



**RETURN BIDS TO:**

**RETOURNER LES SOUMISSIONS À:**

**Bid Receiving - PWGSC / Réception des soumissions -  
TPSGC**

**11 Laurier St. / 11, rue Laurier**

**Place du Portage, Phase III**

**Core 0B2 / Noyau 0B2**

**Gatineau, Québec K1A 0S5**

**Bid Fax: (819) 997-9776**

**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**

THIS DOCUMENT CONTAINS A SECURITY  
REQUIREMENT / DOCUMENT CONTIENT DES  
EXIGENCES RELATIVES À LA SÉCURITÉ

**Vendor/Firm Name and Address**

**Raison sociale et adresse du  
fournisseur/de l'entrepreneur**

**Issuing Office - Bureau de distribution**

Electrical & Electronics Products Division

11 Laurier St./11, rue Laurier

7B3, Place du Portage, Phase III

Gatineau, Québec K1A 0S5

<b>Title - Sujet</b> Audio-Visual Technology	
<b>Solicitation No. - N° de l'invitation</b> W8474-197662/A	<b>Amendment No. - N° modif.</b> 005
<b>Client Reference No. - N° de référence du client</b> 6000436037	<b>Date</b> 2018-07-19
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$\$HN-331-74963	
<b>File No. - N° de dossier</b> hn331.W8474-197662	<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 2018-07-24</b>	
<b>Time Zone</b> Fuseau horaire Eastern Daylight Saving Time EDT	
<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> Turner, Louie	<b>Buyer Id - Id de l'acheteur</b> hn331
<b>Telephone No. - N° de téléphone</b> (873) 469-3342 ( )	<b>FAX No. - N° de FAX</b> ( ) -
<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/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>	
<b>Signature</b>	<b>Date</b>

**Amendment # 5 is issued to revise Appendix E to Annex B and Appendix G to Annex B.**

## **APPENDIX E TO ANNEX B – STATEMENT OF WORK**

**AMENDMENT**

**EQUIPMENT LIST**

**JULY 2018**

*This page intentionally left blank*

## Table of Contents

<b>EQT_1 (HDTV TUNER RACK &amp; THINKLOGICAL AV RACK) .....</b>	<b>I</b>
<b>FLOOR AREA .....</b>	<b>VII</b>

## EQT\_1 (HDTV TUNER RACK & THINKLOGICAL AV RACK)

Item	Criteria	Quantity	Notes
Fibre Optic Transmitter (For Remote PCs)	<ul style="list-style-type: none"> <li>The video switching system has been tested and approved to operate in this environment. The Thinklogical system has undergone the Security Assessment and Authorization (SA&amp;A) process and obtained Authorizations to Operate (ATO).</li> </ul>	36	<ul style="list-style-type: none"> <li><b>Product cannot be substituted</b> <ul style="list-style-type: none"> <li>Make: Thinklogical</li> <li>Model:</li> <li>VTM-U00024-LCTX</li> </ul> </li> </ul>
Fibre Optic Rack Mount Chassis (For Remote PCs)	<ul style="list-style-type: none"> <li>The video switching system has been tested and approved to operate in this environment. The Thinklogical system has undergone the Security Assessment and Authorization (SA&amp;A) process and obtained Authorizations to Operate (ATO).</li> </ul>	18	<ul style="list-style-type: none"> <li><b>Product cannot be substituted</b> <ul style="list-style-type: none"> <li>Make: Thinklogical</li> <li>Model:</li> <li>VTS-004200</li> </ul> </li> </ul>
Fibre Optic Transmitter (For Logo Generator)	<ul style="list-style-type: none"> <li>The video switching system has been tested and approved to operate in this environment. The Thinklogical system has undergone the Security Assessment and Authorization (SA&amp;A) process and obtained Authorizations to Operate (ATO).</li> </ul>	1	<ul style="list-style-type: none"> <li><b>Product cannot be substituted</b> <ul style="list-style-type: none"> <li>Make: Thinklogical</li> <li>Model:</li> <li>VQM-AH0003-LCTX</li> </ul> </li> </ul>
Fibre Optic Rack Mount Chassis (For Logo Generator)	<ul style="list-style-type: none"> <li>The video switching system has been tested and approved to operate in this environment. The Thinklogical system has undergone the Security Assessment and Authorization (SA&amp;A) process and obtained Authorizations to Operate (ATO).</li> </ul>	1	<ul style="list-style-type: none"> <li><b>Product cannot be substituted</b> <ul style="list-style-type: none"> <li>Make: Thinklogical</li> <li>Model:</li> <li>CHS-00001</li> </ul> </li> </ul>

