

**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.)**

## Halifax

## Nova Scotia

**B3J 1T3**

**Bid Fax: (902) 496-5016**

## Request For a Standing Offer Demande d'offre à commandes

## National Master Standing Offer (NMSO)

## Offre à commandes principale et nationale (OCPN)

Canada, as represented by the Minister of Public Works and Government Services Canada, hereby requests a Standing Offer on behalf of the Identified Users herein.

Le Canada, représenté par le ministre des Travaux Publics et Services Gouvernementaux Canada, autorise par la présente, une offre à commandes au nom des utilisateurs identifiés énumérés ci-après.

## 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> RISO - Steel Buoy Fabrication	
<b>Solicitation No. - N° de l'invitation</b> F5502-190191/A	<b>Date</b> 2019-11-19
<b>Client Reference No. - N° de référence du client</b> F5502-19-0191	<b>GETS Ref. No. - N° de réf. de SEAG</b> PW-\$HAL-309-10821
<b>File No. - N° de dossier</b> HAL-9-83075 (309)	<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 2020-01-09</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Atlantic Standard Time AST
<b>Delivery Required - Livraison exigée</b> See Herein	
<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)403-3918 ( )	<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> DEPARTMENT OF FISHERIES AND OCEANS 50 DISCOVERY DR., LEVEL 4 DARTMOUTH NOVA SCOTIA B2Y3Z8 Canada	
<b>Security - Sécurité</b> This request for a Standing Offer does not include provisions for security. Cette Demande d'offre à commandes ne comprend pas des dispositions en matière de sécurité.	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

<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 (type or print)</b>	
<b>Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>	
<b>Signature</b>	<b>Date</b>

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## **PART 1 - GENERAL INFORMATION**

### **1.1 Introduction**

The Request for Standing Offers (RFSO) is divided into seven parts plus attachments and annexes, as follows:

- |        |   |
|--------|---|
| Part 1 | General Information: provides a general description of the requirement;   |
| Part 2 | Offeror Instructions: provides the instructions applicable to the clauses and conditions of the RFSO;   |
| Part 3 | Offer Preparation Instructions: provides Offerors with instructions on how to prepare their offer to address the evaluation criteria specified;   |
| Part 4 | Evaluation Procedures and Basis of Selection: indicates how the evaluation will be conducted, the evaluation criteria which must be addressed in the offer, and the basis of selection;   |
| Part 5 | Certifications: includes the certifications to be provided;   |
| Part 6 | Security, Financial and Insurance Requirements: includes specific requirements that must be addressed by Offerors; and  |
| Part 7 | 7A, Standing Offer, and 7B, Resulting Contract Clauses:<br><br>7A, includes the Standing Offer containing the offer from the Offeror and the applicable clauses and conditions;<br><br>7B, includes the clauses and conditions which will apply to any contract resulting from a call-up made pursuant to the Standing Offer. |

The Annexes include the Requirement, the Basis of Payment, Insurance Requirements, and any other annexes.

### **1.2 Summary**

The Department of Fisheries and Oceans – Canadian Coast Guard (CCG) has a requirement for the establishment of a regional individual standing offer (RISO) for the fabrication assembly, and delivery of steel buoys for marine navigational aid purposes to be delivered to CCG Base at 50 Discovery Drive, Dartmouth, Nova Scotia. The Statement of Work and Specifications are attached.

The period for making call-ups against the Standing Offer is from date of issue of the Standing Offer for a two year period with three twelve-month option periods.

The requirement is subject to the provisions of the World Trade Organization Agreement on Government Procurement (WTO-AGP), the North American Free Trade Agreement (NAFTA),

the Canada-European Union Comprehensive Economic and Trade Agreement (CETA), and the Canadian Free Trade Agreement (CFTA).

### 1.3 Debriefings

Offerors may request a debriefing on the results of the request for standing offers process. Offerors should make the request to the Standing Offer Authority within 15 working days of receipt of the results of the request for standing offers process. The debriefing may be in writing, by telephone or in person.

## PART 2 - OFFEROR INSTRUCTIONS

### 2.1 Standard Instructions, Clauses and Conditions

All instructions, clauses and conditions identified in the Request for Standing Offers (RFSO) by number, date and title are set out in the *Standard Acquisition Clauses and Conditions Manual* (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

Offerors who submit an offer agree to be bound by the instructions, clauses and conditions of the RFSO and accept the clauses and conditions of the Standing Offer and resulting contract(s).

The **2006 (2019-03-04)** Standard Instructions - Request for Standing Offers - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the RFSO.

Subsection 5.4 of **2006**, Standard Instructions - Request for Standing Offers - Goods or Services - Competitive Requirements, is amended as follows:

Delete: 60 days

**Insert: 90 days**

### 2.2 Submission of Offers

Offers must be submitted only to Public Works and Government Services Canada (PWGSC) Bid Receiving Unit by the date, time and place indicated on page 1 of the Request for Standing Offers.

### 2.3 Enquiries - Request for Standing Offers

All enquiries must be submitted in writing to the Standing Offer Authority no later than **ten (10)** calendar days before the Request for Standing Offers (RFSO) closing date. Enquiries received after that time may not be answered.

Offerors should reference as accurately as possible the numbered item of the RFSO to which the enquiry relates. Care should be taken by Offerors to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly marked "proprietary" at each relevant item. Items identified as "proprietary" will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the question(s) or may request that Offerors do so, so that the proprietary nature of the question(s) is eliminated, and the enquiry can be answered to

all Offerors. Enquiries not submitted in a form that can be distributed to all Offerors may not be answered by Canada.

## **2.4. Applicable Laws**

The Standing Offer and any contract resulting from the Standing Offer must be interpreted and governed, and the relations between the parties determined, by the laws in force in **Nova Scotia**.

Offerors may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their offer, by deleting the name of the Canadian province or territory specified and inserting the name of the Canadian province or territory of their choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the Offerors.

## **PART 3 - OFFER PREPARATION INSTRUCTIONS**

### **3.1. Offer Preparation Instructions**

Canada requests that offerors provide their offer in separately bound sections as follows:

Section I:      Technical Offer (two (2) hard copies)  
Section II:     Financial Offer (one (1) hard copy)  
Section III:    Certifications (one (1) hard copy)

Prices must appear in the financial offer only. No prices must be indicated in any other section of the offer.

Canada requests that Offerors follow the format instructions described below in the preparation of their offer.

- (a) use 8.5 x 11 inch (216 mm x 279 mm) paper;
- (b) use a numbering system that corresponds to that of the Request for Standing Offers.

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process [Policy on Green Procurement](http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html>). To assist Canada in reaching its objectives, Offerors should:

- 1) use 8.5 x 11 inch (216 mm x 279 mm) paper containing fibre certified as originating from a sustainably-managed forest and containing minimum 30% recycled content; and
- 2) use an environmentally-preferable format including black and white printing instead of colour printing, printing double sided/duplex, using staples or clips instead of cerlox, duotangs or binders.

