



**RETURN BIDS TO:**

**RETOURNER LES SOUMISSIONS À:**

**Bid Receiving Public Works and Government  
Services Canada/Réception des soumissions Travaux  
publics et Services gouvernementaux Canada**  
1713 Bedford Row  
Halifax, N.S./Halifax, (N.É.)  
B3J 1T3  
Nova Scotia  
Bid Fax: (902) 496-5016

**Revision to a Request for a Standing Offer**

**Révision à une demande d'offre à commandes**

National Master Standing Offer (NMSO)

Offre à commandes principale et nationale (OCPN)

The referenced document is hereby revised; unless otherwise indicated, all other terms and conditions of the Offer remain the same.

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'offre 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.)  
B3J 3C9  
Nova Scot

<b>Title - Sujet</b> NMSO - Plastic Buoys	
<b>Solicitation No. - N° de l'invitation</b> E6HAL-170009/A	<b>Date</b> 2018-02-19
<b>Client Reference No. - N° de référence du client</b> E6HAL-17-0009	<b>Amendment No. - N° modif.</b> 003
<b>File No. - N° de dossier</b> HAL-7-79203 (309)	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$HAL-309-10322	
<b>Date of Original Request for Standing Offer</b> Date de la demande de l'offre à commandes originale 2018-01-16	
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2018-03-06</b>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> MacNeil, Blaine A.	<b>Buyer Id - Id de l'acheteur</b> hal309
<b>Telephone No. - N° de téléphone</b> (902) 496-5180 ( )	<b>FAX No. - N° de FAX</b> (902) 496-5016
<b>Delivery Required - Livraison exigée</b>	
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b>	
<b>Security - Sécurité</b> This revision does not change the security requirements of the Offer. Cette révision ne change pas les besoins en matière de sécurité de la présente offre.	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

<b>Acknowledgement copy required</b>	<b>Yes - Oui</b>	<b>No - Non</b>
<b>Accusé de réception requis</b>	<input type="checkbox"/>	<input type="checkbox"/>
<b>The Offeror hereby acknowledges this revision to its Offer.</b> <b>Le proposant constate, par la présente, cette révision à son offre.</b>		
<b>Signature</b>	<b>Date</b>	
Name and title of person authorized to sign on behalf of offeror. (type or print) Nom et titre de la personne autorisée à signer au nom du proposant. (taper ou écrire en caractères d'imprimerie)		
<b>For the Minister - Pour le Ministre</b>		

### Amendment #3

Note the following Q&A's and the resulting changes to the requirement where applicable.

#### Question 1

##### 2.3.1 Materials

###### 2.3.1.1 Material Certifications

There is no reference or requirement to confirm that a "compounding process" has been used to prepare the rotational molding resin, even though this important process has been used in the manufacture of Canadian Coast Guard buoys for almost ten years and was specified as a requirement in older Performance Specification documents.

As there is no stated requirement for the use of the "compounding process"; the "Dry Blending Process" for resin preparation could be used to meet the current material requirements in the Performance Specification for UV stabilizers and Colour Chromaticity while also meeting the Colour Fastness test at 1,000 hours. However, the resulting buoys would have a 40% decrease in strength and impact resistance.

Could you please confirm that Canadian Coast Guard still requires the use of the "Compounding Process in resin preparation to achieve the required Colour Chromaticity of the plastic"

**Ans: The current material requirements for UV Stabilizers, color chromaticity, color fastness and abrasion resistance remain unchanged. It is our opinion that 'compounding process' in resin preparation is required to achieve the specified material requirements.**

#### Question 2

##### 2.3.1 Materials

###### 2.3.6.2 Colour Pigments

This paragraph explains the CIE 1931 chart in Figure 2-1 with respect to IALA Recommendation 108-E. However this is no requirement that specifies that buoy colours must meet the requirements of IALA-108 E.

Could you please confirm that Canadian Coast Guard requires the Buoy Colours to meet the requirements of IALA-108 E with the Chromaticity Values falling within the defined zones in the CIE 1931 chart.

**Ans: The buoys are required to meet the requirements of IALA-108 E with the chromaticity values falling within the defined zones in the CIE 1931 chart.**

#### Question 3

##### 2.3.1 Materials

###### 2.3.6.3 CCG Special Colour

This paragraph provides a target point on the CIE 1931 Chart with x, y, and Y co-ordinates.

The target co-ordinates differ from results of colour chromaticity measured with the required Komica Minolta CM2500C Color Photo Spectrometer with the required settings; of buoys provided to Canadian Coast Guard during the last five years.

Please see attached data. (x = 0.2723 & y = 0.3964)

Could you please provide the x and y co-ordinates that define the extended boundary to determine compliance for the CCG Special Colour - "Forest" Green.