Item	Criteria	Quantity	Notes
Fibre Optic Transmitter (For HDTV TUNERS)	<ul style="list-style-type: none"> <li>The video switching system has been tested and approved to operate in this environment. The Thinklogical system has undergone the Security Assessment and Authorization (SA&amp;A) process and obtained Authorizations to Operate (ATO).</li> </ul>	6	<ul style="list-style-type: none"> <li><b>Product cannot be substituted</b> <ul style="list-style-type: none"> <li>Make: Thinklogical</li> <li>Models:</li> <li>VQM-AH0003-LCTX</li> </ul> </li> </ul>
Fibre Optic Audio Receiver (For floor speakers)	<ul style="list-style-type: none"> <li>The video switching system has been tested and approved to operate in this environment. The Thinklogical system has undergone the Security Assessment and Authorization (SA&amp;A) process and obtained Authorizations to Operate (ATO).</li> </ul>	1	<ul style="list-style-type: none"> <li><b>Product cannot be substituted</b> <ul style="list-style-type: none"> <li>Make: Thinklogical</li> <li>Models:</li> <li>VQM-HA0006-LCTX</li> </ul> </li> </ul>
Fibre Optic Chassis (For HDTV TUNERS)	<ul style="list-style-type: none"> <li>The video switching system has been tested and approved to operate in this environment. The Thinklogical system has undergone the Security Assessment and Authorization (SA&amp;A) process and obtained Authorizations to Operate (ATO).</li> </ul>	2	<ul style="list-style-type: none"> <li><b>Product cannot be substituted</b> <ul style="list-style-type: none"> <li>Make: Thinklogical</li> <li>Model:</li> <li>CHS-000004</li> </ul> </li> </ul>
Fibre Optic Matrix Switch (Matrix Switcher / KVM system)	<ul style="list-style-type: none"> <li>The video switching system has been tested and approved to operate in this environment. The Thinklogical system has undergone the Security Assessment and Authorization (SA&amp;A) process and obtained Authorizations to Operate (ATO).</li> </ul>	1	<ul style="list-style-type: none"> <li><b>Product cannot be substituted</b> <ul style="list-style-type: none"> <li>Make: Thinklogical</li> <li>Model:</li> <li>TLX-MS-000320</li> </ul> </li> </ul>

Item	Criteria	Quantity	Notes
Controller Card (Matrix Switcher / KVM system)	<ul style="list-style-type: none"> <li>The video switching system has been tested and approved to operate in this environment. The Thinklogical system has undergone the Security Assessment and Authorization (SA&amp;A) process and obtained Authorizations to Operate (ATO).</li> </ul>	1	<ul style="list-style-type: none"> <li><b>Product cannot be substituted</b> <ul style="list-style-type: none"> <li>Make: Thinklogical</li> <li>Model:</li> <li>TLX-MSM-C00320</li> </ul> </li> </ul>
Fibre Optic Receiver (Input / Output Card)	<ul style="list-style-type: none"> <li>The video switching system has been tested and approved to operate in this environment. The Thinklogical system has undergone the Security Assessment and Authorization (SA&amp;A) process and obtained Authorizations to Operate (ATO).</li> </ul>	16	<ul style="list-style-type: none"> <li><b>Product cannot be substituted</b> <ul style="list-style-type: none"> <li>Make: Thinklogical</li> <li>Model:</li> <li>VXM-D00T16 REV A</li> </ul> </li> </ul>
SMP (System Management Portfolio Module)	<ul style="list-style-type: none"> <li>The video switching system has been tested and approved to operate in this environment. The Thinklogical system has undergone the Security Assessment and Authorization (SA&amp;A) process and obtained Authorizations to Operate (ATO).</li> </ul>	1	<ul style="list-style-type: none"> <li><b>Product cannot be substituted</b> <ul style="list-style-type: none"> <li>Make: Thinklogical</li> <li>Model:</li> <li>SMP-M0000320</li> </ul> </li> </ul>
OSD (On-Screen Display Client Module)	<ul style="list-style-type: none"> <li>The video switching system has been tested and approved to operate in this environment. The Thinklogical system has undergone the Security Assessment and Authorization (SA&amp;A) process and obtained Authorizations to Operate (ATO).</li> </ul>	3	<ul style="list-style-type: none"> <li><b>Product cannot be substituted</b> <ul style="list-style-type: none"> <li>Make: Thinklogical</li> <li>Model:</li> <li>SMP-C00001</li> </ul> </li> </ul>