#### **Section I: Technical Offer**

In their technical offer, Offerors should explain and demonstrate how they propose to meet the requirements and how they will carry out the Work.

#### **Section II: Financial Offer**

Offerors must submit their financial offer in accordance with **Annex F, Financial Offer Presentation Sheet**. The total amount of Applicable Taxes must be shown separately.

### **3.1.1 Payment by Credit Card**

Canada requests that Offerors complete one of the following:

- (a)            ☐ Government of Canada Acquisition Cards (credit cards) will be accepted for payment of call-ups against the standing offer.

The following credit card is accepted:

Master Card \_\_\_\_\_

- (b)            ☐ Government of Canada Acquisition Cards (credit cards) will not be accepted for payment of call-ups against the standing offer.

The Offeror is not obligated to accept payment by credit card.

Acceptance of credit cards for payment of call-ups will not be considered as an evaluation criterion.

### **3.1.2 Exchange Rate Fluctuation**

The requirement does not offer exchange rate fluctuation risk mitigation. Requests for exchange rate fluctuation risk mitigation will not be considered. All bids including such provision will render the bid non-responsive.

## **Section III: Certifications**

Offerors must submit the certifications required under Part 5.

## **PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION**

### **4.1 Evaluation Procedures**

- a) Offers will be assessed in accordance with the entire requirement of the Request for Standing Offers including the technical and financial evaluation criteria.  
b) An evaluation team composed of representatives of Canada will evaluate the bids.

#### **4.1.1. Technical Evaluation**

##### **4.1.1.1 Mandatory Technical Criteria**

Refer to Annex E, Mandatory Technical Criteria.

##### **4.1.2 Financial Evaluation**

Refer to Annex F, Financial Offer Presentation Sheet.

###### **4.1.2.1 Evaluation of Price**

SACC Manual Clause **M0220T** (2016-01-28), Evaluation of Price

#### **4.2 Basis of Selection**

An offer must comply with the requirements of the Request for Standing Offers to be declared responsive. The responsive offer with the total lowest aggregate evaluated price including option years will be recommended for issuance of a standing offer.

### **PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION**

Offerors must provide the required certifications and additional information to be issued a standing offer.

The certifications provided by Offerors to Canada are subject to verification by Canada at all times. Canada will declare an offer non-responsive, will have the right to set-aside a standing offer, or will declare a contractor in default if any certification made by the Offeror is found to be untrue whether made knowingly or unknowingly during the offer evaluation period, during the Standing Offer period, or during the contract period.

The Standing Offer Authority will have the right to ask for additional information to verify the Offeror's certifications. Failure to comply and to cooperate with any request or requirement imposed by the

Standing Offer Authority will render the offer non-responsive, result in the setting aside of the Standing Offer or constitute a default under the Contract.

#### **5.1 Certifications Required with the Offer**

Offerors must submit the following duly completed certifications as part of their offer.

##### **5.1.1 Integrity Provisions - Declaration of Convicted Offences**

In accordance with the **Ineligibility and Suspension Policy** (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Offeror must provide with its offer the required documentation, as applicable), to be given further consideration in the procurement process.

#### **5.2 Certifications and additional information Precedent to the Issuance of a Standing Offer**

The certifications listed below should be completed and submitted with the offer, but may be submitted afterwards. If any of these required certifications is not completed and submitted as requested, the Standing Offer Authority will inform the Offeror of a time frame within which to provide the information.

Failure to comply with the request of the Standing Offer Authority and to provide the certifications within the time frame provided will render the offer non-responsive.

##### **5.2.1 Integrity Provisions – Required Documentation**

In accordance with the *Ineligibility and Suspension Policy* (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Offeror must provide the required documentation, as applicable, to be given further consideration in the procurement process.

### **5.2.2 Federal Contractors Program for Employment Equity - Standing Offer Certification**

By submitting an offer, the Offeror certifies that the Offeror, and any of the Offeror's members if the Offeror is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "FCP Limited Eligibility to Bid" list ) available at the bottom of the page of the [Employment and Social Development Canada-Labour's](http://www.esdc.gc.ca/en/jobs/workplace/human_rights/employment_equity/federal_contractor_program.page?&_ga=1.229006812.1158694905.1413548969) website ([http://www.esdc.gc.ca/en/jobs/workplace/human\\_rights/employment\\_equity/federal\\_contractor\\_program.page?&\\_ga=1.229006812.1158694905.1413548969](http://www.esdc.gc.ca/en/jobs/workplace/human_rights/employment_equity/federal_contractor_program.page?&_ga=1.229006812.1158694905.1413548969)).

Canada will have the right to declare an offer non-responsive, or to set-aside a Standing Offer, if the Offeror, or any member of the Offeror if the Offeror is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list at the time of issuing of a Standing Offer or during the period of the Standing Offer.

### **5.2.3 Licensing**

The contractor must obtain and maintain all permits, licenses and certificates of approval required for work to be performed under any applicable federal, provincial or municipal legislation. The Contractor shall be responsible for any changes imposed by such legislation or regulations. Upon request the contractor shall provide a copy of any such permit, license, or certificate.

## **PART 6 – SECURITY AND INSURANCE REQUIREMENTS**

### **6.1 Financial Capability**

SACC Manual clause **M9033T** (2011-05-16), Financial Capability

### **6.2 Insurance Requirements**

The Offeror must provide a letter from an insurance broker or an insurance company licensed to operate in Canada stating that the Offeror, if issued a standing offer as a result of the request for standing offer, can be insured in accordance with the Insurance Requirements specified in **Annex C**.

If the information is not provided in the offer, the Standing Offer Authority will so inform the Offeror and provide the Offeror with a time frame within which to meet the requirement. Failure to comply with the request of the Standing Offer Authority and meet the requirement within that time period will render the offer non-responsive.

### **6.3 Workers Compensation Certification – Letter of Good Standing**

The Bidder must have an account in good standing with the applicable provincial or territorial Workers' Compensation Board.

The Bidder must provide, within forty-eight (48) hours following a request from the Contracting Authority, a certificate or letter from the applicable Workers' Compensation Board confirming the

Bidder's good standing account. Failure to comply with the request may result in the bid being declared non-responsive.

## **PART 7 - STANDING OFFER AND RESULTING CONTRACT CLAUSES**

### **A. STANDING OFFER**

#### **7.1 Offer**

The Offeror offers to fulfill the requirement in accordance with the Requirement at Annex A.

#### **7.2 Security Requirements**

There is no security requirement applicable to this Standing Offer.

