



Destination Code - Code destinataire	Destination Address - Adresse de la destination	Invoice Code - Code bur.-comptable	Invoice Address - Adresse de facturation
D - 1	NO DATA	I - 1	PAUL CHEFURKA 200 KENT ST. (STN 7036) OTTAWA, ON K1A 0E6

Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Unit Price/Prix unitaire		Plant/Usine	Delivery Req. Livraison Req.	Del. Offered Liv. offerte
						Destination	FOB/FAM			
1	STANDING OFFER FOR THE PURCHASE OF GMDSS EQUIPMENT FOR CANADIAN COAST GUARD VESSELS	D - 1	I - 1	24	Each	\$	\$		See Herein	

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## PART 1 - GENERAL INFORMATION

### 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 | Financial and Insurance Requirements: includes specific requirements that must be addressed by offerors; and  |
| Part 7 | 7A, Standing Offer, and 7B, Resulting Contract Clauses:   |
|        | 7A, includes the Standing Offer containing the offer from the Offeror and the applicable clauses and conditions;  |
|        | 7B, includes the clauses and conditions which will apply to any contract resulting from a call-up made pursuant to the Standing Offer.  |

The attachments include the Pricing Schedule, Delivery Addresses, the Statement of Work, the Technical Statement of Requirements, sample PWGSC-TPSGC 942, Call-up Against a Standing Offer form and the Evaluation Plan.

The requirement is subject to the provisions of the Agreement on Internal Trade (AIT). The World Trade Organization Agreement on Government Procurement (WTO-AGP), the North American Free Trade Agreement (NAFTA), the Canada-Peru Free Trade Agreement (CPGTA) and the Canada-Chile Free Trade Agreement (CCFTA) do not apply due to the nature of the requirement.

### 2. Summary

The Canadian Coast Guard (CCG) has a requirement to procure Global Maritime Distress Safety System (GMDSS) equipment to be installed Coast Guard vessels under the International Maritime Organization (IMO) Carriage Requirements. The equipment currently fitted on CCG vessels is no longer supported and has reached its end of life.

Public Works and Government Services Canada (PWGSC) intends to put in place a five (5) year National Individual Standing Offer (NISO), with an additional two (2) year option period, to procure the required GMDSS equipment. The NISO will also include provisions to obtain Maintenance Training for CCG technical staff.

As per the Integrity Provisions under section 01 of Standard Instructions 2006 and 2007, offerors must provide a list of all owners and/or Directors and other associated information as required. Refer to section 4.21 of the Supply Manual for additional information on the Integrity Provisions.

For services requirements, Offerors must provide the required information as detailed in article 2.3 of Part 2 of the Request for Standing Offers (RFSO), in order to comply with Treasury Board policies and directives on contracts awarded to former public servants.

The requirement is subject to a preference for Canadian goods and/or services.

### **3. Security Requirement**

There is no security requirement associated with this requirement.

### **4. 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.

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## PART 2 - OFFEROR INSTRUCTIONS

### 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 (2014-09-25) 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: 120 days

### 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.

Due to the nature of the Request for Standing Offers, transmission of offers by facsimile to PWGSC will not be accepted.

### 3. Enquiries - Request for Standing Offer

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.

### 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 Ontario.

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



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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

### 1. Offer Preparation Instructions

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

Section I: Technical Offer (three (3) hard copies and two (2) soft copies on CD);  
 Section II: Financial Offer (two (2) hard copies and two (2) soft copies on CD);  
 Section III: Certifications (one (1) hard copy)

If there is a discrepancy between the wording of the soft copy and the hard copy, the wording of the hard copy will have priority over the wording of the soft 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>). 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 bid, bidders should demonstrate their understanding of the requirements contained in the bid solicitation and explain how they will meet these requirements. Bidders should demonstrate their capability and describe their approach in a thorough, concise and clear manner for carrying out the work.

For the Rated Requirements of Annex D - Evaluation Plan (Section 1.3 - Technical Evaluation - Rated Requirements), the technical bid should address clearly and in sufficient depth the points that are subject to the evaluation criteria against which the bid will be evaluated. Simply repeating the statement contained in the bid solicitation is not sufficient. In order to facilitate the evaluation of the bid, Canada requests that bidders address and present topics in the order of the evaluation criteria under the same headings. To avoid duplication, bidders may refer to different sections of their bids by identifying the specific paragraph and page number where the subject topic has already been addressed.

#### Section II: Financial Offer

The offeror must submit their financial offer in accordance with Schedule 1 - Pricing Schedule. The total amount of Applicable Taxes must be shown separately.

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### **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**

The offeror must submit the certifications required under Part 5.

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## PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

- (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 offers.

### Evaluation of Price

1. The price of the offer will be evaluated as follows:
  - a. Canadian-based offerors must submit firm prices, Canadian customs duties and excise taxes included, and Applicable Taxes excluded.
  - b. foreign-based offerors must submit firm prices, Canadian customs duties, excise taxes and Applicable Taxes excluded. Canadian customs duties and excise taxes payable by Canada will be added, for evaluation purposes only, to the prices submitted by foreign-based offerors.
2. Unless the Request for Standing Offers (RFSO) specifically requires offers to be submitted in Canadian currency, offers submitted in foreign currency will be converted to Canadian currency for evaluation purposes. The rate given by the Bank of Canada in effect on the RFSO closing date, or on another date specified in the RFSO, will be applied as a conversion factor to the offers submitted in foreign currency.
3. Although Canada reserves the right to issue the Standing Offer either on an FOB plant or FOB destination, Canada requests that offerors provide prices FOB their plant or shipping point and FOB destination. Offers will be assessed on an FOB destination basis.
4. For the purpose of the RFSO, offerors with an address in Canada are considered Canadian-based offerors, and offerors with an address outside of Canada are considered foreign-based offerors.

**Reference Annex "D" Evaluation Plan for further details.**

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## PART 5 - CERTIFICATIONS

Offerors must provide the required certifications and associated 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 in carrying out any of its obligations under any resulting contracts, 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 may render the Offer non-responsive, may result in the setting aside of the Standing Offer or constitute a default under the Contract.

### 1. Certifications Required Precedent to 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.

#### 1.1 Integrity Provisions - Associated Information

By submitting an offer, the Offeror certifies that the Offeror and its Affiliates are in compliance with the provisions as stated in Section 01 Integrity Provisions - Offer of Standard 2006. The associated information required within the Integrity Provisions will assist Canada in confirming that the certifications are true.

#### 1.2 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 ([http://www.labour.gc.ca/eng/standards\\_equity/eq/emp/fcp/list/inelig.shtml](http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml)) available from Employment and Social Development Canada-Labour's website.

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.

### 2. Additional Certifications Precedent to Issuance of a Standing Offer

#### 2.1 Canadian Content Certification

This procurement is conditionally limited to Canadian goods and Canadian services.

Subject to the evaluation procedures contained in the bid solicitation, bidders acknowledge that only bids with a certification that the goods and services offered are Canadian goods and Canadian services, as defined in clause A3050T, may be considered.

Failure to provide this certification completed with the bid will result in the goods and services offered being treated as non-Canadian goods and non-Canadian services.

The Bidder certifies that:

( ) a minimum of 80 percent of the total bid price consist of Canadian goods and Canadian services as defined in paragraph 5 of clause A3050T.

For more information on how to determine the Canadian content for a mix of goods, a mix of services or a mix of goods and services, consult Annex 3.6.(9), Example 2, of the Supply Manual.

### 2.1.1 Canadian Content Definition

**1. Canadian good:** A good wholly manufactured or originating in Canada is considered a Canadian good. A product containing imported components may also be considered Canadian for the purpose of this policy when it has undergone sufficient change in Canada, in a manner that satisfies the definition specified under the North American Free Trade Agreement (NAFTA) Rules of Origin. For the purposes of this determination, the reference in the NAFTA Rules of Origin to "territory" is to be replaced with "Canada".(Consult Annex 3.6 (9) of the *Supply Manual*.)

**2. Canadian service:** A service provided by an individual based in Canada is considered a Canadian service. Where a requirement consists of only one service, which is being provided by more than one individual, the service will be considered Canadian if a minimum of 80 percent of the total bid price for the service is provided by individuals based in Canada.

**3. Variety of goods:** When requirements consist of more than one good, one of the two methods below is applied:

- a. aggregate evaluation: no less than 80 percent of the total bid price must consist of Canadian goods; or,
- b. item by item evaluation: in some cases, the bid evaluation may be conducted on an item-by-item basis and contracts may be awarded to more than one supplier. In these cases, suppliers will be asked to identify separately each item that meets the definition of Canadian goods.

**4. Variety of services:** For requirements consisting of more than one service, a minimum of 80 percent of the total bid price must be provided by individuals based in Canada.

**5. Mix of goods and services:** When requirements consist of a mix of goods and services, no less than 80 percent of the total bid price must consist of Canadian goods and services (as defined above).

For more information on how to determine the Canadian content for a mix of goods, a mix of services or a mix of goods and services, consult Annex 3.6 (9), Example 2, of the *Supply Manual*.

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**6. Other Canadian goods and services:** Textiles: Textiles are considered to be Canadian goods according to a modified rule of origin, copies of which are available from the Clothing and Textiles Division, Commercial and Consumer Products Directorate.

## PART 6 - FINANCIAL REQUIREMENTS

### 1. Financial Capability

**1.1 Financial Capability Requirement:** The Offeror must have the financial capability to fulfil this requirement. To determine the Offeror's financial capability, the Standing Offer Authority may, by written notice to the Offeror, require the submission of some or all of the financial information detailed below during the evaluation of offers. The Offeror must provide the following information to the Standing Offer Authority within fifteen (15) working days of the request or as specified by the Standing Offer Authority in the notice:

- a. Audited financial statements, if available, or the unaudited financial statements (prepared by the Offeror's outside accounting firm, if available, or prepared in-house if no external statements have been prepared) for the Offeror's last three fiscal years, or for the years that the Offeror has been in business if this is less than three years (including, as a minimum, the Balance Sheet, the Statement of Retained Earnings, the Income Statement and any notes to the statements).
- b. If the date of the financial statements in (a) above is more than five months before the date of the request for information by the Standing Offer Authority, the Offeror must also provide, unless this is prohibited by legislation for public companies, the last quarterly financial statements (consisting of a Balance Sheet and a year-to-date Income Statement), as of two months before the date on which the Standing Offer Authority requests this information.
- c. If the Offeror has not been in business for at least one full fiscal year, the following must be provided:
  - i. the opening Balance Sheet on commencement of business (in the case of a corporation, the date of incorporation); and
  - ii. the last quarterly financial statements (consisting of a Balance Sheet and a year-to-date Income Statement) as of two months before the date on which the Standing Offer Authority requests this information.
- d. A certification from the Chief Financial Officer or an authorized signing officer of the Offeror that the financial information provided is complete and accurate.
- e. A confirmation letter from all of the financial institution(s) that have provided short-term financing to the Offeror outlining the total of lines of credit granted to the Offeror and the amount of credit that remains available and not drawn upon as of one month prior to the date on which the Standing Offer Authority requests this information.