Item	Criteria	Quantity	Notes
Fibre Optic Chassis (4 screen Destinations)	<ul style="list-style-type: none"> <li>The video switching system has been tested and approved to operate in this environment. The Thinklogical system has undergone the Security Assessment and Authorization (SA&amp;A) process and obtained Authorizations to Operate (ATO).</li> </ul>	1	<ul style="list-style-type: none"> <li><b>Product cannot be substituted</b> <ul style="list-style-type: none"> <li>Make: Thinklogical</li> <li>Model:</li> <li>CHS-000004</li> </ul> </li> </ul>
Control Processor (EQT_1)	<ul style="list-style-type: none"> <li>Eight RS-232 ports</li> <li>Eight relay ports</li> <li>Eight IR ports</li> <li>LAN port to connect to AV network</li> <li>Four port switch to extend network over a secure isolated Ethernet network</li> <li>Ability to communicate with other integrated controllers</li> <li>PoE Power Output = 70W</li> <li>Height: 1 RU</li> </ul>	1	<ul style="list-style-type: none"> <li><b>Recommended make and model:</b> <ul style="list-style-type: none"> <li>CRESTRON</li> <li>PRO3</li> </ul> </li> <li>If alternate product proposed, please provide manufacturer's specification sheet</li> </ul>
Control Pack Inter-Block (For Control Processor)	<ul style="list-style-type: none"> <li>2 way device control RS-232/422/485</li> <li>Support IR/Serial up to 1.2 MHz or Serial TTL 115.2k Baud</li> <li>Control indicators</li> <li>I/O up to 8</li> <li>4 Relays</li> <li>2 Bidirectional Ports (RS-232/422/485)</li> <li>1 LAN (Ethernet 10/100 Tbase)</li> </ul>	1	<ul style="list-style-type: none"> <li><b>Recommended make and model:</b> <ul style="list-style-type: none"> <li>CRESTRON</li> <li>DIN-AP3</li> </ul> </li> <li>If alternate product proposed, please provide manufacturer's specification sheet</li> </ul>
Media Converter (Red Pc / Black Pc Racks)	<ul style="list-style-type: none"> <li>Ability to convert 100BaseFX fibre optic signal to 10BaseT or 100BaseTX electrical signal ST connections</li> </ul>	2	<ul style="list-style-type: none"> <li><b>Recommended make and models:</b> <ul style="list-style-type: none"> <li>Luxcom</li> <li>OM101-MM-ST</li> <li>OM1001-SX-ST</li> </ul> </li> <li>If alternate product proposed, please provide manufacturer's specification sheet</li> </ul>