**Ans: Regarding the CCG Special Color, the extended boundary formed by a 1% variance of the stated target point is acceptable.**

#### 2.3.3.1 Transference of Loads

The *Lifting Assembly* shall be known as:

- In one piece designs where the mooring eye is attached to an internal mechanism joining the mooring eye to the lifting eye.
- In modular design where the mooring eye is linked to the lifting eye via an external structural member.

#### **Question 4**

How does a removable internal mechanism that joins the mooring eye to the lifting eye (that runs through a one piece buoy) fall within this definition?

**Ans: A removable internal mechanism does not conflict with the conflict with the definition as specified.**

#### **Question 5**

Under 2.3.3.1 part (d) of Performance Specification.

"It shall be desirable to be able to access and inspect all lifting assemblies ...."

Under 2. Obligation of Performance Specification

- "Prefer: conveys a rated requirement "

As 2.3.3.1 part (d) states that a removable lifting assembly that permits inspection during the 15 year life of the buoy is desirable, as this appears to be Preferred, are there Rated Points for offering this feature ?

This question is asked because buoys with non-removable internal linkages that may fit the Pillar requirements are sold, these buoys obviously have a significant cost of production advantage but there is no way to inspect the Lifting Mechanism of this, the largest of the buoys.

1. Reference: Plastic Buoy Evaluation Matrix - Section 1.1, Evaluation Process

**Ans: There are no rated points for this feature.**

#### **Question 6**

Q : The testing facility listed (Folio Instruments) is not able to perform the required testing. Is there an alternative testing facility?

2. Reference: Plastic Buoys Performance Specifications - Section 2.3.6.2, Colour Pigments

**Ans: We have contacted the listed testing facility and they have confirmed that the equipment required to undertake the testing will be made available.**

### Question 7

Q : The Konica - Minolta CM2500C Color Photo Spectrometer which is required for testing is discontinued by the manufacturer and not available for purchase (according to Folio Instruments, the Canadian Distributor for Konica - Minolta). The X-Rite Exact Portable Spectrophotometer can measure using the same parameters that are specified in the Performance Specifications. Is this an acceptable alternative? If not, please provide an alternative that is readily available for purchase.

3. References:

- a) Plastic Buoys Performance Requirements, Section 2.1.15 - 2.8.15
- b) Plastic Buoy Evaluation Matrix, Items TR01, TR04, TR07, TR10, TR13

**Ans: We have contacted the listed testing facility and they have confirmed that the equipment required to undertake the testing will be made available.**

### Question 8

Q: It appears that the new maximum tilt angle of 3° (compared to 6° from the 2015 Plastic Buoys NMSO ) is an extremely tight requirement for all buoys with the exception of the pillar buoy. The design parameters of the spar buoys listed on the Plastic Buoy NMSO (2018) are the same parameters of the spar buoys that have been in use by the CCG for 20 years. There has not been any significant changes to the design parameters on the NMSO that would result in a decrease of the maximum tilt angle. In addition, there seems to be a difference in requirements between the Performance Specification maximum tilt angle of 3° (reference A) and the Evaluation Matrix tilt angle rated criteria of 10°-25° (reference B) for all buoys except the Large Marker and Pillar.

*Does compliance to a maximum 3° tilt angle at maximum operational current apply to all buoys (including the two spar type buoys) or just the Pillar buoy?*

4. Reference: Plastic Buoys Evaluation Matrix, Item TC27

**Ans: Compliance to the requirement applies to all buoys**

### Question 9

Q: What data is required for qualifying the Maximum Operational Buoy Tilt Angle? Does the CCG require computational fluid dynamics, calculations, or any other data?

5. Reference: Plastic Buoys Performance Requirements, Section 2.3.6.3

**Ans: A stability analysis will suffice at the Maximum Operational Buoy Tilt Angle.**

### Question 9b

Q: The 'CCG Special Colour' dark green does not have a specified colour region/zone however the other required colours do (regular green, red, yellow, white, black). Matching specific colour coordinates for the CCG Special Dark Green is a much more stringent requirement than the other colours which have defined regions/zones.

*Is there a colour region/zone to use for CCG Special Dark Green?*

Ans: Regarding the CCG Special Color, the extended boundary formed by a 1% variance of the stated target point is acceptable.

6. Reference: Plastic Buoys Performance Requirements, Section 2.3.6.3

**Question 10**

Q: In replacement of submitting samples to a testing facility for the CCG Special Green colour, are we able to provide data from our pigment supplier verifying that our Dark Green conforms to the RAL colour # 14066 that is listed for the CCG Special Green?

Ans: Data from the pigment supplier can be provided that must confirm that the pigment is #14066 as listed for the CCG Special Green.

Please note that the solicitation closing date has been extended until 06 March 2018.

All other terms and conditions remain unchanged.