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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**  
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V6Z 0B9

<b>Title - Sujet</b> ATP Integration Facility	
<b>Solicitation No. - N° de l'invitation</b> EZ899-192962/A	<b>Amendment No. - N° modif.</b> 009
<b>Client Reference No. - N° de référence du client</b>	<b>Date</b> 2019-05-24
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$PWY-022-8592	
<b>File No. - N° de dossier</b> PWY-8-41284 (022)	<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 2019-05-31</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> pwy022
<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> NRC - Herzberg Astronomy & Astrophysics ATP Integration Facility - Victoria, BC	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

<b>Delivery Required - Livraison exigée</b>	<b>Delivery Offered - Livraison proposée</b>
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<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  
EZ899-192962/A

Amd. No. - N° de la modif.  
009

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 009 is raised to issue Addendum 006.

Please see Addendum 006 herein.

All other terms and conditions remain unchanged.

THE FOLLOWING ADDENDUM SUPERCEDES 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.

## **1. SPECIFICATION**

### **1. Specification Section 09 91 23 Interior Painting**

Add: 2.5.8      Glulam beams, glulam columns and exposed face of CLT panels.  
INT 6.1W      Polyurethane, clear, 2 component finish.

## **2. QUESTIONS AND ANSWERS**

Q1. the propane gas appears to be at 2 PSI pressure delivered to the building and the 4 gas appliances at 200 foot EL this pressure can deliver 5, 870,000 BTU

3 – AHU at 31.3 Kw or 106,844 BTU

1 – Domestic hot water heater at

Please confirm the gas pressure and line size entering the building and for the AHUs.

**A1. Refer to plumbing drawing for incoming propane line size and propane pipe gas distribution size. Design is based of 2 psi incoming pressure.**

Q2. The plan indicates the gas piping entering under the slab (grid A & 3) and rising through the slab inside the building. This is in contradiction to the CSA Code B149.(6.15.7) can a detail be issued?

**A2. Propane piping to daylight before entering building.**

Q3. There are three locations on drawing SM0-4 that indicate flat venting. This is not permissible with the BCBC, are we to allow to flat vent the sanitary sewer piping?

**A3. Modify sanitary and vent piping as required to allow for proper venting (i.e re-direct sanitary lines to run underneath adjacent wall for venting).**

Q4. The exterior RWL are indicated on mechanical drawing SM06. 5 RWL are indicated along Grid D and 3 along Grid A. Architectural drawing SA10 indicate the same however the 5 RWL along Grid D show connecting together above grade and entering the underground services with one pipe. Is this correct? The mechanical drawing SM04 indicates all connections are underground.

**A4. Architectural drawing is to be followed.**

Q5. For the piping and ductwork that is located around the perimeter of the building, what provisions are provided by structural drawing to support the duct and pipe? We cannot find any detail with a bracket. It is best that the structural design indicates this support and is installed by the steel erection company.

**A5. Supports to be provided by Arch/Struct. Refer to architectural plan/section detail 9/A-18 and 9A/A-18. The associated structural detail (Typical Structural Steel Support Detail for Cable Tray) is on S103. This detail can also be used for supporting ducts and pipes.**

Q6. The Domestic hot water recirculation pump delivers 0.1 liters per second (1.50 GPM) the size of the Domestic hot water recirculation piping is 40mm. To keep the velocity current with the BCBC could we not use 20mm pipe for the domestic hot water recirculation piping?

**A6. Safety is built into the 40mm DHWR line and also for lower hot water recirculation water velocity to minimize pipe erosion.**

Q7. Drawing SA02 Floor type schedule F1 calls for a waterproof membrane, this differs from drawing WA02. Is the waterproof membrane not required for the wood option package? Please confirm.

**A7. Waterproofing is not required for both options. Delete waterproof membrane from F1 in SA02.**

Q8. Heat Tracing Section 22 05 33

Is there any piping that requires heat tracing to prevent freezing. There is no indication on the drawings that any piping requires heat trace, please confirm Item 1.2.3 indicates a heat maintenance system, with a piped domestic hot water recirculation system, is a the maintenance system be required? Please confirm.

**A8. Heat tracing section 22 05 33 is not required. Please disregard heat tracing specification section.**

Q9. Heat maintenance system Section 23 05 33

There are no notes on the drawings indicated where the heat trace is required.

**A9. Heat tracing is not required.**

Q10. Expansion fittings & loops for HVAC piping Section 23 05 16

Item 1.5 indicates we need to retain the services of a qualified professional engineer to design the piping expansion system. The current design is a Ventilation system with Makeup gas heat units, there is no hydronic piping. Please explain what is required?

**A10. Not required. No hydronic piping in the project scope of work.**

Q11. Drawing M07 & SM07 shows the perimeter footing drain for the Site Services Building, there is no mention of any work associated with the perimeter drain in the scope, please confirm that the drain is only shown for clarity and is not intended to be part of the scope of work.

**A11. The footing drain is shown because the intent is to install a new footing for the site services building.**

Q12. Please provide a specification for the Water Proof Membrane under the SOG and Raft Slab.

**A12. No waterproofing membrane is needed under SOG and Raft Slab.**

Q13. I did not see any sealers, stains, or paints specified for the CLT panels, there is also no mention of finishes of the CLT panels in the drawings. please clarify if the CLT panels are to be sealed or have a finish on them.

**A13. Refer to added painting specification in this addendum.**

Q14. Drawing WS403 "CLT Wall Panel Base Connection Detail" shows a 6mm THK Bent PL, this detail does not indicate the length or width of these plates. Can you please clarify what the dimensions of these plates are to be?

**A14. Size of the 6mm plates would be 180Hx90Wx210L min for WP1 and WP2, and 255Hx90Wx210L min for WP3. According to the note provided on WS403, all interface connection along the joints and its connections to structural members are to be designed, supplied and installed by CLT supplier. The connection shown on Sections and details is a minimum requirement. The final size of the 6mm plates is to be confirmed by the CLT supplier.**

**Q15. 1.2 SCOPE**

.1 Supply and installation of a data/communication cabling system, complete with complete with provision and placing of cables. Termination and testing of communication cables will be by Shared Services Canada representative/contractor. Coordinate installation of all cabling with proposed schedule for building occupancy and presence on site by Shared Services Canada representative/contractor. Are we to exclude all data and communications cabling as this is to be done by a Shared services Canada representative/ contractor? If we need to coordinate who do we coordinate with?

**A15. Contractor to supply and install all cabling and other items as noted in the bid document. The termination of the cabling will be done by the SSC contractor. SSC contractor will be hired by owner. General Contractor to coordinate with the SSC contractor for termination work within the contract period.**

**Q16.** SS301 Suggests that the overhead door frame is to be supplied by O/H Door Supplier. The O/HD suppliers will not supply this. Should this be a requirement for the structural steel? Additionally, WS301 does not identify who is supplying the frame for the O/H Door.

**A16. Contractor to provide Galvanized C-250 Steel Channel to form the overhead door door frame secured to adjoining structural steel. O/H door frame is not by overhead door supplier. (note that this clarification supercede the Question & Answer 4 in addendum #4.)**

END OF ADDENDUM NO. 6