable at both 12 and 25kv.*
- .4 **The specs establish a maximum symmetrical interrupting of 40 kA. SLD drawing shows 22kA. Please confirm max. Isc at 12kV is 22kA.**
  - .1 *Provide 40kA rated equipment*
- .5 **Related with the protective relays (for 27KV and 5KV switchgear) the specifications do not match the drawings. Please clarify needs.**
  - .1 *There is insufficient data provided to generate a meaningful response.*
- .6 **The specs related with the differential protection establish six low-impedance current differential elements. Our proposal doesn't have dedicated CTs for high impedance 87. No bus differential protection will be included. Please confirm it is acceptable**
  - .1 *We require bus differential protection.*
- .7 **Related with the resistance temperature detector monitoring the specs establish that the system is capable of acquiring RTD data from as many as 12 RTDs. What are these required for? Transformers generally have temperature monitoring in the transformer.**
  - .1 *Please provide RTD with requested inputs for future use.*
- .8 **About the digital power meters type 1 there isn't any of them on SLD for 25KV or 5KV. Please clarify if it is correct**
  - .1 *M1 meters where removed. None are required.*
- .9 **The specs establish that digital meter shall be certified and sealed to Revenue Canada standard as applicable for devices to be used for reselling of energy but there is no request for Revenue Canada approved CTs or PTs.**
  - .1 *The meter is required for tenant billing. Supply a system which is compatible with this requirement.*
- .10 **Drawing #5051 shows a connection from breaker to Ethernet switch. What is this connection? Drawing shows relay meter and breaker (3 connection to Ethernet switch for each breaker). Please clarify.**
  - .1 *This if from the breaker digital trip device.*

**END OF REPORT**