Item	Criteria	Quantity	Notes
Media Converter Mounting Panel (EQT_1)	<ul style="list-style-type: none"> <li>• Ability to hold up to three media converters</li> <li>• Height: 1RU</li> </ul>	1	<ul style="list-style-type: none"> <li>• <b>Recommended make and model:</b> <ul style="list-style-type: none"> <li>• Luxcom</li> <li>• MP05</li> </ul> </li> <li>• If alternate product proposed, please provide manufacturer's specification sheet</li> </ul>
Network Switch (EQT_1)	<ul style="list-style-type: none"> <li>• Rear panel ports</li> <li>• Front facing LED lights</li> <li>• Eight PoE+ ports</li> <li>• PoE Power Output: 130W</li> <li>• Two Gigabit RJ-45</li> <li>• Two Gigabit SFP</li> </ul>	1	<ul style="list-style-type: none"> <li>• <b>Recommended make and model:</b> <ul style="list-style-type: none"> <li>• Luxul</li> <li>• AMS-1208P</li> </ul> </li> <li>• If alternate product proposed, please provide manufacturer's specification sheet</li> </ul>
Audio Power Amplifier (EQT_1)	<ul style="list-style-type: none"> <li>• Class D Amplifier</li> <li>• Four channel /200 Watts per channel</li> <li>• 4 or 8 ohms / 800 watts rms output power</li> <li>• Energy Star Qualified</li> <li>• Convection Cooled / Fanless operation</li> <li>• Frequency response 20 Hz to 20 kHz, ±1 dB</li> <li>• THD Noise 0.1%, 20 Hz-20 kHz, 8 ohms, 3 dB below clipping</li> <li>• Voltage Gain 23X (27DB)</li> <li>• Control Port (1) 3.5 mm captive screw connector, 2 pole</li> <li>• Power Input: 100-240 VAC 50/60 Hz</li> <li>• Mounting with Rack Mount</li> </ul>	1	<ul style="list-style-type: none"> <li>• <b>Recommended make and model:</b> <ul style="list-style-type: none"> <li>• EXTRON</li> <li>• XPA-2004</li> <li>• XPA-2003C</li> </ul> </li> <li>• If alternate product proposed, please provide manufacturer's specification sheet</li> </ul>
Digital Matrix Processor with rack shelf (Audio distribution)	<ul style="list-style-type: none"> <li>• 4x4 Line Level mixer</li> <li>• DSP signal processing</li> <li>• 24bit/48kHz analog/digital converters</li> <li>• Low latency</li> <li>• Configurable (via software)</li> <li>• Serial Host control port RS 232 3.5 mm</li> <li>• Power consumption 3.6 Watts</li> </ul>		<ul style="list-style-type: none"> <li>• <b>Recommended make and model:</b> <ul style="list-style-type: none"> <li>• EXTRON</li> <li>• DMP 44 LC</li> </ul> </li> <li>• If alternate product proposed, please provide manufacturer's specification sheet</li> </ul>

Item	Criteria	Quantity	Notes
Logo Generator	<ul style="list-style-type: none"> <li>• Internal Memory (min 150 MB)</li> <li>• Supports Media files; Still Image or Video files</li> <li>• Supported format: PNG, JPG, TIFF, BMP, MP4</li> <li>• Resolution up to 1920X1080 pixels</li> <li>• Chroma sub-sampling up to 4:4:4</li> <li>• Native resolution decoding</li> <li>• Supports H.264 encoding/decoding</li> <li>• Ethernet &amp; RS-232 pass through control</li> <li>• IR wired control</li> <li>• Web interface for configuration</li> <li>• Front accessible USB port</li> <li>• Min of x1 HDMI output</li> </ul>	1	<ul style="list-style-type: none"> <li>• <b>Recommended make and model:</b> <ul style="list-style-type: none"> <li>• Extron</li> <li>• SMD-101</li> </ul> </li> <li>• If alternate product proposed, please provide manufacturer's specification sheet</li> </ul>
UPS	<ul style="list-style-type: none"> <li>• Operates on 120 VAC/60Hz current</li> <li>• Capacity of 1500VA/900 Watts</li> <li>• U module - Height: 2RU</li> <li>• Mounting points: 2</li> <li>• Power Surge protection</li> <li>• Running downtime: 6 to 18 min (Full/Half load)</li> <li>• Power cord: 10' NEMA 5-15 P Plug</li> <li>• Number of outlets: 8</li> <li>• Greenguard &amp; RoHS EU Directive 2002/95/ EC - 2011/65/EU Compliant</li> <li>• Covering Warranty: 3yrs / 2yrs for battery cells.</li> </ul>	2	<ul style="list-style-type: none"> <li>• <b>Recommended make and model:</b> <ul style="list-style-type: none"> <li>• Middle Atlantic</li> <li>• UPS S-1500R</li> </ul> </li> <li>• If alternate product proposed, please provide manufacturer's specification sheet</li> </ul>

