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Bid Receiving Public Works and Government  
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1713 Bedford Row

Halifax, N.S./Halifax, (N.É.)

Halifax

Nova Scotia

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> Marine Fenders - CFB Halifax	
<b>Solicitation No. - N° de l'invitation</b> W010C-190176/A	<b>Amendment No. - N° modif.</b> 001
<b>Client Reference No. - N° de référence du client</b> W010C-19-0176	<b>Date</b> 2019-02-27
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$HAL-409-10653	
<b>File No. - N° de dossier</b> HAL-8-81237 (409)	<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 2019-03-07</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Atlantic Standard Time AST
<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> Taylor, Kathie	<b>Buyer Id - Id de l'acheteur</b> hal409
<b>Telephone No. - N° de téléphone</b> (902) 403-4837 ( )	<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>

### **Solicitation Amendment #01**

#### **I. The following questions have been posed by industry:**

- 1) 2.3.6.1 – calls for energy absorption : min 400 kNm 300ft-kips

**Q1.** Is it a rated energy or the min energy? As foam fender comes with -15% tolerance on energy, so if its min energy, does this mean Rated energy requirement is 400+15% i.e. 460kNm or its rated energy value 400kNm -15% tolerance i.e. 340kNm minimum?

**R1:** Stated requirement is the rated energy absorption at 60% deflection on the performance curve of Energy Absorption vs Percent Compression for the fender.

- 2) 2.3.6.2 – calls for Reaction force at 60% deflection : Min 800 kN and Max 955.

**Q2.** as per the fender industry norms, fender is specified with only Max limit on reaction but not the minimum. So if 955kN is max limit, does this mean Rated reaction is 955-15% i.e. 811kN?

**R2:** The maximum rated reaction force at 60% deflection is 955 kN (215 kips).

**Q3.** As RPD data requirement is not clear, we request to provide RPD value of E and R with 15% tolerance (i.e. -15% on energy and +15% on reaction)

**R3:** Answers have been provided to Q1 and Q2 to clarify the RPD requirement.

**Q.4.** please provide the product which has been used as reference to base the specs along with its RPD so that we can provide equivalent alternative.

**R4:** This is a performance based specification. As such, there are multiple fender manufacturers that will meet the specification. It is the bidder's responsibility to research and supply a fender that will meet the performance requirements of the specification

- 3) 2.3.6.3 – calls for performance at 60% rated deflection with Energy absorption of 300kNm plus 15%, (it should be -15%), with Reaction force of 712kN +15%.

**Q5.** the above contradicts with the performance specified in 2.3.6.1 and 2.3.6.2. Please confirm the correct performance requirement with RPD value.

**R5:** 2.3.6.3 to be written as follows: The resilient, foam filled marine fenders shall be designed so that when compressed across its diameter by two parallel flat plates extending the full length and width of the fender, the fender shall absorb 400,000 N-m (295,025 ft-lbs) of energy plus 15 % when 60 % compressed (i.e. to a dimension of 40 % of its original diameter) with a corresponding load of not more than 955,000 N (214,690 lbs) plus 15 %. The fender shall also be designed to withstand a sustained reaction force of 907,250 N (203,960 lbs) for a duration of not less than 24 hours each occurrence for at least 200 occurrences during its 10-year predicted life.

Solicitation No. - N° de l'invitation  
W010C-190176/A  
Client Ref. No. - N° de réf. du client  
W010C-19-0176

Amd. No. - N° de la modif.  
01  
File No. - N° du dossier

Buyer ID - Id de l'acheteur  
hal409  
CCC No./N° CCC - FMS No./N° VME

**Q6.** PIANC2002 calls for Type Approval Cert only for Rubber Fenders and not for the Floating Fenders. Also a Type Approval for Fender does not guarantee that a product produced will meet the project specific performance requirement, and hence our suggestion would be that department will be better served with a project specific testing and inspection carried by 3<sup>rd</sup> party agency such as ABS or GL/DNV or BV confirming that fender meets material and performance specs as per DND specification. Will you consider this as acceptable?

**R6:** PIANC2002 Type Examination Certificates are available for floating foam fenders. Manufacturer is not required to test the actual fenders to be supplied under this specification

## **II. For further clarification, Annex A, Part 2, has been revised as follows:**

At Para 2.3.6.2:

Delete: in its entirety

Insert: 2.3.6.2 Reaction force at 60% deflection: Maximum 955 KN (215 kips).

At Para 2.3.6.3:

Delete: in its entirety

Insert: 2.3.6.3 The resilient, foam filled marine fenders shall be designed so that when compressed across its diameter by two parallel flat plates extending the full length and width of the fender, the fender shall absorb 400,000 N-m (295,025 ft-lbs) of energy plus 15 % when 60 % compressed (i.e. to a dimension of 40 % of its original diameter) with a corresponding load of not more than 955,000 N (214,690 lbs) plus 15 %. The fender shall also be designed to withstand a sustained reaction force of 907,250 N (203,960 lbs) for a duration of not less than 24 hours each occurrence for at least 200 occurrences during its 10-year predicted life.

**All other terms and conditions remain unchanged.**