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B3J 1T3  
Bid Fax: (902) 496-5016

**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**  
Atlantic Region Acquisitions/Région de l'Atlantique  
Acquisitions  
1713 Bedford Row  
Halifax, N.S./Halifax, (N.É.)  
Halifax  
Nova Scot  
B3J 1T3

<b>Title - Sujet</b> Submarine Battery Chargers	
<b>Solicitation No. - N° de l'invitation</b> W355B-201768/A	<b>Amendment No. - N° modif.</b> 002
<b>Client Reference No. - N° de référence du client</b> W355B-20-1768	<b>Date</b> 2021-01-19
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$HAL-218-11153	
<b>File No. - N° de dossier</b> HAL-9-83254 (218)	<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> Atlantic Standard Time AST <b>on - le 2021-02-18</b> Heure Normale de l'Atlantique HNA	
<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> Conrad, Darren	<b>Buyer Id - Id de l'acheteur</b> hal218
<b>Telephone No. - N° de téléphone</b> (902) 403-8584 ( )	<b>FAX No. - N° de FAX</b> (902) 496-5016
<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>

Amendment 002 is raised to provide answers to questions.

#### Questions and Answers

##### Question #1:

###### Section 3 (Charger Input parameters)

A and B for charger #1 and #2 – a(iv) states 300A and b(iv) is 200A. These chargers are 2000kVA each (for 800Vdc 2500A application) and 200A @4160V is insufficient for this capacity. Should they not both be 300A?

##### Answer #1:

The input current for Charger #2 is revised to 300A.

##### Question #2:

###### Section 4 (Output Specs)

Annex C States Max. Charging voltage of 600Vdc. Is 800Vdc really required? Will 750Vdc be sufficient? This voltage makes a large difference to the capacity (and Size) of the system.

##### Answer #2:

The output voltage of Charger #1 and #2 is revised to Zero to 750Vdc.

##### Question #3:

###### Section 5 ( Front panel instrumentation)

- Multiple line items call for manual switches/potentiometer/trim pot adjustments. Will digital control (changing settings on front panel) be accepted?

##### Answer #3:

A fully digital control system is acceptable.

##### Question #4:

###### Section 7

d) 125% for 10 minutes? Must the unit supply  $2500A \times 1.25 = 3125A$  for 10 minutes (Is this maximum capacity required. It will increase the size for the 4160V transformer.

##### Answer #4:

The requirement for "125% for ten minutes" is removed from the statement of requirements.

##### Question #5:

###### Section 9 (Physical Specs)

How tight are these dimensions. The space specified is not even large enough for one 2MW Charger.

##### Answer #5:

The dimensions are revised as follows: The maximum available footprint for the equipment is located against a wall and has dimensions of 5500mm wide and 2285mm deep.

##### Question #6

###### Annex C: Battery Technical Data:

Battery charging schedule and requirements are within the Battery charger technical requirements, however battery discharging current of 6080 is outside the technical requirements of the Battery charger.

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Amd. No. - N° de la modif.  
002  
File No. - N° du dossier  
HAL-9-83254

Buyer ID - Id de l'acheteur  
HAL218  
CCC No./N° CCC - FMS No./N° VME

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The battery charger being coated under this solicitation is to act as a dis-charger as well? or you have a separate battery dis-charger?

Answer #6:

The battery chargers in this solicitation are not required to provide controlled discharging of the battery. Discharging of the battery is accomplished using dedicated resistive load banks owned by DND.

Question #7:

What about the charging and dis-charging rates of the smaller battery bank? Nothing is provided in the RFP.

Answer #7:

Charger #3 will be used on the same cells as are described in Appendix C of the solicitation. It is however only used to maintain single cells; hence the reduced output requirements.

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