## FLOOR AREA

Item	Criteria	Quantity	Notes
Fibre Optic Transmitter (For Local PCs)	<ul style="list-style-type: none"> <li>The video switching system has been tested and approved to operate in this environment. The Thinklogical system has undergone the Security Assessment and Authorization (SA&amp;A) process and obtained Authorizations to Operate (ATO).</li> </ul>	41	<ul style="list-style-type: none"> <li><b>Product cannot be substituted</b> <ul style="list-style-type: none"> <li>Make: Thinklogical</li> <li>Model:</li> <li>VTM-U00024-LCTX</li> </ul> </li> </ul>
Fibre Optic Rack Mount Chassis (For Local PCs)	<ul style="list-style-type: none"> <li>The video switching system has been tested and approved to operate in this environment. The Thinklogical system has undergone the Security Assessment and Authorization (SA&amp;A) process and obtained Authorizations to Operate (ATO).</li> </ul>	21	<ul style="list-style-type: none"> <li><b>Product cannot be substituted</b> <ul style="list-style-type: none"> <li>Make: Thinklogical</li> <li>Model:</li> <li>VTS-004200</li> </ul> </li> </ul>
Fibre Optic Receiver (4 screen destinations / Peripherals - Audio)	<ul style="list-style-type: none"> <li>The video switching system has been tested and approved to operate in this environment. The Thinklogical system has undergone the Security Assessment and Authorization (SA&amp;A) process and obtained Authorizations to Operate (ATO).</li> </ul>	13	<ul style="list-style-type: none"> <li><b>Product cannot be substituted</b> <ul style="list-style-type: none"> <li>Make: Thinklogical</li> <li>Models:</li> <li><del>VQM-HAP001-LCRX</del></li> <li><b>VQM-HA0006-LCRX</b></li> </ul> </li> </ul>
Fibre Optic Receiver (4 screen destinations – video audio)	<ul style="list-style-type: none"> <li>The video switching system has been tested and approved to operate in this environment. The Thinklogical system has undergone the Security Assessment and Authorization (SA&amp;A) process and obtained Authorizations to Operate (ATO).</li> </ul>	26	<ul style="list-style-type: none"> <li><b>Product cannot be substituted</b> <ul style="list-style-type: none"> <li>Make: Thinklogical</li> <li>Model:</li> <li>VQM-AHV003-LCRX</li> </ul> </li> </ul>

Item	Criteria	Quantity	Notes
Fibre Optic Receiver (4 screen destinations – Chassis)	<ul style="list-style-type: none"> <li>The video switching system has been tested and approved to operate in this environment. The Thinklogical system has undergone the Security Assessment and Authorization (SA&amp;A) process and obtained Authorizations to Operate (ATO).</li> </ul>	13	<ul style="list-style-type: none"> <li><b>Product cannot be substituted</b> <ul style="list-style-type: none"> <li>Make: Thinklogical</li> <li>Model:</li> <li>CHS-000004</li> </ul> </li> </ul>
Fibre Optic Audio Receiver (For floor speakers)	<ul style="list-style-type: none"> <li>The video switching system has been tested and approved to operate in this environment. The Thinklogical system has undergone the Security Assessment and Authorization (SA&amp;A) process and obtained Authorizations to Operate (ATO).</li> </ul>	1	<ul style="list-style-type: none"> <li><b>Product cannot be substituted</b> <ul style="list-style-type: none"> <li>Make: Thinklogical</li> <li>Models:</li> <li>VQM-HA0006-LCTX</li> </ul> </li> </ul>
Fibre Optic Audio Receiver Chassis (For floor speakers)	<ul style="list-style-type: none"> <li>The video switching system has been tested and approved to operate in this environment. The Thinklogical system has undergone the Security Assessment and Authorization (SA&amp;A) process and obtained Authorizations to Operate (ATO).</li> </ul>	1	<ul style="list-style-type: none"> <li><b>Product cannot be substituted</b> <ul style="list-style-type: none"> <li>Make: Thinklogical</li> <li>Models:</li> <li>CHS-000001</li> </ul> </li> </ul>
Fibre Optic Receiver (6 screen destinations – video audio)	<ul style="list-style-type: none"> <li>The video switching system has been tested and approved to operate in this environment. The Thinklogical system has undergone the Security Assessment and Authorization (SA&amp;A) process and obtained Authorizations to Operate (ATO).</li> </ul>	3	<ul style="list-style-type: none"> <li><b>Product cannot be substituted</b> <ul style="list-style-type: none"> <li>Make: Thinklogical</li> <li>Model:</li> <li>VQM-AHV003-LCRX</li> </ul> </li> </ul>
Fibre Optic Receiver (6 screen destinations – Chassis)	<ul style="list-style-type: none"> <li>The video switching system has been tested and approved to operate in this environment. The Thinklogical system has undergone the Security Assessment and Authorization (SA&amp;A) process and obtained Authorizations to Operate (ATO).</li> </ul>	1	<ul style="list-style-type: none"> <li><b>Product cannot be substituted</b> <ul style="list-style-type: none"> <li>Make: Thinklogical</li> <li>Model:</li> <li>CHS-000004</li> </ul> </li> </ul>

