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**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  
Ontario Region  
33 City Centre Drive  
Suite 480  
Mississauga  
Ontario  
L5B 2N5

<b>Title - Sujet</b> Fume Hood Controllers	
<b>Solicitation No. - N° de l'invitation</b> KW405-121097/A	<b>Amendment No. - N° modif.</b> 002
<b>Client Reference No. - N° de référence du client</b> KW405-121097	<b>Date</b> 2013-01-18
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$TOR-016-6139	
<b>File No. - N° de dossier</b> TOR-2-35281 (016)	<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 2013-01-30</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Eastern Standard Time EST
<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> Yari, Helen	<b>Buyer Id - Id de l'acheteur</b> tor016
<b>Telephone No. - N° de téléphone</b> (905) 615-2081 ( )	<b>FAX No. - N° de FAX</b> (905) 615-2060
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b>	

**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>

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This solicitation amendment 002 is being issued to address questions and to revise the solicitation.

Question 1: The title mentions monitor / controller. Could you clarify if you wish the device to control the air flow through the hood, monitor the air flow through the hood, or both?

Answer 1: The purpose of the fume hood controller is to control air flow through the variable sash opening, maintaining safe containment in the fume hood.

Question 2: How do you want to be able to adjust the monitor / controller? Through a built in interface keypad or by software & laptop plugin?

Answer 2: All setpoints and adjustments to be made through the built in keypad.

Question 3: The specification mentions inputs for sash position and face velocity. Do you want the individual units to control one or the other or both?

Answer 3: All units must operate with both face velocity control and sash position and air flow control as per the configuration menus, separate firmware is not required.

#### **At - Annex A, Requirement**

Replace Annex A, Requirement with Annex A, Requirement - Revision 1, attached herein.

## ANNEX A

### REQUIREMENT – REVISION 1

#### Fume Hood Monitor/Controller Module

**Monitor / Controller Module** - The purpose of the fume hood controller is to control air flow through the variable sash opening, maintaining safe containment in the fume hood. All units must operate with both face velocity control and sash position and air flow control as per the configuration menus. Separate firmware shall not be not required.

##### Display

- Digital Display which is able to show the velocity of air entering the fume hood
- Range 0 to 5.08 m/s  
0 to 4,720 l/s
- Resolution 0.01 m/s

**Keypad** - All setpoints and adjustments may be adjusted through the built in keypad on the monitor/controller.

##### Inputs

3 Types – Sash Position, Sash Contact, Setback In  
Flow Input – 0 to 10VDC

##### Outputs

Type 0 to 10VDC or 4 to 20 mA  
Range – Controller must be able to be configurable to maximum face velocity, volumetric flow, or sash position

**Sash Position Sensor** must be compatible with controller  
Maximum Retraction: 1,270mm

**Velocity Sensor** – The anemometer (measures air velocity) must be compatible with controller

Range – 0 to 5.08 m/s  
Resolution 0.00508 m/s

##### Network Capability

Controller must be a stand-alone device or as part of a building automation system via **BACnet** MS/TP protocol.

**Vent Kit** – Or some equivalent apparatus that references fume hood interstitial space