**1.2** If the Offeror is a joint venture, the financial information required by the Standing Offer Authority must be provided by each member of the joint venture.

**1.3** If the Offeror is a subsidiary of another company, then any financial information in 1. (a) to (e) above required by the Standing Offer Authority must be provided by the ultimate parent company. Provision of parent company financial information does not satisfy the requirement for the provision of the financial information of the Offeror, and the financial capability of a parent cannot be substituted for the financial capability of the Offeror itself unless an agreement by the parent company to sign a Parental Guarantee, as drawn up by Public Works and Government Services Canada (PWGSC), is provided with the required information.



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**1.4 Financial Information Already Provided to PWGSC:** The Offeror is not required to resubmit any financial information requested by the Standing Offer Authority that is already on file at PWGSC with the Contract Cost Analysis, Audit and Policy Directorate of the Policy, Risk, Integrity and Strategic Management Sector, provided that within the above-noted time frame:

- A. the Offeror identifies to the Standing Offer Authority in writing the specific information that is on file and the requirement for which this information was provided; and
- B. the Offeror authorizes the use of the information for this requirement.

It is the Offeror's responsibility to confirm with the Standing Offer Authority that this information is still on file with PWGSC.

**1.5 Other Information:** Canada reserves the right to request from the Offeror any other information that Canada requires to conduct a complete financial capability assessment of the Offeror.

**1.6 Confidentiality:** If the Offeror provides the information required above to Canada in confidence while indicating that the disclosed information is confidential, then Canada will treat the information in a confidential manner as permitted by the Access to Information Act, R.S., 1985, c. A-1, Section 20(1) (b) and (c).

**1.7 Security:** In determining the Offeror's financial capability to fulfil this requirement, Canada may consider any security the Offeror is capable of providing, at the Offeror's sole expense (for example, an irrevocable letter of credit from a registered financial institution drawn in favour of Canada, a performance guarantee from a third party or some other form of security, as determined by Canada).

## PART 7 - STANDING OFFER AND RESULTING CONTRACT CLAUSES

### A. STANDING OFFER

#### 1. Offer

The Offeror offers to fulfil the requirement in accordance with the Statement of Work at Annex A and the Technical Statement of Requirements at Annex B.

#### 2. Security Requirement

There is no security requirement associated with this requirement.

#### 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.

##### 3.1 General Conditions

2005 (2014-09-25) General Conditions - Standing Offers - Goods or Services, apply to and form part of the Standing Offer.

##### 3.2 Standing Offer 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 report will include, but not be limited to, the client issued Call-up Number, the item(s) ordered, quantity of each item ordered, the value of each Call-up and any comments regarding the individual Call-up.

The Offeror must provide this data in accordance with the reporting requirements detailed below. 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 PWGSC Standing Offer Authority.

The quarterly reporting periods are defined as follows:

1st quarter: April 1 to June 30;

2nd quarter: July 1 to September 30;

3rd quarter: October 1 to December 31;

4th quarter: January 1 to March 31.

The data must be submitted to the PWGSC Standing Offer Authority no later than 15 calendar days after the end of the reporting period.

#### 4. Term of Standing Offer

##### 4.1 Period of the Standing Offer

The period for making call-ups against the Standing Offer is for five (5) years from the date of award of Standing Offer, \_\_\_\_\_ (*dates to be inserted after Standing Offer award*).

##### 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) year period, from \_\_\_\_\_ to \_\_\_\_\_ 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.

The Offeror will be advised of the decision to authorize the use of the Standing Offer for an extended period by the Standing Offer Authority ninety (90) days before the expiry date of the Standing Offer. A revision to the Standing Offer will be issued by the Standing Offer Authority.

#### 5. Authorities

##### 5.1 PWGSC Standing Offer Authority

The PWGSC Standing Offer Authority is:

Public Works and Government Services Canada  
Acquisitions Branch  
Electronics, Simulators and Defence Systems Division  
11 Laurier Street, Place du Portage III, 8C2, Gatineau, QC K1A 0S5 Canada  
Attention: Kathie Eddy  
Telephone: 819-956-0768  
Facsimile: 819-956-5650  
E-mail: kathie.eddy@tpsgc-pwgsc.gc.ca

The PWGSC 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.

##### 5.2 Project Authority

The Project Authority for the Standing Offer is:

Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Organization: \_\_\_\_\_  
Address: \_\_\_\_\_

Telephone: \_\_\_\_ - \_\_\_\_ - \_\_\_\_  
Facsimile: \_\_\_\_ - \_\_\_\_ - \_\_\_\_

E-mail address: \_\_\_\_\_

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

### 5.3 CCG Requisition Authority

The CCG Requisition Authority for the Standing Offer is:

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Organization: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone: \_\_\_\_ - \_\_\_\_ - \_\_\_\_\_

Facsimile: \_\_\_\_ - \_\_\_\_ - \_\_\_\_\_

E-mail address: \_\_\_\_\_

The CCG Requisition Authority is responsible for reviewing and approving each Call-up, within the CCG delegation of authority, prior to issuance to the Standing Offer holder.

### 5.4 Offeror's Representative

**General Enquiries and Delivery Follow-up:** *(to be completed after Standing Offer award)*

Company Name: \_\_\_\_\_

Address: \_\_\_\_\_

Contact Name: \_\_\_\_\_

Position: \_\_\_\_\_

Telephone: \_\_\_\_\_

Facsimile: \_\_\_\_\_

E-mail: \_\_\_\_\_

## 6. Identified Users

The Identified User authorized to make call-ups against the Standing Offer is the **Canadian Coast Guard**.

All call-ups against the Standing Offer will be generated by the **CCG Requisition Authority**.

## 7. Call-up Procedures

The CCG regional representative will prepare the Call-up document and submit to the CCG Requisition Authority for authorization, up to \$25,000.00 CAD (Goods and Services Tax or Harmonized Sales Tax included). The Call-up will then be forwarded to the supplier by e-mail, with a c.c. to the PWGSC Standing Offer Authority.

Any call up over the \$25,000.00 CAD (Goods and Services Tax or Harmonized Sales Tax included) limit must also be approved by the PWGSC Standing Offer Authority, as well as the CCG Requisition Authority, prior to submitting to the supplier.

## 8. 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.

## 9. Limitation of Call-ups

Call-ups above **\$25,000.00 CAD** (Goods and Services Tax or Harmonized Sales Tax included) will be authorized by the Standing Offer Authority in accordance with the departmental delegation of authority.

Individual Call-ups shall not exceed **\$1,000,000.00 CAD** (Goods and Services Tax or Harmonized Sales Tax included).

## 10. Financial Limitation - Total

The total cost to Canada resulting from call-ups against the Standing Offer must not exceed the sum of **\$2,000,000.00 CAD** (Goods and Services Tax or Harmonized Sales Tax included) unless otherwise authorized in writing by the PWGSC 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 PWGSC Standing Offer Authority as to the adequacy of this sum when 75 percent of this amount has been committed, or 4 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 PWGSC Standing Offer Authority.

## 11. 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, including its schedules;
- c) the general conditions 2005 (2014-09-25), General Conditions - Standing Offers - Goods or Services;
- d) the general conditions 2010A (2014-11-27), General Conditions - Goods (Medium Complexity);
- e) the supplemental general conditions 4001 (2013-01-28), Hardware Purchase, Lease and Maintenance;
- f) the supplemental general conditions 4003 (2010-08-16) Licensed Software;
- g) Annex A, Statement of Work;
- h) Annex B, Technical Statement of Requirements
- i) the Offeror's offer dated \_\_\_\_\_ (*insert date of offer*).

## 12. Certifications

### 12.1 Compliance

---

The continuous compliance with the certifications provided by the Offeror with its offer and the ongoing cooperation in providing associated information are conditions of issuance of the Standing Offer (SO). 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. If the Offeror does not comply with any certification, fails to provide the associated information, or if it is determined that any certification made by the Offeror in its offer is untrue, whether made knowingly or unknowingly, Canada has the right to terminate any resulting contract for default and set aside the Standing Offer.

### **13. 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 Ontario.

---

**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.

**1. Statement of Work**

The Contractor must provide the items or perform the Work described in the call-up against the Standing Offer.

**2. Standard Clauses and Conditions****2.1 General Conditions**

2010A (2014-11-27), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

**2.2 Supplemental General Conditions**

4001 (2013-01-28) Hardware Purchase, Lease and Maintenance, apply to and form part of the Contract.

4003 (2010-08-16) Licensed Software, apply to and form part of the Contract.

**3. Term of Contract****3.1 Delivery Date**

Delivery must be completed in accordance with the call-up against the Standing Offer.

**4. Payment****4.1 Basis of Payment - Firm Unit Prices**

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 Schedule 1. Customs duties are included and Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

**4.2 Limitation of Price**

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 Standing Offer Authority before their incorporation into the Work.

**4.3 Method of Payment - Multiple Payments**

Canada will pay the Contractor upon completion and delivery of units in accordance with the payment provisions of the Contract if:

(a) an accurate and complete invoice and any other documents required by the Contract have been submitted in accordance with the invoicing instructions

provided in the Contract;

(b) all such documents have been verified by Canada; and

(c) the Work delivered has been accepted by Canada.