#### **7.3 Standard Clauses and Conditions**

All clauses and conditions identified in the Standing Offer and resulting contract(s) by number, date and title are set out in the *Standard Acquisition Clauses and Conditions Manual* (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

##### **7.3.1 General Conditions**

**2005 (2017-06-21)** General Conditions - Standing Offers - Goods or Services, apply to and form part of the Standing Offer.

##### **7.3.2 Standing Offers Reporting**

The Offeror must compile and maintain records on its provision of goods, services or both to the federal government under contracts resulting from the Standing Offer. This data must include all purchases, including those paid for by a Government of Canada Acquisition Card.

The Offeror must provide this data in accordance with the reporting requirements detailed in Annex D. If some data is not available, the reason must be indicated. If no goods or services are provided during a given period, the Offeror must still provide a "nil" report.

The data must be submitted on a *quarterly basis* to the Standing Offer Authority.

The quarterly reporting periods are defined as follows:

- 1st quarter: \_\_\_\_\_
- 2nd quarter: \_\_\_\_\_
- 3rd quarter: \_\_\_\_\_
- 4th quarter: \_\_\_\_\_

The data must be submitted to the Standing Offer Authority no later than 30 calendar days after the end of the reporting period.

## **7.4 Term of Standing Offer**

### **7.4.1 Period of the Standing Offer**

The period for making call-ups against the Standing Offer is from date of issue of the Standing Offer for a two-year period.

### **7.4.2 Extension of Standing Offer**

If the Standing Offer is authorized for use beyond the initial period, the Offeror offers to extend its offer for an additional two (2), one-year periods, under the same conditions and at the rates or prices specified in the Standing Offer, or at the rates or prices calculated in accordance with the formula specified in the Standing Offer.

## **7.5. Authorities**

### **7.5.1 Standing Offer Authority**

The Standing Offer Authority is:

**Name: Blaine MacNeil**  
**Title: Contracting Officer**  
**Public Works and Government Services Canada**  
**Acquisitions Branch, Atlantic Region**  
**Address: 1713 Bedford Row, Halifax, NS, B3J 3C9**  
**Telephone: 902-403-3918**  
**Facsimile: 902-496-5016**  
**E-mail address: blaine.macneil@pwgsc-tpsgc.gc.ca**

The Standing Offer Authority is responsible for the establishment of the Standing Offer, its administration and its revision, if applicable. Upon the making of a call-up, as Contracting Authority, he is responsible for any contractual issues relating to individual call-ups made against the Standing Offer by any Identified User.

### **7.5.2 Project Authority**

The Project Authority for the Standing Offer is:

The Project Authority for the Standing Offer is identified in the call-up against the Standing Offer.

The Project Authority is the representative of the department or agency for whom the Work will be carried out pursuant to a call-up against the Standing Offer and is responsible for all the technical content of the Work under the resulting Contract.

### **7.5.3 Offeror's Representative (Bidder to fill in)**

*The Offeror is to complete table below and submit with their bid.*

Contact for:	Name	Telephone	Email
--------------	------	-----------	-------

Contracting / Standing Offer issues			
Technical issues			
Invoicing issues			

Procurement Business Number (PBN): \_\_\_\_\_

**Procurement Business Number:** Suppliers are required to have a Procurement Business Number (PBN) before contract award. Suppliers may register for a PBN online at [Supplier Registration Information](#). For non-Internet registration, suppliers may contact the InfoLine at 1-800-811-1148 to obtain the telephone number of the nearest Supplier Registration Agent.

## 7.6 Identified Users

The Identified User authorized to make call-ups against the Standing Offer is:  
**Canadian Coast Guard, Marine and Civil Infrastructure** or **Maritime and Civil Infrastructure**.

## 7.7 Call-up Instrument

The Work will be authorized or confirmed by the Identified User(s) using form PWGSC-TPSGC 942, Call-up Against a Standing Offer.

## 7.8 Limitation of Call-ups

Individual call-ups against the Standing Offer must not exceed \$100,000.00 (Applicable Taxes included).

Individual call-ups against the Standing Offer exceeding \$100,000.00 (Applicable Taxes included), must be authorized in writing by the Standing Offer Authority.

## 7.9 Financial Limitation

The total cost to Canada resulting from call ups against the Standing Offer must not exceed the sum of **\$TO BE DETERMINED** (*Applicable Taxes excluded*) unless otherwise authorized in writing by the Standing Offer Authority. The Offeror must not perform any work or services or supply any articles in response to call ups which would cause the total cost to Canada to exceed the said sum, unless an increase is so authorized.

The Offeror must notify the Standing Offer Authority as to the adequacy of this sum when 75 percent of this amount has been committed, or three (3) months before the expiry date of the Standing Offer, whichever comes first. However, if at any time, the Offeror considers that the said sum may be exceeded, the Offeror must promptly notify the Standing Offer Authority.

## 7.10 Priority of Documents

If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.

- a) the call-up against the Standing Offer, including any annexes;
- b) the articles of the Standing Offer;
- c) the general conditions [2005 \(2017-06-21\)](#), General Conditions - Standing Offers - Goods or Services;
- d) the general conditions [2010A \(2018-06-21\)](#), General Conditions - Goods (Medium Complexity);
- e) Annex A, Requirement;
- f) Annex B, Basis of Payment;
- g) Annex C, Insurance Requirements;
- h) Annex D, Reporting Requirements;
- i) the Offeror's offer dated \_\_\_\_\_.

## **7.11 Certifications**

### **7.11.1 Compliance**

Unless specified otherwise, the continuous compliance with the certifications provided by the Offeror with its offer or precedent to issuance of the Standing Offer (SO), and the ongoing cooperation in providing additional information are conditions of issuance of the SO and failure to comply will constitute the Offeror in default. Certifications are subject to verification by Canada during the entire period of the SO and of any resulting contract that would continue beyond the period of the SO.

## **7.12 Applicable Laws**

The Standing Offer and any contract resulting from the Standing Offer must be interpreted and governed, and the relations between the parties determined, by the laws in force in \_\_\_\_\_.

## **B. RESULTING CONTRACT CLAUSES**

The following clauses and conditions apply to and form part of any contract resulting from a call-up against the Standing Offer.

### **7.1 Requirement**

The Contractor must provide the items detailed in the call-up against the Standing Offer.

### **7.2 Standard Clauses and Conditions**

#### **7.2.1 General Conditions**

[2010A \(2018-06-21\)](#), General Conditions - Goods (Medium Complexity) apply to and form part of the Contract.

Section 16, Interest on Overdue Accounts, of [2010A \(2018-06-21\)](#), General Conditions - Goods (Medium Complexity) will not apply to payments made by credit cards.

### **7.3 Term of Contract**

#### **7.3.1 Delivery Date**

Delivery must be made within **ten (10) weeks** from receipt of a call-up against the Standing Offer.

