

**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 0A1 / Noyau 0A1**  
**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.

<b>Title - Sujet</b> Bulk Hydrogen supply and Auto cross	
<b>Solicitation No. - N° de l'invitation</b> 31184-132665/A	<b>Amendment No. - N° modif.</b> 002
<b>Client Reference No. - N° de référence du client</b> 31184-132665	<b>Date</b> 2013-11-13
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$\$HL-657-63614	
<b>File No. - N° de dossier</b> hl657.31184-132665	<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 2013-12-19</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> Turner, Louie	<b>Buyer Id - Id de l'acheteur</b> hl657
<b>Telephone No. - N° de téléphone</b> (819) 956-3975 ( )	<b>FAX No. - N° de FAX</b> (819) 956-5227
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b>	

**Comments - Commentaires**

**Vendor/Firm Name and Address**  
**Raison sociale et adresse du**  
**fournisseur/de l'entrepreneur**

**Instructions: See Herein**

**Instructions: Voir aux présentes**

**Issuing Office - Bureau de distribution**  
Fuel & Construction Products Division  
11 Laurier St./11, rue Laurier  
7A2, Place du Portage, Phase III  
Gatineau, Québec K1A 0S5

<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 amendment is issued to answer potential bidders questions.

## QUESTION AND ANSWERS

With reference to the call for tenders 31184-132665 / A

Question 1:

6.2: Limitation of Expenditure: Is there any financial commitment or limit liability?

Answer 1: The NRC has provided an estimated usage of Hydrogen over a 5 year period. There's no financial commitment or limitation of funds for the contract. The contract will be awarded to the vendor that meets all of the mandatory technical criteria along with the lowest financial bid. General Conditions 2010C, section 16 and 17 address the liability.

Question 2: Appendix B, sections 6.1 and 6.2: We reiterate that this is equipment belonging to the contractor and the use of the leased equipment is made only by the contractor. Does the Government of Canada recognize that the system is and will remain at all times the exclusive property of the contractor no matter how it's attached to the property of the client?

Answer 2: Yes. As the owner of such equipment it is also your responsibility to ensure the equipment that is supplied and installed is in safe operating mode at all times. NRC should be informed when maintenance takes place. Normal maintenance should at no time disrupt Fabrication activities. Interruptions must be scheduled with NRC.

Question 3: Would the Government of Canada be willing to consider the following points, particularly the obligations of each party - "Does not appear to be covered in the document": take all reasonable precautions to prevent its employees or others to modify, repair, alter or adjust the facility;

Answer 3: Modifications and repairs should be done by the owner of the equipment. NRC has an obligation to render the facility "safe" in an emergency situation.  
(Refer to Annex B, note 13 - Modifications to Leased Equipment)

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Question 4: Will NRC monitor the daily operation of the facility and notify the contractor of any damage or malfunction to the leased equipment and notify the contractor for any leaks?

Answer 4: NRC will be monitoring the facility by way of the PLC. Both parties should be monitoring usage to trend any issues. Damage and/or malfunction should be reported immediately upon discovery - by both parties.

Question 5: Will the contractor be the only person that's permitted in the designated location of the equipment and gas hook ups?

Answer 5: As with the LN2 facilities only the supplier and NRC should have access. Snow removal needs to be coordinated by NRC.

Question 6:

o The question is about liquid nitrogen deliveries for purges. "Section 4.1 and 4.3 in section 1 , point M" p.18 and Appendix C , there is no mention of prices for the supply of nitrogen and on-site storage if applicable;

Answer 6: LN2 is covered under a separate contract. Gaseous high purity Nitrogen is supplied to the Hydrogen Pad by NRC via a "1/2" high purity 316L SS line.

Question 7: Section 4) , p.20 : "The cost of H2 associated with the failure of equipment installed by the selected vendor must be paid by the supplier ." Are we talking about the same person or subcontractor?

Answer 7: The Hydrogen vendor and the supplier of the auto crossover system (H2 hardware on the Pad) are by the same person. In the unlikely event that the hardware fails, the gas supplier (as owner of the hardware) bares the costs of lost Hydrogen. A couple of questions seem to be related to differentiating hardware and hydrogen. NRC's position is that we consider this the same entity.

Question 8: In section 2.3, it is asked to do a nitrogen purge. What is the significance? - In other words why would the purge of hydrogen not be sufficient? - There is no change in service here.

Answer 8: It is NRC's contention and desire that all hydrogen lines, to be removed, be cycle purged out with Nitrogen to a vent stack prior to removal or disconnecting for safety reasons. When connecting to new H2 source, cycle purging with H2 to the vent stack is required for purity reasons to ensure the purity grade of Hydrogen is not compromised before putting new Hydrogen source into service.

Question 9: If a nitrogen purge is done, why should design the system automatically and not manually?

Answer 9: NRC makes no comment on automatic vs. manual cycle purge features. If the gas supplier wishes to incorporate automated cycle purging capabilities into the hardware they provide NRC welcomes this feature.

Alternatively - if manual cycle purging is incorporated the H2 supplier is REQUIRED to ensure all drivers delivering H2 to this facility are properly trained on the cycle purging requirement of this installation AND that they follow all established and agreed to procedures.

Question 10: Is a pressure of 100 to 110 psig nitrogen will be provided on the pad for bleeding? (bleeding if there is)

Answer 10: Supplied N2 pressure at H2 pad is nominally 100psi (from the LN2 installation). Vendor is responsible for regulating N2 pressure down to what they wish it to be.

**Note:** All start and end dates may be delayed up to approximately 3 to 6 months.

All other terms and conditions remain the same.