#### 4.4 Discretionary Audit - Non-commercial Goods and/or Services

The estimated amount of profit included in the Contractor's price or rate certification is subject to audit by Canada, before or after payment is made to the Contractor under the conditions of the Contract. The purpose of the audit would be to determine whether the actual profit earned on a single contract if only one exists, or the aggregate of actual profit earned by the Contractor on a series of negotiated firm price and fixed-time rate contracts performed during a particular period selected, is reasonable and justifiable based on the estimated amount of profit included in earlier price or rate certification(s). If the audit demonstrates that the actual profit is not reasonable and justifiable, as defined above, the Contractor must repay Canada the amount found to be in excess.

### 5. Invoicing Instructions

**5.1** 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.

**5.2** Invoices must be distributed as follows:

(a) The original and one (1) copy must be forwarded to:

Canadian Coast Guard

200 Kent Street

Ottawa, Ontario, Canada K1A 0E6

Station: \_\_\_\_\_

Attention: \_\_\_\_\_ (to be inserted after Standing Offer award)  
for certification and payment;

(b) One (1) copy must be forwarded to the appropriate consignee(s) and;

(c) One (1) copy must be forwarded to the Standing Offer Authority.

### 6. Delivery, Inspection and Acceptance

#### 6.1 Excess Goods

The quantity of goods to be delivered by the Contractor is specified in the call-up against the Standing Offer. The Contractor remains liable for any shipment in excess of that quantity whether the excess quantity is shipped voluntarily or as a result of an error by the Contractor. Canada will not make any payment to the Contractor for goods shipped in excess of the specified quantity. Canada will not return the said goods to the Contractor unless the Contractor agrees to pay for all the costs related to the return, including but not limited to administrative, shipping and handling costs. Canada will have the right to deduct such costs from any invoice submitted by the Contractor.



## 6.2 Incomplete Assemblies

The Contractor must not ship incomplete assemblies unless the authorization for such shipment has been obtained before from the Contracting Authority.

## 6.3 Marking

The Contractor must ensure that the manufacturer's name and part number are clearly stamped or etched on each item for positive identification purposes.

## 6.4 Labelling

The Contractor must ensure that the manufacturer's and specification numbers appear on each item, either printed on the container or on an adhesive label of highest commercial standard affixed to the container.

## 6.5 Inspection and Acceptance

The Consignee at destination is the Inspection Authority. All reports, deliverable items, documents, goods and all services rendered under the Contract are subject to inspection by the Inspection Authority or representative. Should any report, document, good or service not be in accordance with the requirements of the Statement of Work and to the satisfaction of the Inspection Authority, as submitted, the Inspection Authority will have the right to reject it or require its correction at the sole expense of the Contractor before recommending payment.

## 7. Shipping Instructions - Delivery at Destination

Goods must be consigned to the destination specified in the Call-up and delivered:

Delivered Duty Paid (DDP), (destination address to be included in the Call-up), Incoterms 2000 for shipments from a commercial contractor.

The Contractor must ship the goods prepaid, including all delivery charges to (destination address to be included in the Call-up). Prepaid transportation costs must be shown as a separate item on the invoice, supported by a certified copy of the prepaid transportation bill of lading.

## 8. Shipment of Hazardous Materials

The Contractor must label and ship goods falling within the Hazardous Products Act, R.S.C. 1985, c. H-3 and regulation(s) in accordance with the said Act and regulation(s) accompanied by the required material safety data sheet(s) completed in either English or French. The label must clearly identify the contents of the hazardous material and the material safety data sheet must explain what those hazards are.

## 9. Use and Translation of Written Material

- 9.1. Unless provided otherwise in the Contract, copyright in any written material used, produced or delivered under the Contract belongs to its author or rightful owner. Canada has the right to use, copy and disclose, for government purposes, the written material related to the Work that is delivered to Canada.

- 9.2.** If the Contract does not require the delivery of any written material in both of Canada's official languages, Canada may translate the written material into the other official language. The Contractor acknowledges that Canada owns the rights on the translation and that Canada is under no obligation to provide the translation to the Contractor. Canada agrees that any translation must include any copyright and any proprietary right notice that was part of the original. Canada acknowledges that the Contractor is not responsible for any technical errors or other problems that may arise as a result of the translation.

Solicitation No. - N° de l'invitation

F7048-140004/B

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur

103qf

Client Ref. No. - N° de réf. du client

F7048-140004

File No. - N° du dossier

103qfF7048-140004

CCC No./N° CCC - FMS No./N° VME

---

## **Appendix A - Delivery Addresses**

Goods must be consigned and delivered to the destination specified on each Call-up document in accordance with Incoterms 2000 "DDP Delivered Duty Paid":

### **Consignee # 1**

Department of Fisheries and Oceans  
C/O Supply Depot  
Southside Rd PO Box 5867  
St. John's, NL Canada  
A1C 5X1

### **Consignee # 2**

Canadian Coast Guard Stores OSC  
Warehouse Door # 1  
13 Akerley Blvd.  
Dartmouth, NS  
B3B 1J6

### **Consignee # 3**

Department of Fisheries and Oceans  
Ateliers Entretien  
101 Boul Champlain  
Quebec, Quebec  
G1K 7Y7

### **Consignee # 4**

Canadian Coast Guard  
Marine Engineering  
867 Lakeshore Road  
Burlington, Ontario  
L7R 4A6

Attn: \_\_\_\_\_

### **Consignee # 5**

Canadian Coast Guard  
9860 West Saanich Road  
Sidney, BC  
V8L 4B2

Attn: \_\_\_\_\_

**Schedule 1**  
**Pricing Schedule**

**Global Maritime Distress Safety System**

**F7048-140004**



## **SCHEDULE 1 - PRICING SCHEDULE**

All prices included herein are provided in the following currency \_\_\_\_\_ (customs duties included and Goods and Services Tax or Harmonized Sales Tax is extra, if applicable).

<b>Ref.</b>	<b>Item</b>	<b>Quantity</b>	<b>Estimated Delivery Time</b>	<b>Year 1 Pricing</b>	<b>Year 2 Pricing</b>	<b>Year 3 Pricing</b>	<b>Year 4 Pricing</b>	<b>Year 5 Pricing</b>
3.2.2	VHF radiotelephony with DSC Class D	1						
3.2.3	VHF radiotelephony with DSC Class A	1						
3.2.4	MF/HF radiotelephony, mid power (~250 W) with DSC Class A	1						
3.2.4	MF/HF radiotelephony, high power (~500 W) with DSC Class A	1						
3.2.5	MF/HF radiotelephony (~150 W)	1						
3.2.6	MF/HF Six Channel DSC Watch Receiver	1						
3.2.7	Radio Telex/NBDP	1						
3.2.8	Inmarsat Ship Earth Station (SES) with Enhanced Group Calling (EGC) receiver	1						
3.2.9	Power Supplies and Battery Charger	Price for all items required for one system for Sea Area A4						
3.2.10	Console	Price for all items required for one system for Sea						





Fisheries and Oceans  
Canada

Pêches et Océans  
Canada

Canadian  
Coast Guard

Garde côtière  
canadienne

3370558

# *Global Maritime Distress and Safety System Statement of Work*



*Canadian Coast Guard*

**SOW**

Canada 



**Published under the Authority of:**

Integrated Technical Services Directorate  
Fisheries and Oceans Canada  
Canadian Coast Guard  
Ottawa, Ontario

K1A 0E6

3077227

GLOBAL MARITIME DISTRESS AND SAFETY SYSTEM – STATEMENT  
OF WORK

3370558 FINAL – AUG 2014  
REVISED JAN 2015

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EKME# 3370558

Document template : English  
Print Format: Double Sided  
Last revision: August 2010  
Compatibility: Word 97 & 2002 (XP)

Available on CCG Intranet site at:  
<http://intra.coast-guard.ca/home>

Disponible en français



Printed on recycled paper

## Document Control

### Record of Amendments

#	Date	Description	Initials
1	07/10/2013	1st draft	E.I.
2	02/20/2014	2 <sup>nd</sup> Draft	P.C.
3	03/21/2014	3 <sup>rd</sup> Draft	P.C.
4	04/11/2014	4 <sup>th</sup> Draft	P.C.
5	05/07/2014	Final	P.C.
6	08/28/2014	Rework to correct language for a Standing Offer	P.C.

### Approvals

Office of Primary Interest (OPI)	Paul Chefurka	Approved: _____ Date: _____
Asset Class Manager Electronics and Informatics	Andrew McGregor	Approved: _____ Date: _____
Director, Electronics and Informatics	Sam Ryan	Approved: _____ Date: _____
Director General, Integrated Technical Services	Michel Cécire	Approved: _____ Date: _____

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## **Document Management**

### **1. Authority**

This document is issued by the Director General, Integrated Technical Services, CCG's National Technical Authority under delegation from the Deputy Minister, Fisheries and Oceans and the Commissioner of the Canadian Coast Guard.

### **2. Responsibility**

- a) The Project Manager, GMDSS Procurement Project is responsible for:
  - ii) the creation and promulgation of the document; and
  - iii) the identification of an Office of Primary Interest (OPI) who is responsible for the coordination and the content of the document.
- b) The OPI is responsible for:
  - i) the validity and accuracy of the content;
  - iv) the availability of this information;
  - v) the update as needed;
  - vi) the periodical revision; and
  - vii) the follow-up of all requests, comments and/or suggestions received by the originator.

### **3. Inquiries and/or Revision Requests**

All inquiries regarding this document, including suggestions for revision and requests for interpretation shall be addressed to:

Position Title: Project Manager, GMDSS Procurement Project  
Address: 200 Kent St.  
Ottawa, ON  
Stn 7S036  
K1A 0E6

All requests should:

- i) be clear and concise; and
- ii) reference the specific Chapter, Section, Figure or Table.

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## Foreword

### 3. Scope

This Statement of Work (SOW) details the activities and deliverables associated with the procurement of Global Maritime Distress and Safety System (GMDSS) equipment to be installed on Coast Guard vessels across Canada. The technical requirements of the equipment to be procured under this Statement of Work are given in the associated document, “GMDSS Technical Statement of Requirements”, which will hereinafter be referred as the TSOR.

Throughout this SOW and its associated specification the words “*shall*” or “must” or “will” are mandatory, “[highly] desirable,” “may”, and “should” are permissive.

### 4. Purpose

GMDSS equipment is required on CCG vessels under the International Maritime Organization (IMO) Carriage Requirements detailed in the International Convention for the Safety of Life at Sea (SOLAS) of which Canada is a participating member. The GMDSS equipment now fitted on CCG vessels is no longer supported and has reached its end of life.

