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Bid Receiving Public Works and Government  
Services Canada/Réception des soumissions Travaux  
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800 Burrard Street, Room 219  
800, rue Burrard, pièce 219  
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> Mechanical Systems Energy Upgrade	
<b>Solicitation No. - N° de l'invitation</b> K4A22-180000/A	<b>Amendment No. - N° modif.</b> 003
<b>Client Reference No. - N° de référence du client</b>	<b>Date</b> 2017-07-20
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$PWY-028-8091	
<b>File No. - N° de dossier</b> PWY-7-40047 (028)	<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 2017-08-01</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Pacific Daylight Saving Time PDT
<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> Lam (PWY), Tian	<b>Buyer Id - Id de l'acheteur</b> pwy028
<b>Telephone No. - N° de téléphone</b> (604) 363-7968 ( )	<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> EC - Pacific Environmental Science Centre - North Vancouver, 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  
K4A22-180000/A

Amd. No. - N° de la modif.  
003

Buyer ID - Id de l'acheteur  
pwy028

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

File No. - N° du dossier CCC No./N°

CCC - FMS No./N° VME

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The Solicitation Amendment 003 is raised to issue Addendum 001.

Please see Addendum 001 herein.

All other terms and conditions remain unchanged.

**GENERAL**

The following changes in the Tender Documents are effective IMMEDIATELY.  
This addendum will form part of the Contract Documents

**SPECIFICATIONS**

1. Under specifications section 23 06 00 table 2.3 Boiler – Hydronic Heating insert the following performance requirements:

<b>Boilers</b>				
<b>Tag</b>	<b>Units</b>	<b>B-1</b>	<b>B-2</b>	<b>B-3</b>
Excess Oxygen – Max.	%O <sub>2</sub>	4	4	4
Excess Oxygen – Ave.	%O <sub>2</sub>	3	3	3

2. Section 23 06 01
  - .1 Request for alternates: Boiler – Cleaver Brooks CFC-E
    - .1 Excess O<sub>2</sub> levels exceed the specified burner maximum levels.
    - .2 Levels indicated in this addendum for clarification for other alternate boiler requests.
    - .3 Not approved as alternate
  3. Under specification section 23 52 00 add article 3.2.4: “3.2.4 Trim oxygen levels over entire firing range to a maximum of 4% unless a higher level is required by the gas inspection authority.”
  4. Refer to attached AHRI certificate for boiler performance for specified boilers.
  5. Revise specification section 25 05 02 article 1.2.4 quantity of sensors from eight to six as indicated in the schematic M-9.

**DRAWINGS:**

1. Domestic Cold Water 150mm Main Insulation:
  - .1 On Drawing M4, Plan 1 add drawing note 14. Direct note 14 to the existing DCW rising from below to the existing PRV assembly. Add the following drawing note: “Note 14: Install new insulation on existing 150mm SS incoming water main from gate valve located in the water entry room up to the inlet of the main pressure reducing valve. Insulate bypass and low side piping (2”) on incoming water side (Piping yet to be replaced under different contract).”
  - .2 Refer to attached photos for existing site conditions.
  - .3 Clarification: At the site meeting it was mentioned that the replacement of the DCW line was going to be added to the scope of work. Due to site conditions, immediate repair was required and the pipe was replaced from the water entry room on the first floor, up to the RPBA at the west end of the boiler room.

**CLARIFICATIONS**

1. Temporary Heating for the Process Load:

- .1 The temporary water heater temperature shall be controlled by its integral controller to maintain a setpoint temperature. The tank is not interfaced with the BMS. Isolation valves are manually controlled.
2. Boiler Control:
  - .1 All temperature sensors indicated in the boiler heating schematic are to be wired to the BMS. The boilers are provided with pre-wired temperature sensors for the boiler control. Wiring between boiler controller and boilers control panel is included in the mechanical contractor scope. BMS shall enable the boiler plant and reset the supply water temperature setpoint as per sequences of operation.
3. Domestic Hot Water Control:
  - .1 The DHW system shall be fully controlled by the BMS. Sequences of operation will be provided as a site instruction before the DHW system installation.

**QUESTIONS RECEIVED TO JULY 20, 2017**

1. Q. Is it acceptable if we apply for a single project approval from BC Hydro Alliance
  - .1 A. No; BC Hydro Alliance membership is required

**ATTACHMENTS**

1. Boiler Performance Testing Certificate: "AHRICertificate CT3-57.pdf", 1 page
2. Water Main Photos:
  - .1 Pic 1 - Incoming Water Main.jpeg
  - .2 Pic 2 - Boiler Room Water Main.jpeg
  - .3 Pic 3 - Boiler Room Water Main up to PRV.jpeg

**END OF ADDENDUM 1**



Boiler Performance Testing Certificate:  
AHRI Certificate CT3-57

# Certificate of Product Ratings

**AHRI Certified Reference Number: 2122016**

**Date: 5/19/2016**

**†Status: Active**

**Product: Commercial Boiler Heating Equipment**

**Model Number: CT3-57**

**Manufacturer: VISSMANN MANUFACTURING COMPANY, INC.**

**Trade/Brand name: VISSMANN**

**Rated as follows in accordance with Department of Energy (DOE) Boiler test procedures as published in the latest edition of the Code of Federal Regulations, 10 CFR Part 431 and subject to verification of rating accuracy by AHRI-sponsored, independent, third party testing:**

Combustion Efficiency: 96.9 %

Thermal Efficiency: 96.9 %

**The following data is for reference only and is not certified by AHRI:**

Material:	Stainless Steel
Location:	Indoor
Fuel Type:	Natural Gas; Propane Gas
Input:	2160 MBTUH
Gross Output:	2094 MBTUH
Ignition Type:	Intermittent/Electronic Ignition
Heating Medium:	Water
Draft Type:	Forced Draft
CO2:	10.0

\* Ratings followed by an asterisk (\*) indicate a voluntary rerate of previously published data, unless accompanied with a WAS, which indicates an involuntary rerate.

## DISCLAIMER

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## CERTIFICATE VERIFICATION

The information for the model cited on this certificate can be verified at [www.ahridirectory.org](http://www.ahridirectory.org), click on "Verify Certificate" link and enter the AHRI Certified Reference Number and the date on which the certificate was issued, which is listed above, and the Certificate No., which is listed at bottom right.

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**CERTIFICATE NO.:** 131081545707493965



Pic 1 - Incoming Water Main



Pic 2 - Boiler Room Water Main





Pic 3 - Boiler Room Water Main to PRV