## **7.4 Payment**

### **7.4.1 Basis of Payment**

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid firm unit prices, as specified in Annex B for a cost of \$ \_\_\_\_\_. Customs and duties are included and Applicable Taxes are extra. Canada will not pay the Contractor for any design changes, modifications or interpretations of the Work, unless they have been approved, in writing, by the Contracting Authority before their incorporation into the Work.

### **7.4.2 Single Payment**

SACC Manual clause [H1000C \(2008-05-12\)](#), Single Payment.

### **7.4.3 Payment by Credit Card (if applicable)**

The following credit cards are accepted: \_\_\_\_\_ and \_\_\_\_\_.

## **7.5 Invoicing Instructions**

1. The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.
2. Invoices must be distributed as follows:

The original and one (1) copy must be forwarded to the address shown on page 1 of the Contract for certification and payment.

## **7.6 Price Adjustment – Metals**

The prices detailed in the Contract are subject to upward or downward adjustment, according to changes at time of delivery, to allow for:  
changes due to price adjustment in metal products that are a direct result of increased or decreased current base price imposed by the applicable metals commodity market. A copy of the Contractor's notification of base price increase or decrease from the metal producer must be provided to the Contracting Authority; and/or imposition of any new or changes to any existing levies, tariffs or fees of whatsoever nature applicable to any metal product, authorized, imposed or agreed to by Canada or any provincial government or by any Governmental Regulatory Authority.

The contract price will be amended to reflect the actual increase or decrease at time of delivery. The Contractor must not invoice at prices other than those specified in the Contract.

## **7.7 Insurance Requirements**

The Contractor must comply with the insurance requirements specified in **Annex C**. The Contractor must maintain the required insurance coverage for the duration of the Contract. Compliance with the insurance requirements does not release the Contractor from or reduce its liability under the Contract. The Contractor is responsible for deciding if additional insurance coverage is necessary to fulfill its obligation under the Contract and to ensure compliance with any applicable law. Any additional insurance coverage is at the Contractor's expense, and for its own benefit and protection. The Contractor must forward to the Contracting Authority within ten (10) days after the date of award of the Contract, a Certificate of Insurance evidencing the insurance coverage and confirming that the insurance policy complying with the requirements is in force. For Canadian-based Contractors, coverage must be placed with an Insurer licensed to carry out business in Canada, however, for Foreign-based Contractors, coverage must be placed with an Insurer with an A.M. Best Rating no less than "A-". The Contractor must, if requested by the Contracting Authority, forward to Canada a certified true copy of all applicable insurance policies.

## **7.8 Trade Qualifications**

The Contractor must use qualified, certificated (if applicable) and competent tradespeople and supervision to ensure a uniform high level of workmanship. The Technical Authority may request to view and record details of the certification and/or qualifications held by the Contractor's tradespeople. This request should not be unduly exercised but only to ensure qualified tradespeople are on the job.

## **ANNEX "A"**

### **REQUIREMENT**

#### **1.0 OBJECTIVE**

The Canadian Coast Guard's objective is to improve the existing inventory of aids to navigation in the Atlantic Region. This requirement involves the fabrication of new 2.9m steel buoys which will be deployed in remote waterway areas on the east coast of Canada.

#### **2.0 BACKGROUND**

Canadian Coast Guard (CCG) is a Special Operating Agency of Fisheries and Oceans Canada (DFO). The Oceans Act and the Canada Shipping Act provide the primary legislative basis for Coast Guard programs. The project supports the legislative obligations of the Department, as outlined primarily in Part III of the Oceans Act, Section 41(a), wherein the Minister is mandated to provide services to support the Government of Canada's initiatives through the provision of ships, aircraft, and other marine services for the safe, economical, and efficient movement of ships in Canadian waters.

#### **3.0 SCOPE OF WORK**

##### **i. Required Services**

The Contractor must fabricate, test, and deliver on an as and when requested basis 9 ½ foot (approximately 2.9 metre) diameter welded steel navigation buoy(s) in accordance with the CCG Standard Steel Buoys for Aids to Navigation Specification and the 2.9m buoy hull drawings attached as Appendix A and A1 respectively.

The Contractor's responsibilities include, but not limited to, the following:

##### **(a) General**

1. At a minimum, the work must be performed in accordance with National Building Code of Canada (NBCC) and any other code of provincial or local application. In the case of any conflict or discrepancy, the specified standards, codes and referenced documents outlined in Annex A and its appendices will take precedent.
2. Must develop and submit a work plan that will include, at a minimum, a list of all subcontractors that will be used.
3. Must develop and implement a Safety Program. Details as to what needs to be included is outlined in Article 4.3 and Appendix 1 to Annex A.
4. Must submit Mill Test Certifications. Must provide proof that all the metal purchased for the Contract is in compliance with the Canadian Standards Association (CSA) and the American Society for Testing and Materials (ASTM) International standards.

##### **(b) Fees, Permits, Certificates and Information**

1. The Contractor must provide authorities having jurisdiction with all information requested.
  2. The Contractor must provide copies to the PA of any documentation submitted to other authorities related to the work described in this document.
  3. The Contractor must pay fees and obtain certificates and permits required.
  4. The Contractor must provide certificates and permits when requested.
- (c) **Warranty**  
All buoys must be warranted against faults in manufacturing for a period of twelve (12) months from the date of delivery and acceptance by the CCG.
- (d) **Reference Documents**  
The most recent publication or edition of any document referenced in this Contract must be used unless the referencing clause states that this clause does not apply.

**ii. Anticipated Quantities**

The initial call-up against the Standing Offer is anticipated but not necessarily guaranteed to be for a quantity of ten (10) buoys, five (5) long leg buoys and five (5) short leg buoys, to be delivered to the CCG Base at 50 Discovery Drive, Dartmouth, NS no later than March 31 2020.

**4.0 CCG REPRESENTATIVE RESPONSIBILITIES**

The CCG Representative shall be responsible for, but not limited to, the following:

- a) Provide information to the Contractor on the markings and serial number to be inscribed on each buoy as described in the Specification Section 1.6.
- b) Inspection of the work will be coordinated with the Contractor and will include, but not limited to, the following:
  - i. 100% visual inspection
  - ii. Non-destructive testing on selected welding locations
  - iii. Reviewing pressure testing

**5.0 DRAWINGS AND SPECIFICATIONS**

Refer to the Appendix for the following:

- a) Specification: Coast Guard Publication 57-000-000-EU-SR-001 STANDARD STEEL BUOYS FOR AIDS TO NAVIGATION
- b) Drawings:
  - Drawing No. 2019\_07\_17-FA-1007-ATL-03.pdf - 2.9M BUOY HULL (SHORT)
  - Drawing No. 2019\_07\_17-FA-1010-ATL-03.pdf - 2.9M BUOY HULL (LONG)

**6.0 ALLOWABLE DEVIATIONS FROM 57-000-000-EU-SR-001**

- a) Depending upon the Contractor's fabrication process, an increase of the radius on the dish plate at the top and bottom of the buoy from 1" to 2" will be allowed if requested.