GMDSS equipment required for various vessels operating in various Sea Areas is detailed in Table 1 – CCG Radiocommunications and GMDSS Equipment Configuration of the TSOR.



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## Chapter 1 DELIVERABLES

---

### 1.1 EQUIPMENT

#### 1.1.1 Equipment Supplied

- 1.1.1.1 The Vendor *shall* supply equipment as detailed in Table 1 – CCG Radiocommunication and GMDSS Equipment Configuration of the TSOR, complete with all installation instructions, service and operator manuals, materials, parts and assemblies necessary for installation and integration.
- 1.1.1.2 The supplied equipment shall be available for purchase either as individual components or as systems pre-mounted in consoles.
- 1.1.1.3 The following items will be handled as a normal part of CCG Regional workshop responsibilities, and are not included in this requirement: cabling between separated units; reserve source of power batteries; and antennas.
- 1.1.1.4 Each component of the GMDSS configuration *shall* be sourced from the same manufacturer for the duration of the Standing Offer.

### 1.2 DOCUMENTATION & DATA

#### 1.2.1 General

- 1.2.1.1 All documentation developed or supplied under this Standing Offer *shall* be in reproducible hard copy and native electronic format (Microsoft Word, Excel, etc., and Autocad for all drawings).
- 1.2.1.2 The Vendor *shall* provide all documentation developed or supplied for this procurement in equally accurate Canadian English and Canadian French languages.
- 1.2.1.3 In addition to the requirement set out in section 3.2.1.1, installation instructions, service and operator manuals *shall* be supplied in searchable PDF format.
- 1.2.1.4 Applicable operator manuals *shall* be supplied in both hard copy and electronic formats with the purchase of each unit.

## 1.2.2 Maintenance

- 1.2.2.1 The commercial documentation supplied with the equipment *shall* identify all necessary corrective and preventative maintenance tasks or procedures.
- 1.2.2.2 The commercial documentation supplied with the equipment shall identify any special tools and test equipment required for the maintenance of the GMDSS equipment. “Special tools and test equipment” is defined as those tools which are of such a specialized nature that their use is particular to the item being procured, and includes either single or multi-purpose test units engineered, designed fabricated or modified to meet the test requirements of the equipment.
- 1.2.2.3 The commercial documentation supplied with the equipment shall identify any recommended spare parts, including Lowest Replaceable Unit (LRU) components, which will be required to maintain the GMDSS system.

## 1.3 TECHNICAL TRAINING

### 1.3.1 Maintenance Training

- 1.3.1.1 The Vendor *shall* be able to provide a Commercial Off The Shelf (COTS) maintenance training course, to be delivered by the vendor’s representatives to the electronics maintenance staff of CCG, all of whom are qualified, experienced electronic technicians and technologists.
- 1.3.1.2 The course shall meet the following criteria:
- Class size shall be up to eight (8) students;
  - The training course shall be scheduled for normal business hours with a maximum of five and one half (5.5) hours of class time per day;
  - The course shall last no longer than five (5) working days; and
  - The course shall be offered at the CCG College, in Sydney, NS.
  - Travel and living costs for the vendor’s representatives shall be included in the course price;
  - The course shall be available in both of Canada’s official languages, French and English;
  - Each individual course shall be delivered in one of Canada’s two official languages;
  - The choice of language for the course shall be at the discretion of CCG; and
  - Courseware shall be treated as documentation under the provisions set out in the General Conditions





Fisheries and Oceans  
Canada

Pêches et Océans  
Canada

Canadian  
Coast Guard

Garde côtière  
canadienne

EKME# 2840758

# *Global Maritime Distress and Safety System Technical Statement of Requirement*



*Canadian Coast Guard*

**TSOR**

Canada 

**Published under the Authority of:**

Integrated Technical Services Directorate  
Fisheries and Oceans Canada  
Canadian Coast Guard  
Ottawa, Ontario

K1A 0E6

EKME# 2840758  
GMDSS – TECHNICAL STATEMENT OF REQUIREMENTS

VERSION 3 – NOVEMBER 2014

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Available on CCG Intranet site at:  
<http://intra.coast-guard.ca/ITS/Publications>

Document template : English  
Print Format: Double Sided  
Last revision: Sept 01, 2004  
Compatibility: Word 97 & 2002 (XP)

Disponible en français : **MGCE No 3098326**



Printed on recycled paper

## Document Control

### Record of Amendments

#	Date	Description	Initials
1	April 08, 2014	Version 2 – Peer review edits	AD
2	November 12, 2014	Version 3 – PWGSC review edits	AD

### Approvals

Office of Primary Interest (OPI)	Andrew de Haan	Approved: _____
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Ship Electronics		Date: _____
Director	Sam Ryan	Approved: _____
Electronics and Informatics		Date: _____
Director General	Michel Cécire	Approved: _____
Integrated Technical Services		Date: _____

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## Chapter 1      SCOPE AND BACKGROUND

---

### 1.1      SCOPE

- 1.1.1. The intent of this document is to present the technical requirements for Commercial-Off-The-Shelf (COTS) equipment for Global Maritime Distress and Safety System (GMDSS) equipment for Canadian Coast Guard (CCG) Vessels.
- 1.1.2. This document is to be used in conjunction with the attached Statement of Work (SOW) during the procurement process.

### 1.2      BACKGROUND

- 1.2.1. Depending on a vessel's registered voyage class in a given area, CCG ships are required to carry radiocommunication equipment according to the following list of regulations:
  - a) Canada Shipping Act (CSA), 2001
  - b) Arctic Waters Pollution Prevention Act
  - c) Agreement between Canada and the United States of America for promotion of safety on the Great Lakes by means of radio (Great Lakes Agreement)
  - d) Safety of Life at Sea Convention (SOLAS)
- 1.2.2. There are four "Sea Areas" defined by Individual governments:
  - a) Sea Area A1: within range of Very High Frequency (VHF) Digital Selective Calling (DSC) coast stations (40 nautical miles)
  - b) Sea Area A2: (not declared in Canada) within range of shore-based MF/HF DSC coast station (150 nautical miles) excluding sea areas A1
  - c) Sea Area A3: within the coverage of an Inmarsat geostationary satellite (approximately 70°N to 70°S) excluding sea areas A1 & A2
  - d) Sea Area A4: the remaining areas outside sea areas A1, A2 & A3 (polar regions)
- 1.2.3. In Canada, VHF coverage also includes the following areas:
  - a) Great Lakes
  - b) Saguenay River downstream from Chicoutimi
  - c) St. Lawrence River as far seaward as a straight line drawn from

- d) Cap-des-Rosiers to West Point, Anticosti Island, and
  - e) from Anticosti Island to the north shore of the St. Lawrence River along the meridian of longitude 63° west
  - f) Puget Sound, State of Washington, U.S.A.; or
  - g) All waters that are within a coverage radius of a CCG or U.S. Coast Guard radio station providing a continuous maritime mobile distress and safety service on frequency 156.8 MHz (channel 16).
- 1.2.4. Canada requires GMDSS equipment on CCG Vessels for domestic Canadian voyages in Sea Area A1, and VHF coverage areas, as well as Sea Area A3. Canada also requires GMDSS equipment on CCG vessels for International SOLAS voyages in Sea Area A3 and A4.
- 1.2.5. At a minimum, the GMDSS equipment configurations procured by Canada for CCG vessels ***shall*** meet the carriage requirements listed in the regulations for the areas in 1.2.4.

## Chapter 2      EQUIPMENT CONFIGURATIONS

---

- 2.1. The CCG fleet is composed of many different vessels of various size, weight and voyage classifications. In order to meet the various International and Domestic regulations as well as CCG Operations directorate requirements, a number of equipment configurations are required.
- 2.1.1. Configuration 1: Small Vessels, VHF Coverage area. This configuration is for vessels more than eight (8) metres but less than twenty (20) metres in length. These vessels operate in Canadian VHF Coverage Areas.
  - 2.1.2. Configuration 2: Large Vessels, VHF Coverage and Sea Area A1. This configuration is for vessels more than twenty (20) metres in length. These vessels operate in VHF Coverage Areas or Sea Area A1.
  - 2.1.3. Configuration 3: Sea Area A3 Domestic. This configuration is for vessels that operate in Sea Area A3 in Canadian waters.
  - 2.1.4. Configuration 4: Sea Area A3 International. This configuration is for vessels that operate in Sea Area A3, outside Canadian waters.
  - 2.1.5. Configuration 5: Sea Area A4 International. This configuration is for vessels operating in Sea Area A4 and outside Canadian waters.
- 2.2. Table 1 outlines the equipment comprising base level configurations that are typically fitted on a ship as a system. Equipment listed as “Vessel Specific Additional Equipment as Needed” will be used to meet individual vessel requirements. Paragraph numbers in column “Ref” refer to paragraphs where Specifications for individual equipment may be found.