Item	Criteria	Quantity	Notes
Fibre Optic Receiver (6 screen destinations / Peripherals - Audio)	<ul style="list-style-type: none"> <li>The video switching system has been tested and approved to operate in this environment. The Thinklogical system has undergone the Security Assessment and Authorization (SA&amp;A) process and obtained Authorizations to Operate (ATO).</li> </ul>	1	<ul style="list-style-type: none"> <li><b>Product cannot be substituted</b> <ul style="list-style-type: none"> <li>Make: Thinklogical</li> <li>Models: <ul style="list-style-type: none"> <li>VQM-HA0006-LCRX</li> </ul> </li> </ul> </li> </ul>
Fibre Optic HDCP Receiver (HD Wall Displays)	<ul style="list-style-type: none"> <li>The video switching system has been tested and approved to operate in this environment. The Thinklogical system has undergone the Security Assessment and Authorization (SA&amp;A) process and obtained Authorizations to Operate (ATO).</li> </ul>	6	<ul style="list-style-type: none"> <li><b>Product cannot be substituted</b> <ul style="list-style-type: none"> <li>Make: Thinklogical</li> <li>Model: <ul style="list-style-type: none"> <li>VEL-0H0003-LCRX</li> </ul> </li> </ul> </li> </ul>
70-inch HD Display (Main Monitor Wall)	<ul style="list-style-type: none"> <li>Not applicable</li> </ul>	4	<ul style="list-style-type: none"> <li><b>CANADA Supplied Equipment:</b> <ul style="list-style-type: none"> <li>Make: Sharp</li> <li>Model: PN-LE703</li> </ul> </li> </ul>
55-inch HD Display (Side Wall Display)	<ul style="list-style-type: none"> <li>Not applicable</li> </ul>	2	<ul style="list-style-type: none"> <li><b>CANADA Supplied Equipment:</b> <ul style="list-style-type: none"> <li>Make: Sharp</li> <li>Model: PN-Y556</li> </ul> </li> </ul>
HD Scaler (for Main Video Wall and Side Wall Displays)	<ul style="list-style-type: none"> <li>Accepts HDMI video up to 1080p/60</li> <li>Selectable Output rate</li> <li>HDCP Compliant</li> <li>EDID management</li> <li>HDMI Connector Type A</li> <li>RGB format and YCbCr digital video</li> <li>OSD (front panel control)</li> <li>Power Input 100-240 VAC / Output 12 VDC, 1A, 12 watts</li> <li>Easily mountable behind display frame</li> <li>Low thermal dissipation (-+ 35 BTU/hr)</li> </ul>	6	<ul style="list-style-type: none"> <li><b>Recommended make and model:</b> <ul style="list-style-type: none"> <li>Extron</li> <li>DSC HD-HD</li> </ul> </li> <li>If alternate product proposed, please provide manufacturer's specification sheet</li> </ul>

