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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

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

Consultant Services Division/Division des services  
d'experts-conseils  
L'Esplanade Laurier  
4th floor, East Tower  
140 O'Connor Street  
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Ontario  
K1A 0S5

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|--|---|
| <b>Title - Sujet</b><br>ON Reg. Architect and Eng. Services  |   |
| <b>Solicitation No. - N° de l'invitation</b><br>EN740-200671/B   | <b>Amendment No. - N° modif.</b><br>005     |
| <b>Client Reference No. - N° de référence du client</b><br>EN740-20200671  | <b>Date</b><br>2019-09-30                   |
| <b>GETS Reference No. - N° de référence de SEAG</b><br>PW-\$\$FE-178-77614   |   |
| <b>File No. - N° de dossier</b><br>fe178.EN740-200671  | <b>CCC No./N° CCC - FMS No./N° VME</b>      |
| <b>Solicitation Closes - L'invitation prend fin</b><br><b>at - à 02:00 PM</b><br><b>on - le 2019-10-22</b>   |   |
| <b>Time Zone</b><br><b>Fuseau horaire</b><br>Eastern Daylight Saving<br>Time EDT   |   |
| <b>F.O.B. - F.A.B.</b><br><b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/> |   |
| <b>Address Enquiries to: - Adresser toutes questions à:</b><br>Matende, Robinah  | <b>Buyer Id - Id de l'acheteur</b><br>fe178 |
| <b>Telephone No. - N° de téléphone</b><br>(613) 296-7948 ( )   | <b>FAX No. - N° de FAX</b><br>( ) -         |
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| <b>Vendor/Firm Name and Address</b><br><b>Raison sociale et adresse du fournisseur/de l'entrepreneur</b>   |  |
| <b>Telephone No. - N° de téléphone</b><br><b>Facsimile No. - N° de télécopieur</b>   |  |
| <b>Name and title of person authorized to sign on behalf of Vendor/Firm</b><br><b>(type or print)</b><br><b>Nom et titre de la personne autorisée à signer au nom du fournisseur/</b><br><b>de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b> |  |
| <b>Signature</b>   | <b>Date</b>                                  |

Solicitation No. - N° de l'invitation  
EN740-200671/B

Amd. No. - N° de la modif.  
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Buyer ID - Id de l'acheteur  
Fe178

Client Ref. No. - N° de réf. du client  
200671

File No. - N° du dossier  
Fe178EN740-200671/B

Project No. - N° du projet

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AMENDMENT 005 IS ISSUED FOR THE FOLLOWING:

## **ADDENDUM 01**

**The following changes in the bid documents are effective immediately.**

- 1. The Terms of Reference section 2.2 is deleted and replaced with the following, changes are highlighted in yellow:**

### **Mississauga Science Facility**

The Mississauga Science Facility of LC within the TerraCanada Science Cluster is intended to accelerate discovery and development of clean energy materials to be achieved through high performance computing supporting artificial intelligence-driven and robotic platforms. The MAP program directly supports the "innovations for a low carbon economy" theme of TerraCanada.

The National Research Council's Advanced Materials Manufacturing Centre is currently under construction in Mississauga. NRC's two-storey, approximately 4,400 m<sup>2</sup> laboratory and office building will support their Security and Disruptive Technologies program. The first-floor **laboratory and office space is being constructed for occupancy by March 2020, with occupancy of the laboratory space by September 2020.** The second floor is being constructed as a shell space to accommodate future requirements. The current sustainability goal for the building is 3 Green Globes. Space for mechanical and electrical requirements for the second floor has been allowed in the penthouse.

With the addition of MAP to the building program, this Science Facility will accommodate a new Science Partner, Natural Resources Canada. An expanded facility will include a combination of laboratories, lab support spaces, offices, and service areas for use by NRC and NRCan, and possibly other future Science Partners to be a focal point for development of high-performance advanced materials manufacturing. The proximity of this Science Facility and the Xerox Research Center of Canada will enable collaboration in a one-stop design and production of new advanced materials in sufficient quantity for pilot-scale industrial evaluation, process refinement, and in some cases, low-volume commercialization.