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Table 1: CCG Radiocommunications and GMDSS Equipment Configurations

Ref.	Equipment	Configuration 1: Small Vessels, VHF Coverage Area	Configuration 2: Large Vessels, VHF Coverage Area, Sea Area A1	Configuration 3: Sea Area A3 Domestic	Configuration 4: Sea Area A3 International	Configuration 5: Sea Area A4 International
Base Level Configuration						
3.2.2	VHF radiotelephony with DSC Class D	X				
3.2.2	VHF radiotelephony with DSC Class D(duplicated) <sup>4</sup>	X				
3.2.3	VHF radiotelephony with DSC Class A		X	X	X	X
3.2.3	VHF radiotelephony with DSC Class A(duplicated) <sup>4</sup>		X	X	X	X
3.2.4	MF/HF radiotelephony, mid power (~250 W) with DSC Class A			X	X	X
3.2.4	MF/HF radiotelephony, high power (~500 W) with DSC Class A (duplicated) <sup>4</sup>					X
3.2.6	MF/HF Six Channel DSC Watch Receiver				X	X
3.2.7	Radio Telex/NBDP				X	X
3.2.7	Radio Telex/NBDP (duplicated) <sup>4</sup>					X
3.2.8	Inmarsat Ship Earth Station (SES) with Enhanced Group Calling (EGC) receiver			X		X <sup>1</sup>
3.2.8	Inmarsat Ship Earth Station (SES) with Enhanced Group Calling (EGC) receiver (Duplicated) <sup>4</sup>				X	
3.2.9	Power Supplies and Battery Charger		X	X	X	X
3.2.9	Power Supplies and Battery Charger (Duplicated) <sup>4</sup>				X	X

		Vessel Specific Additional Equipment as Needed						
3.2.9	Power Supplies		X		X		X	X
3.2.2	VHF radiotelephony with DSC Class D				X <sup>1</sup>		X <sup>1</sup>	X <sup>1</sup>
3.2.5	MF/HF radiotelephony (~150 W)		X <sup>1</sup>		X <sup>1</sup>		X <sup>1</sup>	
3.2.10	Console				X		X	X
3.2.11	Navtex Receiver		X <sup>1</sup>		X		X	X
3.2.12	Float-Free satellite EPIRB 406 MHz		X		X		X	X
3.2.13	Search and Rescue Transponder 9GHz				X <sup>2</sup>		X <sup>2</sup>	X <sup>2</sup>
3.2.14	Handheld GMDSS VHF Lifeboat Transceiver				X <sup>3</sup>		X <sup>3</sup>	X <sup>3</sup>
3.2.1.1	Radiotelephone Accessories		X		X		X	X

- Note:* 1 Additional radiocommunications equipment may be required on vessels due to operational requirements
- Note:* 2 One Search and Rescue Transponder (SART) is required for a CCG ship 300 GT or over but under 500 GT and greater than 20 metres in length. Two SARTS are required for a CCG ship 500 GT or over
- Note:* 3 Two Handheld GMDSS VHF Lifeboat Transceivers are required for a CCG ship 300 GT or over but under 500 GT. Three Handheld GMDSS VHF Lifeboat Transceivers are required for a CCG ship 500 GT or over
- Note:* 4 Duplicated means a function is duplicated to comply with duplication of equipment requirement



## Chapter 3 REQUIREMENTS

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Radio equipment required to be carried on Canadian vessels in domestic waters is subject to regulations pursuant to the Great Lakes Agreement, the Canada Shipping Act (CSA 2001), the Arctic Waters Pollution Prevention Act and the Radiocommunication Act. Canadian vessels sailing in international waters are subject to the International Convention for Safety of Life at Sea. Equipment supplied shall be approved by a competent authority as complying with appropriate standards set out in SOLAS and CSA 2001 regulations and possess a record of Industry Canada certification.

In addition to meeting these equipment performance requirements, Canada has requirements that are detailed herein.

### 3.1 REGULATORY REQUIREMENTS

Transport Canada is responsible for enforcing the Great Lakes Agreement, CSA 2001, and Arctic Waters Pollution Prevention Act regulations relating to radio equipment. GMDSS and radiocommunication equipment requires approval from Transport Canada before equipment receives Industry Canada certification.

- 3.1.1. Transmitting radio equipment **shall** be certified by Industry Canada and possess a Technical Acceptance Certificate (TAC).
- 3.1.2. Equipment **shall** be approved by Transport Canada and comply with the appropriate standards published by the International Maritime Organization (IMO), referenced by SOLAS and CSA 2001.

*Note: Use the most current pertinent version of the International Maritime Organization (IMO), International Electrotechnical Commission (IEC), Maritime Safety Commission (MSC), and Radio Standards Specification (RSS) publications in Table 2 for purposes of this TSOR.*

**Table 2: Applicable Standards for Requirements**

Type of Equipment	Industry Canada	Transport Canada and SOLAS	
	Testing Standards	Performance Standards	Testing Standards
VHF radiotelephony with DSC Class D	RSS-182	N/A	EN 301 025 or IEC 62238
VHF radiotelephony with DSC Class A	RSS-182	IMO A.803(19)	IEC 61097-3, 7, 8
MF/HF radiotelephony	RSS-181	N/A	N/A
MF/HF radiotelephony with DSC Class A and Radio Telex/NBDP	RSS-288	IMO A.806(19)	IEC 61097-3, 8, 9 MSC 148(77)
DSC Watchkeeping receivers in the maritime MF/HF and VHF bands	N/A	IMO A.803(19), A.806(19)	IEC 61097-8
Inmarsat C Ship Earth Station (SES) with Enhanced Group Calling (EGC) receiver	N/A	IMO A.807(19)	IEC 61097-4
Navtex Receiver	RSS-288	MSC.148(77)	IEC 61097-6
Float-Free satellite Emergency Position Indicating Radiobeacon (EPIRB) 406 MHz	RSS-287	IMO A.810(19), A.660(16), A.662(16)	IEC 61097-2
Survival Craft Search and Rescue Transponders (SART) in the Band 9.2-9.5 GHz	RSS-288	IMO.802(19)	IEC 61097-1
Handheld GMDSS VHF Transceiver	RSS-182	MSC.149(77)	IEC 61097-12

*Note: See Appendix A for document descriptions.*

## 3.2 TECHNICAL REQUIREMENTS

### 3.2.1 Commonality and Shared Functionality

#### 3.2.1.1 Radiotelephone and Accessories

- 3.2.1.1.1. Class A DSC radios, excluding handhelds, **should** incorporate a 120 second (minimum) record and replay function.
- 3.2.1.1.2. VHF DSC radios **shall** incorporate a built in watch receiver for monitoring DSC channel 70.
- 3.2.1.1.3. VHF radios **shall** have frequency allocation selection modes for Canadian, US and International channels.
- 3.2.1.1.4. Telephone handsets **shall** include a push to talk switch, earpiece and mouthpiece microphone.
- 3.2.1.1.5. Hand held speaker-microphones **shall** include a push to talk switch, internal speaker and microphone.

- 3.2.1.1.6. A remote control station **shall** include squelch, volume, channel selection and push to talk functions.
- 3.2.1.1.7. Telephone handsets, hand held speaker-microphones and remote control stations **should** have common interfaces and be interchangeable between all VHF and MF/HF radiotelephones provided.
- 3.2.1.1.8. Telephone handsets and hand held speaker-microphones **shall** be replaceable with no tools required.
- 3.2.1.1.9. All radios **shall** include an interface for an external 8 ohm speaker.

### **3.2.1.2      Narrow Band Direct Printing (NBDP)/Telex and SES**

- 3.2.1.2.1. The NBDP/Telex system and the Ship Earth Station (SES) **shall** use identical console hardware and printers.
- 3.2.1.2.2. The Enhanced Group Calling (EGC) equipment **shall** be combined with the SES.

### **3.2.1.3      Maritime Mobile Service Identity (MMSI)**

- 3.2.1.3.1. Self-identification data (MMSI) **shall** be stored in equipment in a manner that makes it impossible for the operator to change this data.
- 3.2.1.3.2. MMSI data **shall** be changeable by qualified CCG technical personnel at the installed location.

### **3.2.1.4      Form**

- 3.2.1.4.1. Equipment **shall** be mountable in contractor supplied consoles (SART, Emergency Position Indicating Radiobeacon (EPIRB), Navtex, Handheld GMDSS VHF Lifeboat Transceiver excepted).
- 3.2.1.4.2. The Contractor **shall** provide means for bulkhead and/or table top equipment mounting.
- 3.2.1.4.3. Equipment **should** be constructed so that it is readily accessible for inspection and on-board maintenance purposes.

### **3.2.1.5      Interfaces**

- 3.2.1.5.1. Equipment interfaces for electronic position-fixing and position and time information **should** conform to IEC 61162-2, Maritime navigation and radiocommunication equipment and systems – Digital interfaces – Part 2: Single talker and multiple listeners, high-speed transmission.

- 3.2.1.5.2. System components **should** integrate with third party components using IEC 61162-3, Maritime Navigation and Radiocommunication Equipment and Systems - Digital interfaces - Part 3: Serial data instrument Network.
- 3.2.1.5.3. System components **should** integrate with third party components using IEC 61162-450 Maritime Navigation and Radiocommunication Equipment and Systems - Digital interfaces - Part 450: Multiple talkers and multiple listeners - Ethernet Interconnection.
- 3.2.1.5.4. System components **should** provide third party integration and plug-and-play network configuration by utilizing open Ethernet network standards such as:
  - a. Institute of Electrical and Electronics Engineers (IEEE) standard 802.3 Carrier Sense Multiple Access with Collision Detection (CSMA/CD) Access Method and Physical Layer Specifications (Ethernet).
  - b. Simple Network Management Protocol (SNMP)
  - c. Simple Service Discovery Protocol (SSDP)
  - d. Dynamic Host Configuration Protocol (DHCP).
  - e. Service Location Protocol (SLP)
  - f. Dynamic allocation of Internet Protocol version four (IPv4) and/or Internet Protocol version six (IPv6) addresses
- 3.2.1.5.5. Tools and test equipment such as service cables and diagnostic software **should** interface with all GMDSS radio communications equipment.
- 3.2.1.5.6. All equipment (SART, EPIRB, handheld GMDSS VHF lifeboat transceiver, battery chargers, VHF radiotelephone with DSC class D excepted) **should** operate within 10 VDC to 30 VDC power (nominal).
- 3.2.1.5.7. Equipment **shall** be equipped with a chassis ground that is isolated from the Direct Current (DC) supply.

### 3.2.1.6 Fault Diagnosis and Servicing

- 3.2.1.6.1. System maintenance philosophy and maintenance task performance **shall** be “repair by replacement”.
- 3.2.1.6.2. Equipment **shall** contain built-in diagnostic software and hardware to assist maintainers in troubleshooting down to the lowest replaceable unit (LRU).
- 3.2.1.6.3. Equipment **should** provide capability for remote diagnostics using open standards listed in paragraph 3.2.1.5 Interfaces.

## 3.2.2 VHF Radiotelephone with DSC Class D

- 3.2.2.1. Radios **shall** be supplied with a hand held speaker-microphone.
- 3.2.2.2. Radios **shall** be operable from two locations, the main control unit and one remote station.

- 3.2.2.3. Each remote control head operator location **shall** connect to the main unit via cable up to at least eight (8) metres long.
- 3.2.2.4. In addition to being operable from two locations, radios **shall** also be operable by one analog speaker microphone/handset-only station (such as the David Clark intercom system) with push to talk function, and audio transmit and receive capabilities.
- 3.2.2.5. Radios and the remote station **shall** be waterproof to IPx7 level or better.
- 3.2.2.6. Radios **shall** be powered by 12 VDC (nominal).