This has the additional effect of reducing the allowable height of the cylindrical portion of the buoy to 60".

b) In Section 4.1 Pressure Tests - the air pressure testing can be modified as follows: the shell or body of metal buoy(s) shall be air tested to a pressure of three (3) psi (21kPa). A pressure gauge shall be included in the pressure test system and shall indicate no loss of pressure within sixty (60) minutes.

c) In Section 2 Materials, the following are acceptable substitutes for the steel grade listed:

- i. ASTM SAE 516gr 70
- ii. CSA G40.21 grade W44/300W

**APPENDIX A to ANNEX A - SPECIFICATION**

**STANDARD STEEL BUOYS FOR AIDS TO NAVIGATION  
Coast Guard Publication 57-000-000-EU-SR-001**

**See Attached**

**APPENDIX A 1 – DRAWINGS**

PLEASE CONTACT [blaine.macneil@pwgsc-tpsgc.gc.ca](mailto:blaine.macneil@pwgsc-tpsgc.gc.ca) FOR COPIES OF THE DRAWING.

**ANNEX B  
BASIS OF PAYMENT**

**Offeror's Instructions**

The blank basis of payment schedule below is for example purposes only. The Offeror must submit their Financial Offer in accordance with Annex F, Financial Offer Presentation Sheet.

**B1. YEAR 1 and YEAR 2**

ITEM	CLASS OF LABOUR PLANT OR MATERIAL	UNIT COST Year 1 Date of Issuance to September 30, 2020	UNIT COST Year 2 October 1, 2020 to September 30, 2021
<b>STEEL NAVIGATION BUOY SUPPLY FABRICATION</b>			
1	PRICE for the fabrication and supply of one STEEL NAVIGATION BUOY <i>LONG LEG BUOY</i>	\$ _____	\$ _____
2	PRICE for the fabrication and supply of one STEEL NAVIGATION BUOY <i>SHORT LEG BUOY</i>	\$ _____	\$ _____
<b>STEEL NAVIGATION BUOY DELIVERY</b>			
3	Delivery of one STEEL NAVIGATION BUOY to CCG Base Dartmouth, NS	\$ _____	\$ _____

**B2. Option Year 1**

Same format as section B1.

**B3. Option Year 2**

Same format as section B1

**B4. Option Year 3.**

Same format as section B1.

*(actual initial year will be for a full one-year period)*

## **ANNEX C**

### ***INSURANCE REQUIREMENTS***

1. The Contractor must obtain Commercial General Liability Insurance, and maintain it in force throughout the duration of the Standing Offer, in an amount usual for a Standing Offer of this nature, but for not less than \$2,000,000 per accident or occurrence and in the annual aggregate.
2. The Commercial General Liability policy must include the following:
  - a. Additional Insured: Canada is added as an additional insured, but only with respect to liability arising out of the Contractor's performance of the Contracts. The interest of Canada should read as follows: Canada, as represented by Public Works and Government Services Canada.
  - b. Bodily Injury and Property Damage to third parties arising out of the operations of the Contractor.
  - c. Products and Completed Operations: Coverage for bodily injury or property damage arising out of goods or products manufactured, sold, handled, or distributed by the Contractor and/or arising out of operations that have been completed by the Contractor.
  - d. Personal Injury: While not limited to, the coverage must include Violation of Privacy, Libel and Slander, False Arrest, Detention or Imprisonment and Defamation of Character.
  - e. Cross Liability/Separation of Insureds: Without increasing the limit of liability, the policy must protect all insured parties to the full extent of coverage provided. Further, the policy must apply to each Insured in the same manner and to the same extent as if a separate policy had been issued to each.
  - f. Blanket Contractual Liability: The policy must, on a blanket basis or by specific reference to the Standing Offer, extend to assumed liabilities with respect to contractual provisions.
  - g. Employees and, if applicable, Volunteers must be included as Additional Insured.
  - h. Employers' Liability (or confirmation that all employees are covered by Worker's compensation (WSIB) or similar program)
  - i. Broad Form Property Damage including Completed Operations: Expands the Property Damage coverage to include certain losses that would otherwise be excluded by the standard care, custody or control exclusion found in a standard policy.
  - j. Notice of Cancellation: The Insurer will endeavour to provide the Standing Offer Authority thirty (30) days written notice of policy cancellation.

- k. If the policy is written on a claims-made basis, coverage must be in place for a period of at least 12 months after the completion or termination of the Standing Offer.
- l. Owners' or Contractors' Protective Liability: Covers the damages that the Contractor becomes legally obligated to pay arising out of the operations of a subcontractor.

**ANNEX D**

**REPORTING REQUIREMENTS**

<b>PERIOD:</b> _____		<b>Number of Call-ups:</b> _____	
<b>ITEM</b>	<b>CLASS OF LABOUR PLANT OR MATERIAL</b>	<b>QTY PURCHASED</b>	<b>Extended Total</b>
<b>STEEL NAVIGATION BUOY FABRICATION</b>			
1	Fabrication and supply of STEEL NAVIGATION BUOY <i>LONG LEG BUOY</i>		\$
2	Fabrication and supply of STEEL NAVIGATION BUOY <i>SHORT LEG BUOY</i>		\$
<b>STEEL NAVIGATION BUOY DELIVERY</b>			
2	Delivery of STEEL NAVIGATION BUOY		
<b>Total Spend for Period:</b>			\$

Applicable Taxes are extra.

## ANNEX E - MANDATORY TECHNICAL CRITERIA

<p>In order for an Offeror's Technical Offer to be responsive, the Offeror must mark an (X) at each BOLD header signifying that the specification has been read and that any offer will meet or exceed the required compliance with the written specification and any reference drawings contained in the Solicitation</p>	
	<b>Will comply?</b>
<b>1. ITEMS 1.1 TO 4.2 – FABRICATE STEEL NAVIGATIONAL BUOYS AS PER SPECIFICATION APPENDIX 1</b>	
<b>2. INSPECTION AND INSPECTION CERTIFICATION to ensure buoys meeting specification Annex A Item 4 (b) and Appendix 1 Items 1.4 and 1.5</b>	
<b>3. WARRANTY – Minimum 12 months Appendix 1 Item 1.7</b>	
<b>4. MATERIAL – all steel plate and steel structural members conform to either Canadian Standards Association CSA G40.21 or American Society for Testing Materials ASTM A36 Annex A - Appendix 1 Item 2.1</b>	
<b>5. WELDING – welding must be done by welders certified to Canadian Welding Bureau CWB and qualified under CSA W47.1</b>	
<b>6. PRESSURE AND PROOF TESTS – complete tests to satisfaction of Inspector and Technical Authority. Annex A Item 4 (b) and Appendix 1 Item 4.1 and 4.2</b>	

<b>Offeror's Representative – Certification</b>		

<i>Print Name</i>	<i>Signature</i>	<i>Date</i>
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**ANNEX F****FINANCIAL OFFER PRESENTATION SHEET****Offeror's Instructions**

The Offeror must fill out the pricing schedule below and include it in their Financial Offer. The aggregate total of all the extended prices provided in the schedule below will form the price that will be evaluated. Applicable Taxes are extra.