Additional space is required to accommodate MAP, which is dependent on NRC's and NRCan's final programmatic requirements. **In order to minimize disruption to NRC's employees next spring, the current design consultant (Diamond and Schmidt) is undertaking structural design reinforcement to accommodate NRC's long-term accommodation requirement for new 4<sup>th</sup> floor expansion. Diamond and Schmidt will oversee the implementation of the structural reinforcement work by PWGSC's new CM immediately after award of the new CM contract. Accordingly, Construction Cost Estimate for this sub-Project will not include the Cost of this structural reinforcement work, nor will the Design Team be responsible for any aspect of the reinforcement work. That said, the Design Team is required to review and understand the scope and intent of the reinforcement design and resulting construction. The Design Team is required to consider the said design and construction in the operational and design requirements for this sub-Project.**

Solicitation No. - N° de l'invitation  
EN740-200671/B

Amd. No. - N° de la modif.  
005

Buyer ID - Id de l'acheteur  
Fe178

Client Ref. No. - N° de réf. du client  
200671

File No. - N° du dossier  
Fe178EN740-200671/B

Project No. - N° du projet

Immediately after award of the Consultant's Contract, the Design Team is required to advance the design of convenience stairs and elevators, for implementation by the CM. Completion of this part of the Sub-Project work is required by September 2020, to minimize disruption to NCR's employees.

It is uncertain if the NRC will occupy the building before the work of this sub-Project is underway. Therefore, the extent and orientation of building expansion and construction implementation strategy requires detailed analysis and NRC's and NRCan's advance approval.



Figure 2: Proposed design concept for NCRs Advanced Materials Manufacturing Centre, Mississauga.

**2. The following text is removed from section 4.7.1 of the Project Brief:**

The Mississauga Science Facility requirements are still in development and will be clarified once Science Partners and the LC executive have approved the program scope.

**The following text is added to section 4.7.1 of the Project Brief:**

The final area and number off floors of the building will be determined during functional programming. The building program for the Mississauga Science Facility includes:

- a) General Building:
  - i. New freight and passenger elevator;
  - ii. New stand-pipe system;
  - iii. Isolation of occupied first floor office areas;
  - iv. Reconfigure, extend, and install new base building systems to accommodate expansion;
  - v. New chiller and cooling tower serving second and third floors;
  - vi. Metering, sub-metering to track energy use per laboratory space and the overall building; and

Solicitation No. - N° de l'invitation  
EN740-200671/B

Amd. No. - N° de la modif.  
005

Buyer ID - Id de l'acheteur  
Fe178

Client Ref. No. - N° de réf. du client  
200671

File No. - N° du dossier  
Fe178EN740-200671/B

Project No. - N° du projet

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vii. Sustainable design to approach Zero Net Energy and make carbon neutral ready for building operations;

b) Level 01:

- i. Install convenience stair to second floor; and
- ii. Reconfigure portion of first floor, including fit-up of a class 1000 clean-room;

c) Level 02:

- i. Remove temporary building systems supporting shelled space;
- ii. Fit-up interior of floor area as per functional program; and
- iii. Install convenience stair to third floor;

d) Level 03:

- i. Remove of existing roofing and exterior assemblies;
- ii. New third floor steel structure and new roof system;
- iii. New mechanical and electrical systems for third floor and
- iv. Fit-up of interior floor area as per functional program;

e) Level 04:

- i. New mechanical penthouse for third floor mechanical and electrical systems above current mechanical penthouse;
- ii. Install mechanical and electrical systems for third floor; and
- iii. Screen outdoor mechanical systems (cooling tower, etc.).
- iv. If required by functional programming, construction and fit-up of additional area.

**3. Within section 3.2.1 of the submission requirements and evaluation, item 3. a. i. is deleted. This item read:**

“is predominantly (>50% of the scope) an adaptive building re-use or re- purposing, with or without spatial expansion; and”