### **3.2.3 VHF Radiotelephone with DSC Class A**

- 3.2.3.1. Radios **shall** be supplied with a telephone handset.
- 3.2.3.2. Radios **shall** include an interface for an external connection for an IMO type approved VDR/S-VDR.
- 3.2.3.3. Radios **shall** be operable from three locations, the main unit and two remote control stations.
- 3.2.3.4. Each remote control head operator location **shall** connect to the main unit via cable up to at least fifteen (15) metres long.
- 3.2.3.5. Control of the radio at the position where the ship is normally navigated **shall** have priority over additional control units.
- 3.2.3.6. When there is more than one control unit, indication **shall** be given to the other units that the equipment is in operation.
- 3.2.3.7. Radios **should** be full duplex in order that when used with duplex VHF channels the received signal can be monitored while PTT is activated.
- 3.2.3.8. Radios **shall** include private channel mode capability with a minimum of ten (10) programmable private channels available.

### **3.2.4 MF/HF Radiotelephone with Class A DSC**

- 3.2.4.1. The radio control unit **shall** incorporate a one channel (2187.5 KHz) watch receiver, upgradeable to a six channel watch receiver.
- 3.2.4.2. Radios **shall** be supplied with a telephone handset.
- 3.2.4.3. Radios **shall** be operable from two locations, the main unit and one remote control station.
- 3.2.4.4. When there are more than one control unit, indication **shall** be given to the other unit that the equipment is in operation.

- 3.2.4.5. Each remote control head operator location **shall** connect to the main unit via cable up to at least fifteen (15) metres long.
- 3.2.4.6. High power Radios **shall** have a transmitter output of approximately 500 Watts PEP.
- 3.2.4.7. Mid power Radios **shall** have an output of approximately 250 Watts PEP.
- 3.2.4.8. MF/HF radio control heads **shall** be compatible with low and high power transmitters.

### 3.2.5 MF/HF Radiotelephone for General Communications

- 3.2.5.1. This radio is similar to the radio listed in section 3.2.4 except that DSC capability is not required and output power **shall** be only 125 to 150 Watts PEP, approximately.
- 3.2.5.2. Radios **shall** consist of a control head separate from the transceiver unit with connection cable up to at least eight (8) metres long.

### 3.2.6 MF/HF Six Channel DSC Watch Receiver

- 3.2.6.1. The MF/HF six-channel DSC watch receiver **shall** incorporate a DSC watchkeeping facility to maintain a continuous watch on distress alerting channels 2187.5 kHz, 8414.5 kHz, 4207.5 kHz, 12 577 kHz, 6312 kHz, and 16 804.5 kHz.

### 3.2.7 Radio Telex/NBDP

- 3.2.7.1. Radio Telex/NBDP equipment **shall** include a dedicated display device, keyboard, printer, and non-volatile message memory.

### 3.2.8 Inmarsat Ship Earth Station (SES) with Enhanced Group Calling (EGC)

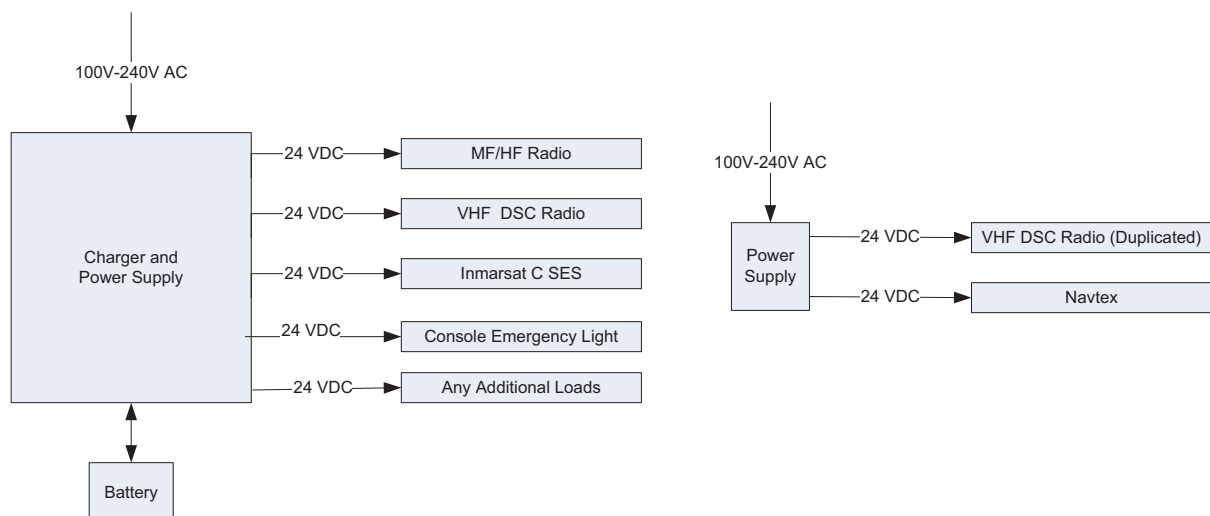
- 3.2.8.1. The SES **shall** provide the functions of transmitting and receiving direct-printing communications.
- 3.2.8.2. The SES supplied **shall** be type designated as Class 2 at a minimum as defined by IEC 61097.
- 3.2.8.3. SES equipment **shall** include a dedicated display device, keyboard, printer, and non-volatile message memory.
- 3.2.8.4. Non-vital messages **should** be storable on the EGC equipment for future access.
- 3.2.8.5. Means **shall** be provided to enter the ship's position and area code automatically as determined by the navigation equipment so that area group calls can be received.

### 3.2.9 Power Supplies and Battery Charger

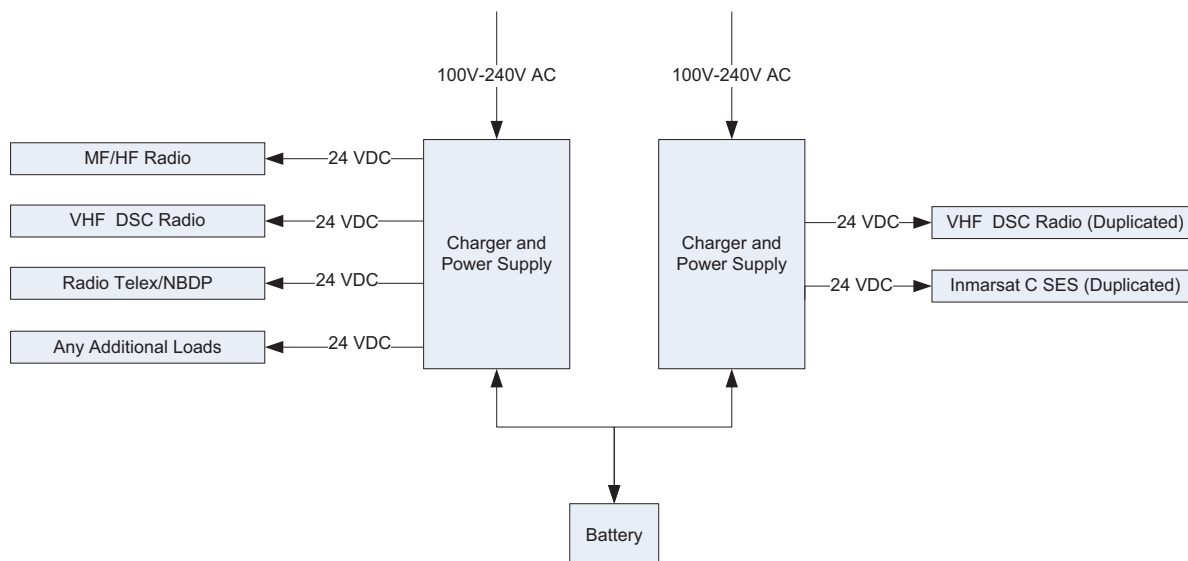
- 3.2.9.1. Upon loss of the ship's main source of electrical power, GMDSS installations **shall** be automatically backed up by a reserve source of electrical energy.
- 3.2.9.2. System power supplies and battery chargers **shall** accept 120 and 220 Volts AC input power (nominal).
- 3.2.9.3. The battery charger **shall** be an automatic charger type (with float charging) capable of recharging the completely discharged batteries to the minimum required capacity within 10 hours while supplying the console with the required power.
- 3.2.9.4. Power **shall** be supplied through individual fused output lines to ensure independent DC supply for connected equipment.
- 3.2.9.5. Duplicated equipment **shall** be supplied by a separate power supply.
- 3.2.9.6. SOLAS vessels **shall** be provided with duplication of charging capability.
- 3.2.9.7. Power supply capacity **should** be scalable by adding modules to a processor controlled backbone for balanced load sharing.
- 3.2.9.8. The system power supply and battery charger **should** be combined.

Figures 1 and 2 depict the general concept for GMDSS power configuration.

**Figure 1: Domestic Installation Power Configuration**



**Figure 2: SOLAS (International) Installation Power Configuration**



### 3.2.10 Console

- 3.2.10.1. GMDSS consoles **shall** include all operation interface components with the exception of VHF/DSC Radios, EPIRB, SART, Navtex and handheld GMDSS VHF Lifeboat Transceivers.
- 3.2.10.2. Each console configuration **shall** be factory pre-wired to expedite system installations.
- 3.2.10.3. The consoles **shall** be designed in a modular fashion to allow for flexible installation on vessels with differing requirements or size constraints.
- 3.2.10.4. The GMDSS console **shall** have the option of being deck or tabletop mounted with flexible provisions made for cable entry.
- 3.2.10.5. The console **shall** be of welded steel frame construction with a powder coat finish on all exposed surfaces.

### 3.2.11 Navtex Receiver

- 3.2.11.1. At a minimum Navtex equipment **shall** include a display device, printer output port, a non-volatile message memory and a dedicated IEC 61162-1/2 compliant interface.
- 3.2.11.2. The NAVTEX Receiver **shall** be supplied with an active antenna system.