Note that offerors are required to provide pricing for the option years and the option years will form a part of the financial evaluation. Prices must stay the same or increase but must not decrease in subsequent years.

The Pricing provided in the Offer will be incorporated into the resulting Basis of Payment of the Standing Offer.

**F1. STEEL NAVIGATIONAL BUOY PRICING – YEAR 1**

<b>QUANTITY OF STEEL NAVIGATIONAL BUOYS PER CALLUP</b>	<b>LOT PRICE FOR THE FABRICATION AND SUPPLY OF THE QUANTITY OF STEEL NAVIGATIONAL LONG LEG BUOYS (a)</b>	<b>LOT PRICE FOR THE FABRICATION AND SUPPLY OF THE QUANTITY OF STEEL NAVIGATIONAL SHORT LEG BUOYS (b)</b>	<b>LOT PRICE FOR THE DELIVERY OF THE QUANTITY OF STEEL NAVIGATIONAL BUOYS (c)</b>	<b>COLUMN (d) TOTAL (CAD\$) (a) + (b) + (c)</b>
<b>1</b>	\$ _____	\$ _____	\$ _____	\$ _____
<b>2</b>	\$ _____	\$ _____	\$ _____	\$ _____
<b>3</b>	\$ _____	\$ _____	\$ _____	\$ _____
<b>4</b>	\$ _____	\$ _____	\$ _____	\$ _____
<b>5</b>	\$ _____	\$ _____	\$ _____	\$ _____
<b>TOTAL YEAR 1 = Sum of Column (d) for all quantities</b>				\$ _____

**F2. STEEL NAVIGATIONAL BUOY PRICING - YEAR 2**

<b>QUANTITY OF STEEL NAVIGATIONAL BUOYS PER CALLUP</b>	<b>LOT PRICE FOR THE FABRICATION AND SUPPLY OF THE QUANTITY OF STEEL NAVIGATIONAL LONG LEG BUOYS (a)</b>	<b>LOT PRICE FOR THE FABRICATION AND SUPPLY OF THE QUANTITY OF STEEL NAVIGATIONAL SHORT LEG BUOYS (b)</b>	<b>LOT PRICE FOR THE DELIVERY OF THE QUANTITY OF STEEL NAVIGATIONAL BUOYS (c)</b>	<b>COLUMN (d) TOTAL (CAD\$) (a) + (b) + (c)</b>
<b>1</b>	\$ _____	\$ _____	\$ _____	\$ _____
<b>2</b>	\$ _____	\$ _____	\$ _____	\$ _____
<b>3</b>	\$ _____	\$ _____	\$ _____	\$ _____
<b>4</b>	\$ _____	\$ _____	\$ _____	\$ _____
<b>5</b>	\$ _____	\$ _____	\$ _____	\$ _____
<b>TOTAL YEAR 2 = Sum of Column (d) for all quantities</b>				\$ _____

**F3. STEEL NAVIGATIONAL BUOY PRICING – OPTION YEAR 1**

<b>QUANTITY OF STEEL NAVIGATIONAL BUOYS PER CALLUP</b>	<b>LOT PRICE FOR THE FABRICATION AND SUPPLY OF THE QUANTITY OF STEEL NAVIGATIONAL LONG LEG BUOYS (a)</b>	<b>LOT PRICE FOR THE FABRICATION AND SUPPLY OF THE QUANTITY OF STEEL NAVIGATIONAL SHORT LEG BUOYS (b)</b>	<b>LOT PRICE FOR THE DELIVERY OF THE QUANTITY OF STEEL NAVIGATIONAL BUOYS (c)</b>	<b>COLUMN (d) TOTAL (CAD\$) (a) + (b) + (c)</b>

1	\$ _____	\$ _____	\$ _____	\$ _____
2	\$ _____	\$ _____	\$ _____	\$ _____
3	\$ _____	\$ _____	\$ _____	\$ _____
4	\$ _____	\$ _____	\$ _____	\$ _____
5	\$ _____	\$ _____	\$ _____	\$ _____
TOTAL OPTION YEAR 1 = Sum of Column (d) for all quantities				\$ _____

**F4. STEEL NAVIGATIONAL BUOY PRICING – OPTION YEAR 2**

QUANTITY OF STEEL NAVIGATIONAL BUOYS PER CALLUP	LOT PRICE FOR THE FABRICATION AND SUPPLY OF THE QUANTITY OF STEEL NAVIGATIONAL LONG LEG BUOYS (a)	LOT PRICE FOR THE FABRICATION AND SUPPLY OF THE QUANTITY OF STEEL NAVIGATIONAL SHORT LEG BUOYS (b)	LOT PRICE FOR THE DELIVERY OF THE QUANTITY OF STEEL NAVIGATIONAL BUOYS (c)	COLUMN (d) TOTAL (CAD\$) (a) + (b) + (c)
1	\$ _____	\$ _____	\$ _____	\$ _____
2	\$ _____	\$ _____	\$ _____	\$ _____
3	\$ _____	\$ _____	\$ _____	\$ _____
4	\$ _____	\$ _____	\$ _____	\$ _____
5	\$ _____	\$ _____	\$ _____	\$ _____

<b>TOTAL OPTION YEAR 2 = Sum of Column (d) for all quantities</b>	<b>\$ _____</b>
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**F5. STEEL NAVIGATIONAL BUOY PRICING – OPTION YEAR 3**

<b>QUANTITY OF STEEL NAVIGATIONAL BUOYS PER CALLUP</b>	<b>LOT PRICE FOR THE FABRICATION AND SUPPLY OF THE QUANTITY OF STEEL NAVIGATIONAL LONG LEG BUOYS (a)</b>	<b>LOT PRICE FOR THE FABRICATION AND SUPPLY OF THE QUANTITY OF STEEL NAVIGATIONAL SHORT LEG BUOYS (b)</b>	<b>LOT PRICE FOR THE DELIVERY OF THE QUANTITY OF STEEL NAVIGATIONAL BUOYS (c)</b>	<b>COLUMN (d) TOTAL (CAD\$) (a) + (b) + (c)</b>
<b>1</b>	<b>\$ _____</b>	<b>\$ _____</b>	<b>\$ _____</b>	<b>\$ _____</b>
<b>2</b>	<b>\$ _____</b>	<b>\$ _____</b>	<b>\$ _____</b>	<b>\$ _____</b>
<b>3</b>	<b>\$ _____</b>	<b>\$ _____</b>	<b>\$ _____</b>	<b>\$ _____</b>
<b>4</b>	<b>\$ _____</b>	<b>\$ _____</b>	<b>\$ _____</b>	<b>\$ _____</b>
<b>5</b>	<b>\$ _____</b>	<b>\$ _____</b>	<b>\$ _____</b>	<b>\$ _____</b>
<b>TOTAL OPTION YEAR 3 = Sum of Column (d) for all quantities</b>				<b>\$ _____</b>