Item	Criteria	Quantity	Notes
Touch Panel	<ul style="list-style-type: none"> <li>Compatible with Control Processor located in EQT_1</li> <li>15.6-inch touch Screen</li> <li>Table top</li> <li>Powered Via PoE or 24VDC</li> <li>Resolution 1920 x 1080 pixels</li> <li>Brightness 400 nits (cd/m<sup>2</sup>)</li> <li>Response Time 30ms</li> <li>Color Depth 24-bit, 16,7M</li> <li>LED illumination</li> <li>On-screen keyboard</li> <li>Ethernet Communication 10/100mbps auto-switching /Full-Half-Duplex</li> <li>Supports USB HID</li> <li>Power consumption 25 Watts</li> <li>Temperature : Operate between (0° to 45° C)</li> <li>Mounting with 23° to 45° adjustable tilt</li> <li>Weight: 10.1lb</li> </ul>	5	<ul style="list-style-type: none"> <li><b>Recommended make and model:</b> <ul style="list-style-type: none"> <li>Crestron</li> <li>TS-1542-TILT</li> </ul> </li> <li>If alternate product proposed, please provide manufacturer's specification sheet</li> </ul>
Ceiling Speaker	<ul style="list-style-type: none"> <li>Frequency range 75Hz - 20kHz</li> <li>Power Capacity 150 W Cont. Program / 75 W Pink Noise</li> <li>Nominal Coverage Angle 110°</li> <li>Directivity Index 4.6 dB</li> <li>Max SPL 106dB @1m (3.3ft)</li> <li>High Frequency 19mm</li> <li>Dimensions 210 mm X 252 mm</li> <li>Weight 9.7kg (21 lbs)</li> </ul>	4	<ul style="list-style-type: none"> <li><b>Recommended make and model:</b> <ul style="list-style-type: none"> <li>JBL</li> <li>Control 26CT</li> </ul> </li> <li>If alternate product proposed, please provide manufacturer's specification sheet</li> </ul>
Front Wall Speaker with Mounting kit	<ul style="list-style-type: none"> <li>Frequency range 65Hz – 19.2kHz</li> <li>Crossover Frequency 2.7 kHz</li> <li>Power Capacity 120 W Cont.</li> <li>Nominal Coverage Angle 115° Horizontal / 55° Vertical</li> <li>Program / 60 W Pink Noise</li> <li>Nominal impedance 8 ohms</li> <li>Weight 4.4kg (9.7 lbs)</li> </ul>	2	<ul style="list-style-type: none"> <li><b>Recommended make and model:</b> <ul style="list-style-type: none"> <li>Extron</li> <li>SM 26 (speaker)</li> <li>SMK P SM 26/28 (mounting kit)</li> </ul> </li> <li>If alternate product proposed, please provide manufacturer's specification sheet</li> </ul>
Ceiling Mount Kit (Compatible with Main Monitor Wall Displays – Watch Floor area)	<ul style="list-style-type: none"> <li>Not applicable</li> </ul>	4	<ul style="list-style-type: none"> <li><b>CANADA supplied Equipment:</b> <ul style="list-style-type: none"> <li>Make: Chief</li> <li>Model: MCM1U</li> </ul> </li> </ul>

Item	Criteria	Quantity	Notes
Mount (Compatible with Side Wall Displays – Watch Floor area)	<ul style="list-style-type: none"> <li>Not applicable</li> </ul>	2	<ul style="list-style-type: none"> <li><b>CANADA supplied Equipment:</b> <ul style="list-style-type: none"> <li>Make: Chief</li> <li>Model: MTM1U</li> </ul> </li> </ul>
Digital Display Clock	<ul style="list-style-type: none"> <li>Digital / up to 15 characters (alphanumeric) in red, green, yellow and blue color display</li> <li>Display: 4-digit, 7-segment LED</li> <li>Character Height:: 2.5" HR/MIN</li> <li>Character Height:: 1.2" location characters</li> <li>Accurate to one second per year</li> <li>Weight: not to exceed 15.8 lbs</li> </ul>	1	<ul style="list-style-type: none"> <li><b>Recommended make and model:</b> <ul style="list-style-type: none"> <li>Digital Display Systems</li> <li>BTZ-42425-6ERG</li> </ul> </li> <li>If alternate product proposed, please provide manufacturer's specification sheet</li> </ul>
Stereo Headphone (At Operation Desks)	<ul style="list-style-type: none"> <li>Lightweight</li> <li>Wired</li> <li>Impedance: 26 Ohms</li> <li>Frequency response: 18 – 18000 Hz</li> <li>Cable: min of 1.4m (symmetrical cable)</li> </ul>	24	<ul style="list-style-type: none"> <li><b>Recommended make and model:</b> <ul style="list-style-type: none"> <li>Sennheiser</li> <li>HD 2.10</li> </ul> </li> <li>If alternate product proposed, please provide manufacturer's specification sheet</li> </ul>