### 3.2.12 Float-Free Satellite EPIRB 406 MHz

- 3.2.12.1. EPIRBs **shall** be type designated as type E1 EPIRB as defined by Industry Canada.
- 3.2.12.2. The EPIRB identification code **shall** include a country code for Canadian vessels.
- 3.2.12.3. The EPIRB **shall** be equipped with a hydrostatic release unit.
- 3.2.12.4. The hydrostatic release unit **shall** be replaceable without requiring replacement of the EPIRB housing bracket.
- 3.2.12.5. The life of the hydrostatic release unit as defined by its expiry date **shall** be at least two years after delivery date.
- 3.2.12.6. The life of the EPIRB battery as defined by its expiry date **shall** be at least five years after delivery date.
- 3.2.12.7. The battery **shall** be non-hazardous and shippable within Canada by regular post.

### 3.2.13 Search and Rescue Transponder 9GHz

- 3.2.13.1. SARTs **shall** operate in the radar X band frequency range.
- 3.2.13.2. The life of the SART battery as defined by its expiry date **shall** be at least five years after delivery date.
- 3.2.13.3. The battery **shall** be non-hazardous and shippable within Canada by regular post.

### 3.2.14 Handheld GMDSS VHF Lifeboat Transceiver

- 3.2.14.1. Radios **shall** be provided with a user replaceable secondary battery and charger for daily use.

## 3.3 OPERATIONAL REQUIREMENTS

### 3.3.1 Ease of Use and Maintainability

- 3.3.1.1. Commonly used functions **should** be accessible by touch screen, knob or pushbutton from the main control unit.
- 3.3.1.2. For all radios it **shall** be possible to adjust internal loudspeaker volume independently from the handset volume adjustment.
- 3.3.1.3. Light emitting equipment **shall** be equipped with convenient brightness controls in the form of an external control knob or button.
- 3.3.1.4. Both NBDP/Radio Telex and SES messages **should** be intuitively easy to send with a minimum number of actions required.

- 3.3.1.5. A method of monitoring the battery state of charge ***shall*** be conveniently visible to the radio operator.
- 3.3.1.6. Communication equipment ***shall*** include an updateable contacts address book (e.g. MMSI numbers).

## Appendix A PUBLICATIONS

**Table 3: Regulations, Standards, and Performance Requirements Publications**

ETSI EN 301 025	Electromagnetic compatibility and Radio spectrum Matters (ERM); VHF radiotelephone equipment for general communications and associated equipment for Class "D" Digital Selective Calling (DSC);
IEC 61097 All Parts	Global Maritime Distress and Safety System (GMDSS) - Operational and Performance Requirements, Methods of Testing and Required Testing Results
IEC 62238	Maritime Navigation and Radiocommunication Equipment and Systems – VHF Radiotelephone Equipment Incorporating Class "D" Digital Selective Calling (DSC) – Methods of Testing and Required Test Results
IMO MSC.148(77)	Revised Performance Standards for Narrow-Band Direct-Printing Global Maritime Distress and Safety System (GMDSS) Telegraph Equipment for Reception Of Navigational and Meteorological Warnings and Urgent Information To Ships (NAVTEX)
IMO MSC.149(77)	Revised Performance Standards For Survival Craft Portable Two-Way VHF Radiotelephone Apparatus
IMO A.660(16)	Carriage of Satellite Emergency Position-Indicating Radio Beacons (EPIRBs)
IMO A.662(16)	Performance Standards for Float-Free Release and Activation Arrangements for Emergency Radio Equipment
IMO A.694(17)	General Requirements for Shipborne Radio Equipment Forming Part of the Global Maritime Distress and Safety System (GMDSS) and for Electronic Navigational Aids
IMO A.802(19)	Performance Standards for Survival Craft Radar Transponders (SARTs) for Use In Search And Rescue Operations
IMO A.803(19)	Performance Standards for Shipborne VHF Radio Installations Capable of Voice Communication and Digital Selective Calling
IMO A.806(19)	Performance Standards for Shipborne MF/HF Radio Installations Capable of Voice Communications, Narrowband Direct Printing and Digital Selective Calling

IMO A.807(19)	Performance Standards for INMARSAT-C Ship Earth Stations Capable of Transmitting and Receiving Direct-Printing Communications
IMO A.808 (19)	Performance Standards for Ship Earth Stations Capable of Two-Way Communications
IMO A.810 (19)	Performance Standards for Float-Free Satellite Emergency Position-Indicating Radio Beacons (EPIRBs) Operating On 406 MHz
Industry Canada RSS-181	Coast and Ship Station Single Sideband Radiotelephone Transmitters and Receivers Operating in the 1,605 - 28,000 kHz Band Spectrum Management Radio Standards Specification
Industry Canada RSS-182	Maritime Radio Transmitters and Receivers in the Band 156-162.5 MHz Spectrum Management and Telecommunications Radio Standards Specification
Industry Canada RSS-287	Emergency Position Indicating Radio Beacons (EPIRB), Emergency Locator Transmitters (ELT), Personal Locator Beacons (PLB), and Maritime Survivor Locator Devices (MSLD) Transmitter and Receiver Standard Specifications
Industry Canada RSS-288	Global Maritime Distress and Safety (GMDSS) Radio Standards Specification
Department of Justice S.C. 2001, c. 26	Canada Shipping Act, 2001

## Appendix B ACRONYMS

**Table 4: Acronyms**

CCG	Canadian Coast Guard
COTS	Commercial-Off-The-Shelf
CSA	Canada Shipping Act
CSMA/CD	Carrier Sense Multiple Access with Collision Detection
DC	Direct Current
DHCP	Dynamic Host Configuration Protocol
DSC	Digital Selective Calling
EPIRB	Emergency Position Indicating Radiobeacon
ERM	Electromagnetic compatibility and Radio spectrum Matters
GMDSS	Global Maritime Distress and Safety Systems
GT	Gross Tons
IEC	International Electrotechnical Commission
IMO	International Maritime Organization
IEEE	Institute of Electrical and Electronics Engineers
ITS	Integrated Technical Services
MMSI	Maritime Mobile Service Identity
MSC	Maritime Safety Commission
MSLD	Maritime Survivor Locator Devices
NBDP	Narrow Band Direct Printing
OPI	Office of Primary Interest
RSS	Radio Standards Specification
RTTEL	Recommended Tools and Test Equipment List

SART	Search and Rescue Transponder
SES	Ship Earth Station (Inmarsat)
SLP	Service Location Protocol
SNMP	Simple Network Management Protocol
SOLAS	Safety of Life at Sea Convention
SOW	Statement of Work
SSDP	Simple Service Discovery Protocol
TAC	Technical Acceptance Certificate
VDC	Volts DC
VHF	Very High Frequency

## **ANNEX “C”**

### **Sample PWGSC 942 Call-Up Against a Standing Offer Form**

**Global Maritime Distress and Safety System**

**F7048-140004**





**Call-up Against a Standing Offer**  
**Commande subséquente à une offre à commandes**

**To the supplier:** Your standing offer referred to below is hereby accepted as follows: You are required to supply the goods and/or services shown below at the prices or pricing basis and in accordance with the other terms and conditions stated in the standing offer. Only goods and services included in the standing offer shall be supplied against this call-up.

**Au fournisseur:** Votre offre à commandes, dont le numéro figure plus bas, est acceptée selon les modalités suivantes: Vous devez fournir les biens ou services indiqués ci-dessous aux prix ou selon les modalités de prix et en conformité des autres conditions stipulés dans l'offre à commandes. Ne seront fournis en vertu de la présente commande que les biens et services figurant dans l'offre à commandes.

**Security:** This call-up includes security provisions.

If yes, an SRCL shall accompany all PWGSC call-ups.

**Sécurité :** Cette commande comprend des exigences en matière de sécurité. Si oui, on doit joindre une LVERS à toutes les commandes du TPSGC.

☐ No  
☐ Non☐ Yes  
☐ Oui

Ship to - Expédier à

Supplier - Fournisseur

Invoices are to be addressed in accordance with: Adresser les factures selon:

☐ The detailed instructions in the standing offer  
Les instructions détaillées de l'offre à commandes

☐ The address shown in the "Ship to" block  
L'adresse indiquée dans la case "Expédier à"

☐ Special instructions below  
Les instructions particulières ci-dessous

Each shipment shall be accompanied by a packing slip or delivery slip. All invoices, shipping bills and packing slips must show the following reference numbers.

Financial Code(s) - Code financier(s)

Chaque envoi sera accompagné d'un bordereau d'emballage ou d'expédition. Les factures, connaissements et bordereaux d'emballage doivent tous porter les numéros de référence suivants.

Standing Offer No. - N° d'offre à commandes

Requisition no. - N° de commande  
Order. Off. - Bur. dem. YY - AA      Serial no. - N° de série

Client Reference No. (optional)  
N° de référence du client (facultatif)

Goods and Services Tax (GST)/Harmonized Sales Tax (HST): Unless otherwise indicated, unit/extended prices include GST/HST.

Provincial Sales Tax - Taxe de vente provinciale

Taxe sur les produits et services (TPS)/Taxe de vente harmonisée (TVH) : Sauf indication contraire, la TPS/TVH est incluse dans le prix unitaire et le prix total.

☐ Exigible    ☐ Non-exigible

Lic. no.(s) auth. - Autori. N°(s) de licența

Amendment No. - N° de modification

Previous Value - Valeur précédente

Value of inc. or dec. - Augm. ou diminution

Tot. est. exp. or rev. tot. est. exp.
Mont. tot. prév. ou mont. tot. prév. révisé

Item No. N° de l'art.	NATO Stock number / Item Description N° de nomenclature de l'OTAN / Description de l'article	U. of l. U. de d.	Qty Qté	Unit Price Prix unitaire (\$)	GST or HST TPS ou TVH (%)	GST or HST TPS ou TVH (\$)	Extended Price Prix calculé (\$)

Special Instructions - Instructions particulières

Total Price (before taxes)	
Prix total (avant taxes)	

GST/HST Amount Montant  
TPS/TVHTotal Extended Price  
Prix calculé total

For further information call - Pour renseignements supplémentaires

Delivery required by - Livraison requise le

Name - Nom

Telephone No. - N° de téléphone

Pursuant to subsection 32(1) of the *Financial Administration Act*, funds are available.  
En vertu du paragraphe 32(1) de la *Loi sur la gestion des finances publiques*, des  
fonds sont disponibles.