**F5. Evaluated Price of the Offer**

Total for Year 1 (a)	<b>\$ _____</b>
Total for Year 2 (b)	<b>\$ _____</b>
Total for Option Year 1 (c)	<b>\$ _____</b>
Total for Option Year 2 (d)	<b>\$ _____</b>

Total for Option Year 3 (e)	
<b>Evaluated Price of the Offer = (a + b +c + d + e)</b>	<b>\$ _____</b>

**F6. Optional - Contractor's Facility Discount**

The contractor may offer a discount of \_\_\_\_\_% to all buoy prices for the duration of the Standing Offer for occasional requirements where it would be advantageous for Canada to take possession of the items at the contractor's facility within Canada.

This will not be evaluated. However, it would be advantageous for the bidder and the client if this discount is offered as it would reduce delivery costs to both parties.

**ANNEX "G"**  
**INFORMATION FOR**  
**CODE OF CONDUCT CERTIFICATION**

***[MUST BE COMPLETED BY  
OFFEROR/BIDDER WITH BID SUBMISSION]***

Please provide list of names of the following entities, according to the ownership nature of the company

1. For a Corporation - each current member of the Bidder's Board of Directors;

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2. For a Sole Proprietorship or an individual doing business under a firm name - the name of the sole proprietor or individual;

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3. For a Joint Venture - the names of all current members of the Joint venture;

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4. For an individual - the full name of the person;

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**ANNEX H****OFFER PACKAGE CHECKLIST****H1.1 Mandatory Tender Deliverable Check List**

Notwithstanding deliverable requirements specified anywhere else within this offer solicitation and its associated Requirement (Annex A), mandatory deliverables that must be submitted with the Offeror's tender to be responsive are summarized below.

The Offeror must submit a completed Annex H1 – Deliverable / Certifications

The following are mandatory and the Offeror's submission will be evaluated against the requirement as defined herein. The Offeror must be determined to be compliant on each item to be considered responsive.

<b>No.</b>	<b>Reference to Solicitation</b>	<b>Description</b>	<b>Condition</b>	<b>Document Provided</b>	<b>Reference to Offer (Section, Page no., etc.)</b>
1	Front page	Request for Standing Offer document part 1 page 1 completed and signed;	Mandatory with the offer	<input type="checkbox"/>	
2		Technical Offer	Mandatory with the offer	<input type="checkbox"/>	
3	Article 6.2 / Annex C	Either a letter substantiating that the required insurance coverage will be provided, as per article 6.2 <b>OR</b> proof of insurance coverage, as required by Annex C,	Mandatory with the offer	<input type="checkbox"/>	
4	Annex E	Mandatory Technical Criteria, completed and signed	Mandatory with the offer	<input type="checkbox"/>	
5	Annex F	Financial Offer Presentation Sheet, completed;	Mandatory with the offer	<input type="checkbox"/>	

**H1.2 Supporting Deliverable Requirements**

If the following information which supports the offer is not submitted with the offer; it may be requested by the Standing Offer Authority, and it must be provided within 24 hours of the written request:

No.	Reference to Solicitation	Description	Condition	Document Provided	Reference to Offer (Section, Page no., etc.)
1	Article 6.1	Financial Statements and information	24 hrs of written request	<input type="checkbox"/>	
2	Article 6.3	Workers' Compensation Certification	24 hrs of written request	<input type="checkbox"/>	
3	Article 7.5.4	Contractor's Representatives, table completed	24 hrs of written request	<input type="checkbox"/>	
4	Annex G. Article 5.2.1	Integrity Provisions – List of Names, completed and signed	24 hrs of written request	<input type="checkbox"/>	
5	Annex H	Annex H – Bid Package Checklist, completed	24 hrs of written request	<input type="checkbox"/>	

### H1.3 Deliverables after contract award

The following information, which supports the offer, may be requested by the Standing Offer Authority, and it must be provided within the conditions stated in the table below of the written request:

No.	Article	Description	Condition
1	7.6	Insurance certificate	10 days after Standing Offer issuance



Fisheries and Oceans  
Canada

Pêches et Océans  
Canada

Coast Guard

Garde côtière

57-000-000-EU-SR-001

# ***STANDARD STEEL BUOYS FOR AIDS TO NAVIGATION***



***Canadian Coast Guard***  
***SPECIFICATION***

Canada



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## **Chapter 1      GENERAL**

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### **1.1      SCOPE**

This specification states the requirements of the Canadian Coast Guard, Marine Programs Directorate of the Department of Fisheries and Oceans for standard steel and aluminium buoys for marine navigational aid purposes.

### **1.2      PRIORITY OF DOCUMENTS**

When any discrepancy between the drawing, this specification and/or the contract is noted, the following order of priority is to be adhered to:

- 1)      Contract
- 2)      Specification
- 3)      Drawing

### **1.3      RELATED SPECIFICATIONS**

#### **1.3.1      Canadian Standards Association (CSA)**

- CSA G40.21      Structural Quality Steel
- CSA W47.1      Certifications of Companies for Fusion Welding of Steel
- CSA W48      Filler Metals and Allied Materials for Metal Arc Welding
- CSA W59      Welded Steel Construction (Metal-Arc Welding)

#### **1.3.2      American Society for Testing and Materials (ASTM)**

- ANSI/ASTM A36      Standard Specification for Structural Steel
- ANSI/ASTM A47      Standard Specification for Malleable Iron Castings
- ASTM B117      Standard Practice for Operating Salt Spray (Fog) Apparatus
- ANSI/ASTM D2200      Pictorial Surface Preparation Standards for Painting Steel Surfaces
- ASTM D522      Standard Test Methods for Mandrel Bend Test of Attached Organic Coatings

- ASTM D2794 Standard Test Method for Resistance of Organic Coatings to the Effects of Rapid Deformation (Impact)
- ASTM D4060 Standard Test Method for Abrasion Resistance of Organic Coatings by the Taber Abraser
- ASTM D4548 Standard Test Method for Anion-Cation Balance of Mixed Bed Ion-Exchange Resins
- ASTM G154 Standard Practice for Operating Fluorescent Light Apparatus for UV Exposure of Non-metallic Materials

## **1.4 INSPECTION**

### **1.4.1**

The Contractor shall be responsible for advising the Inspector and Technical Authority at least three days prior to:

- a) application of the tests and inspection specified herein; and
- b) completion of manufacture.