Solicitation No. - N° de l'invitation  
W8474-197662/A  
Client Ref. No. - N° de réf. du client  
W8474-197662

Amd. No. - N° de la modif.  
004  
File No. - N° du dossier  
hn331.W8474-197662

Buyer ID - Id de l'acheteur  
hn331  
CCC No./N° CCC - FMS No./N° VME

---

## **APPENDIX G TO ANNEX B – STATEMENT OF WORK**

### **Price Sheet**

### **AMENDMENT**

**July 2018**

Solicitation No. - N° de l'invitation  
W8474-197662/A  
Client Ref. No. - N° de réf. du client  
W8474-197662

Amd. No. - N° de la modif.  
004  
File No. - N° du dossier  
hn331.W8474-197662

Buyer ID - Id de l'acheteur  
hn331  
CCC No./N° CCC - FMS No./N° VME

---

*This page intentionally left blank*

Solicitation No. - N° de l'invitation  
W8474-197662/A  
Client Ref. No. - N° de réf. du client  
W8474-197662

Amd. No. - N° de la modif.  
004  
File No. - N° du dossier  
hn331.W8474-197662

Buyer ID - Id de l'acheteur  
hn331  
CCC No./N° CCC - FMS No./N° VME

Item	Make	Description	Qty	Price
1	Thinklogical	• VTM-U00024-LCTX	77	
2	Thinklogical	• VTS-004200	39	
3	Thinklogical	• VQM-AH0003-LCTX	7	
4	Thinklogical	• CHS-00001	2	
5	Thinklogical	• CHS-000004	17	
6	Thinklogical	• TLX-MSC-000320	1	
7	Thinklogical	• TLX-MSM-C00320	1	
8	Thinklogical	• VXM-D00T16 REV A	16	
9	Thinklogical	• SMP-M0000320	1	
10	Thinklogical	• SMP-C00001	3	
11	Thinklogical	• <del>VQM-HAP001-LCRX</del> • VQM-HA0006-LCRX	15	
12	Thinklogical	• VQM-AHV003-LCRX	29	
13	Thinklogical	• VEL-0H0003-LCRX	6	
14	Crestron	• PRO3	1	
15	Crestron	• DIN-AP3	1	
16	Crestron	• TS-1542-TILT	5	
17	Luxcom	• OM101-MM-ST	2	
18	Luxcom	• MP05	1	
19	Luxul	• AMS-1208P	1	
20	Extron	• XPA-2003C	1	
21	Extron	• DMP 44 LC	1	
22	Extron	• SMD-101	1	
23	Extron	• DSC HD-HD	6	
24	Extron	• SM 26	2	
25	Extron	• SMK P SM 26/28	2	
26	Middle Atlantic	• UPS S-1500R	2	
27	JBL	• Control 26CT	4	
28	Digital Display Systems	• BTZ-42425-6ERG	1	
29	Sennheiser	• HD 2.10	24	
30	N/A	Drawings, Installation, testing, training & all other deliverables	lot	

Solicitation No. - N° de l'invitation  
W8474-197662/A  
Client Ref. No. - N° de réf. du client  
W8474-197662

Amd. No. - N° de la modif.  
004  
File No. - N° du dossier  
hn331.W8474-197662

Buyer ID - Id de l'acheteur  
hn331  
CCC No./N° CCC - FMS No./N° VME

Item	Make	Description	Qty	Price
31	N/A	Option year 1, one year optional extended warranty, to start after the initial one year warranty period expires (as per warranty clauses 21 and 22 in Annex B, reference clause 23)	<i>ea year</i>	
32	N/A	Option year 2, one year optional extended warranty, to start after the first one year option warranty period expires (as per warranty clauses 21 and 22 in Annex B, reference clause 23)	<i>ea year</i>	
33	N/A	Option year 3, one year optional extended warranty, to start after the second one year option warranty period expires (as per warranty clauses 21 and 22 in Annex B, reference clause 23)	<i>ea year</i>	
34	N/A	Option to extend the manufacturer's warranty of equipment, items 1 to 29 in the Appendix G price list, to three years after the first year standard warranty (reference clause 24, note c in Annex B)	<i>One lot price</i>	

**ALL OTHER TERMS AND CONDITIONS REMAIN UNCHANGED.**