Approved for the Minister - Approuvé pour le Ministre

Signature (Mandatory - Obligatoire)

Date \_\_\_\_\_

Signature (Mandatory - Obligatoire)

Date \_\_\_\_\_

Canada<sup>B+C</sup>

PWGSC-TPSGC 942 (02/2011)

Requisition No. - N° de commande			Client Reference No. (optional) N° de référence du client (facultatif)
Order. Off.	Bur. dem.	Serial No. - N° de série	

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of
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Item No. N° de l'art.	NATO Stock number / Item Description N° de nomenclature de l'OTAN / Description de l'article	U. of l. U. de d.	Qty Qté	Unit Price Prix unitaire (\$)	GST or HST TPS ou TVH (%)	GST or HST TPS ou TVH (\$)	Extended Price Prix calculé (\$)

Requisition No. - N° de commande			Client Reference No. (optional) N° de référence du client (facultatif)
Order. Off.	Bur. dem.	Serial No. - N° de série	

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of
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Item No. N° de l'art.	NATO Stock number / Item Description N° de nomenclature de l'OTAN / Description de l'article	U. of l. U. de d.	Qty Qté	Unit Price Prix unitaire (\$)	GST or HST TPS ou TVH (%)	GST or HST TPS ou TVH (\$)	Extended Price Prix calculé (\$)

Requisition No. - N° de commande			Client Reference No. (optional) N° de référence du client (facultatif)
Order, Off. Bur. dem.	YY - AA	Serial No. - N° de série	

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Item No. N° de l'art.	NATO Stock number / Item Description N° de nomenclature de l'OTAN / Description de l'article	U. of l. U. de d.	Qty Qté	Unit Price Prix unitaire (\$)	GST or HST TPS ou TVH (%)	GST or HST TPS ou TVH (\$)	Extended Price Prix calculé (\$)



Fisheries and Oceans  
Canada

Pêches et Océans  
Canada

Canadian  
Coast Guard

Garde côtière  
canadienne

# *Global Maritime Distress and Safety System Evaluation Plan*



*Canadian Coast Guard*

*EP*

Canada

**Published under the Authority of:**

Integrated Technical Services Directorate  
Fisheries and Oceans Canada  
Canadian Coast Guard  
Ottawa, Ontario

K1A 0E6

GLOBAL MARITIME DISTRESS AND SAFETY SYSTEM – EVALUATION  
PLAN

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FINAL – JANUARY 2015

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Available on CCG Intranet site at:  
<http://ccg-gcc.ncr.dfo-mpo.gc.ca>

Document template : English  
Print Format: Double Sided  
Last revision: August 2010  
Compatibility: Word 97 & 2002 (XP)



Disponible en français :  
Printed on recycled paper

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## Chapter 1      PROPOSAL EVALUATION

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### 1.1      EVALUATION PROCESS

The successful bidder will be selected based on a best-value basis determined through the following evaluation process:

1. To be considered responsive, a bid must meet all of the MANDATORY requirements of this solicitation. Bids not meeting ALL THE MANDATORY requirements given in both the Statement of Work and the Technical Statement of Requirements, and attested to in the accompanying Compliance Matrices (see Chapter 2 of Annex D – Evaluation Plan; Mandatory Requirements M3 and M4) will be given no further consideration.
2. Bids will be evaluated in the following order:
  - i. Evaluation of proposal – All Terms and Conditions have been met.
  - ii. Evaluation of technical mandatory requirements as detailed in Annex D – Evaluation Plan;
  - iii. Evaluation of the technical rated requirements as detailed in Annex D – Evaluation Plan;
  - iv. Price.
3. Among the compliant bids, selection will be made on the following criteria:
  - i. 60 points are awarded for the technical assessment (rated criteria).
  - ii. 40 points are awarded for the price.
4. The successful bidder will be selected on the basis of the assessed “best value” to the Crown. The “best value” will be the proposal with the highest TOTAL SCORE. The determination will be made using the following process:
  - a) A 60% weighting factor will be used for calculating the Bidder’s Technical Score awarded for the rated criteria.
  - b) A 40% weighting factor will be used for calculating the Bidder’s Cost Score awarded for price.
  - c) The successful Bidder will be selected on the basis of the assessed “best value” to the Crown. The “best value” will be the proposal with the highest Total Score.
  - d) The Total Score is calculated from the Bidder’s evaluated responses as follows:

$$\begin{aligned}
 \text{Technical Score} &= \frac{\text{Bidders Rated Score}}{\text{Highest Possible Score}} \times 60 \\
 \text{Cost Score} &= \frac{\text{Lowest Cost}}{\text{Bidders Cost}} \times 40 \\
 \text{Total Score} &= \text{Technical Score} + \text{Cost Score}
 \end{aligned}$$

The successful bidder will be the company with the highest TOTAL SCORE.

## 1.2 TECHNICAL EVALUATION – MANDATORY REQUIREMENTS

	<b>Bidder's Name:</b>		
<b>Mandatory Requirement</b>	<b>Section</b>	<b>Bidder's Response with References</b>	<b>Met / Not Met</b>
<b>M1. Transmitting radio approved by Industry Canada and possesses a Technical Acceptance Certificate (TAC)</b>	TSOR 3.1.1		
<b>M2. Equipment is approved by Transport Canada</b>	TSOR 3.1.2		
<b>M3. Compliance Matrix for Statement of Work</b>	Annex A		
<b>M4. Compliance Matrix for Technical Statement of Requirements</b>	Annex B		

For M3, and M4, bidders shall provide a Compliance Matrix, indicating their compliance to each one of the mandatory requirements of the Statement of Work (SOW) and Technical Statement of Requirements (TSOR).

An example of a Compliance Matrix has been included as Appendix 1 for demonstration purposes only.

## 1.3 TECHNICAL EVALUATION – RATED REQUIREMENTS

### RATED REQUIREMENTS for TECHNICAL STATEMENT of REQUIREMENTS

Section	Requirement Description with References	Evaluation Criteria	Evaluation Scale	Maximum Score to be achieved	Instructions
3.2.1.1.1	Class A DSC radios, excluding handhelds, should incorporate a 120 second (minimum) record and replay function.	Y/N	0 or 10	10	n/a
3.2.1.1.7	Telephone handsets, hand held speaker-microphones and remote control stations should have common interfaces and be interchangeable between all VHF and MF/HF radiotelephones provided.	Y/N	0 or 10	10	n/a
3.2.1.4.3	Equipment should be constructed so that it is readily accessible for inspection and on-board maintenance purposes.	Extent of accessibility	0 - 10	10	2 points: Fuses accessible without use of tools 3 points: Connection to test equipment without use of tools 5 points: Equipment should be accessible without removing other equipment

3.2.1.5.1	Equipment interfaces for electronic position-fixing and position and time information should conform to IEC 61162-2, Maritime navigation and radiocommunication equipment and systems – Digital interfaces – Part 2: Single talker and multiple listeners, high-speed transmission.	Number of conforming equipment interfaces	0 - 5	5	1 point for each equipment model with interface conforming to IEC 61162-2
3.2.1.5.4	<p>System components should provide third party integration and plug-and-play network configuration by utilizing open Ethernet network standards such as:</p> <ul style="list-style-type: none"> <li>a. IEEE standard 802.3 Carrier Sense Multiple Access with Collision Detection (CSMA/CD) Access Method and Physical Layer Specifications (Ethernet).</li> <li>b. Simple Network Management Protocol (SNMP)</li> <li>c. Simple Service Discovery Protocol (SSDP)</li> <li>d. Dynamic Host Configuration Protocol (DHCP).</li> <li>e. Service Location Protocol (SLP)</li> <li>f. Dynamic allocation of Internet Protocol version four (IPv4) and/or Internet Protocol version six (IPv6) addresses</li> </ul>	Number of open standards used	0 - 10	10	<p>2 points for each open standard used to enable plug and play configuration and third party integration.</p> <p>Note: Additional open standards to those listed are permissible.</p>

3.2.1.5.6	All equipment (SART, EPIRB, handheld GMDSS VHF lifeboat transceiver, battery chargers, VHF radiotelephone with DSC class D excepted) should operate within 10 VDC to 30 VDC power (nominal).	Y/N	0 or 10	10	n/a
3.2.1.6.3	Equipment should provide capability for remote diagnostics using open standards listed in the Interfaces section (TSOR 3.2.1.5).	Y/N	0 or 10	10	n/a
3.2.9.7	Power supply capacity should be scalable by adding modules to a processor controlled backbone for balanced load sharing.	Y/N	0 or 10	10	n/a
3.2.9.8	The system power supply and battery charger should be combined.	Y/N	0 or 10	10	n/a
			Maximum attainable score: 85		

## Chapter 2      SAMPLE COMPLIANCE MATRICES

### Notes:

1. Bidders must complete a separate Compliance Matrix for each document, the Statement of Work and the Technical Statement of Requirements.
2. Each Compliance Matrix must contain all the mandatory requirements from the associated document, and an indication of compliance with each requirement.
3. Comments may be added if necessary.

### 2.1      STATEMENT OF WORK

Sample Compliance Matrix - Statement of Work			
Item Reference	Description	Compliant (Y/N)	Comments
1.1.1.1	The Vendor <i>shall</i> supply equipment as detailed in Table 1 – CCG Radiocommunication and GMDSS Equipment Configuration of the TSOR, complete with all installation instructions, service and operator manuals, materials, parts and assemblies necessary for installation and integration.	Y	
1.1.1.2	The supplied equipment <i>shall</i> be available for purchase either as individual components or as systems pre-mounted in consoles.	Y	
Etc.			

## 2.2 TECHNICAL STATEMENT OF REQUIREMENTS

Sample Compliance Matrix - Technical Statement of Requirements			
Item Reference	Item Description	Compliant (Y/N)	Comments
3.1.1	Transmitting radio equipment <i>shall</i> be certified by Industry Canada and possess a Technical Acceptance Certificate (TAC).	Y	
3.1.2	Equipment <i>shall</i> be approved by Transport Canada and comply with the appropriate standards published by the International Maritime Organization (IMO), referenced by SOLAS and CSA 2001.	Y	
3.2.1.1.2	VHF DSC radios <i>shall</i> incorporate a built in watch receiver for monitoring DSC channel 70.	Y	
Etc.			