### **1.4.2**

All tests outlined in this specification shall be carried out in the presence of the Inspector, as shall any additional tests deemed necessary by the Inspector.

### **1.4.3**

The buoy will be inspected to ensure compliance with the drawings and specifications. Important dimensions, smoothness of finish and freedom from blemishes due to weld splatter, quality of welding, etc., will also be checked. The Contractor shall be required to remedy any aspect of the buoy's construction, which is unsatisfactory as decided by the Inspector and the Technical Authority.

### **1.4.4**

The buoy shall not be shipped from the contractor's works until it has been deemed satisfactory by the Inspector and the Technical Authority.

## **1.5 INSPECTION CERTIFICATION**

Certification documents supplied by the Inspector shall be filled out at the time of final inspection and signed by the Inspector and the Contractor (or his representative).

## **1.6 MARKINGS**

### **1.6.1 Word Marks**

The words CANADIAN COAST GUARD (DFO/MPO) GARDE CÔTIÈRE CANADIENNE 2xxx (year of manufacture) shall be inscribed on each buoy by metallic-arc-deposition. The letters shall not be less than fifty (50) mm tall and shall be located on the cover plate or similar position or as indicated on the drawing. The Contractor is to coordinate the details with the Technical Authority prior to implementation.

### **1.6.2 Serial Numbers**

Some buoys may be required to have serial numbers affixed in a like manner and if so this will be specified on the drawing or in the contract. Serial numbers, if called for, are to be obtained from and coordinated with the Technical Authority.

## **1.7 WARRANTY**

All buoys shall be warranted against faults in manufacturing for a period of twelve (12) months from the date of receipt of the buoy by the consignee unless otherwise specified in the contract.

## **1.8 SHOP DRAWINGS**

If the Contractor produces shop drawings as part of the manufacturing process, legible copies of these shop drawings (paper and PDF) shall be provided to the Technical Authority.



## **Chapter 2      MATERIAL**

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### **2.1      STEEL PLATE**

All steel plates used in buoy construction shall conform to either CSA Specification G40.21 260W or 260WT, ASTM Specification A36, or better. Steel which has corroded more than rust grade C (as shown in photograph C of ASTM D2200) shall not be used.

### **2.2      STRUCTURAL MEMBERS**

All steel structural members such as angles or bars used in buoy construction shall conform to CSA G40.21 300W or ASTM Specification A36. Steel which has corroded more than rust grade C (as shown in photograph C of ASTM D2200) shall not be used.

### **2.3      MISCELLANEOUS**

Material for minor components, other than as specified above, shall be as required on the individual buoy drawings.



## Chapter 3 WORKMANSHIP

### 3.1 GENERAL

The workmanship on the buoy shall be equal to the best structural and pressure vessel practices insofar as is consistent with the provisions herein. Should inspection reveal that workmanship of an inferior quality has been performed, the material affected by such inferior workmanship shall be removed and shall be replaced by approved material and workmanship at no cost to the Ministry.

### 3.2 METAL SHAPING

All metal plates for the shell, which require shaping in such a manner as would do injury to the material if done while cold, shall be uniformly heated and then shaped. All such plates shall be free from hammer marks, cracks, flaws, blisters, indentations and imperfections of any kind before being worked into the buoy.

### 3.3 FAIRNESS OF METAL HULLS

#### 3.3.1

Fairness is herein defined as the flatness of plating or, in the case of curved surfaces, the adherence to the radius of curvature required on the drawing.

#### 3.3.2

Fairness shall be measured using a one (1) m straight edge or, for curved surfaces, a template cut with the proper radius of curvature. The template shall have an arc length as specified in Table 3.1.

**Table 3.1 Arc Length of Fairness Template**

Radius of Curvature (r)	Arc Length
1.75 m or less	$1/6 \pi r$
Greater than 1.75 m	1 m

#### 3.3.3

The maximum unfairness when using the straight edge or template shall not be greater than six (6) mm where unfairness is defined as the maximum opening between the straight edge/template and the plating when the ends are contacting the plating or the average of the two end-distances when the centre is contacting the plating. Measurements are to be located so as to disclose the worst unfairness.

### **3.4 PROTRUDING EDGES**

All exposed edges shall be dressed or ground smooth to a radius of not less than 3 mm to avoid injury to servicing personnel, facilitate maintenance and provide a contour acceptable for adhesion of the coatings to be applied.

### **3.5 WELDING**

#### **3.5.1**

Steel buoy hulls shall be of metallic arc-welded construction throughout. Welding shall be performed by welders certified by the Canadian Welding Bureau (CWB) and qualified under the CSA Welding Qualification Code CSA W47.1 “Certification of Companies for Fusion Welding of Steel”.

In addition, welding must be done in accordance with the requirements of the applicable drawings and specifications. Before the commencement of any fabrication work, and upon request from the Inspection Authority, the Contractor must provide approved welding procedures and/or a list of welding personnel he intends to use in the performance of the Work. The list must identify the CWB welding procedure qualifications attained by each of the personnel listed and must be accompanied by a copy of each person's current CWB welding certification.

Manufacturers shall be prepared to offer proof of welding certifications.

#### **3.5.2**

Electrodes to be used on steel structures shall comply with CSA Specification W48.

#### **3.5.3**

All steel welds shall comply with CSA Specification W59. Defective welds are to be cut out and re-welded. No caulked welds will be acceptable.

#### **3.5.4**

Seams and butts of steel plating shall, in all cases, be neatly finished.

#### **3.5.5**

All fillet welds shall be at least double continuously welded.

#### **3.5.6**

In fabrication, rigid strongbacks shall be avoided. Turnbuckles and jacks shall be removed after tacking and before welding.

### **3.6 INTERIOR SURFACES**

The interior surfaces of the buoys shall be dry and free from all oil, grease, wax, paint, debris or other contaminants.



## **Chapter 4      TESTS**

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### **4.1      PRESSURE TESTS**

In the presence of the Inspector, the shell or body of metal buoy(s) shall be air tested to a pressure of seven (7) psi (49 kPa) for large (light) buoys. A pressure gauge shall be included in the pressure test system and shall indicate no loss of pressure within thirty (30) minutes. Holes for attaching pressure test pipes and gauges shall be drilled and tapped into metal buoy bodies, as indicated on the drawings, specified in the contract or as directed by the Technical Authority. On completion of the test to the satisfaction of the inspector and Technical Authority, such holes shall be closed using the appropriate pipe plugs and made watertight.

### **4.2      PROOF TESTS**

Upon completion of the buoys, the mooring and lifting lugs shall be tested to 2.5 times safe working load (SWL) with no permanent deformation. The SWL shall be as shown on the drawing or half the self-weight of the buoy, whichever is greater.