



RETURN BIDS TO:
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SOLICITATION AMENDMENT
MODIFICATION DE L'INVITATION

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

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'invitation demeurent les mêmes.

Comments - Commentaires

Vendor/Firm Name and Address
Raison sociale et adresse du
fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution
Marine Emergency Response Division/Division des
Interventions en cas d'urgence maritime
Centennial Towers 7th Floor - 7W11
200 Kent Street
Ottawa
Ontario
K1A0S5

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| Title - Sujet Fire-Resistant Boom Estacade ignifugée | |
| Solicitation No. - N° de l'invitation F7047-210016/B | Amendment No. - N° modif. 001 |
| Client Reference No. - N° de référence du client F7047-210016 | Date 2021-12-21 |
| GETS Reference No. - N° de référence de SEAG PW-\$ERD-005-28460 | |
| File No. - N° de dossier 005erd.F7047-210016 | CCC No./N° CCC - FMS No./N° VME |
| Solicitation Closes - L'invitation prend fin at - à 02:00 PM Eastern Standard Time EST on - le 2022-02-02 Heure Normale du l'Est HNE | |
| F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input type="checkbox"/> | |
| Address Enquiries to: - Adresser toutes questions à: Richards, Shazia | Buyer Id - Id de l'acheteur 005erd |
| Telephone No. - N° de téléphone (343) 553-2046 () | FAX No. - N° de FAX () - |
| Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: | |

Instructions: See Herein

Instructions: Voir aux présentes

| | |
|--|--|
| Delivery Required - Livraison exigée | Delivery Offered - Livraison proposée |
| Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur | |
| Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur | |
| Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie) | |
| Signature | Date |

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001
File No. - N° du dossier

Buyer ID - Id de l'acheteur
005erd
CCC No./N° CCC - FMS No./N° VME

Amendment 001

This amendment is raised to modify the Region of Delivery on the Tender Notice and to replace the Statement of Work (SOW) document – *see revised document attached.*

On the first page of the Tender Notice at << Region of Delivery >>

Delete: Nova Scotia

Insert: Newfoundland and Labrador

All other terms and conditions remain unchanged

Annex A

Statement of Work

FIRE BOOM

SECTION 1 INTRODUCTION

1.1. BACKGROUND

The Canadian Coast Guard (CCG) requires a capability to collect, contain and recover burned residue and unburned oil following an in-situ burning of oil at sea operation. The Fire Boom will be deployed offshore in Atlantic Canada during the early summer of 2022 in support of on-water testing.

1.2. PURPOSE

CCG requires commercially-available fire-resistant boom and associated equipment. In this document, Fire Boom refers to all components that will be deployed into the water, while Fire Boom System refers to all components (including container, etc.). The Fire Boom will be used to collect burn residue from a controlled in-situ burn test of spilled oil in offshore and unsheltered waters with the potential presence of debris.

This Statement of Work (SOW) document defines the functional- and performance-based requirements for the Fire Boom System.

1.3. DOCUMENT CONVENTION

The following conventions apply to this SOW:

- a. Dimensions stated as nominal are treated as approximate dimensions. Nominal dimensions reflect a standard whereby materials or products are generally identified for commercial sale but differ from the actual dimensions.
- b. Both the metric system and the imperial system of measurements may be indicated in this SOW. Conversions from one system of measurement to the other may not be exact.

SECTION 2 REFERENCE DOCUMENTATION

2.1. APPLICABLE STANDARDS AND REGULATIONS

The Fire Boom System must conform to all applicable laws, regulations, and industrial standards governing manufacture, safety, noise levels, and pollution in effect in Canada at the time of manufacture.

The following standards and specifications apply to the Fire Boom System:

- i. ISO 668 Series 1 Freight Containers
- ii. ISO 1161:2016 Series 1 freight containers – Corner and intermediate fittings – Specifications
- iii. ISO 1496-1 Series 1 freight containers — Specification and testing — Part 1: General cargo containers for general purposes
- iv. Safe Containers Convention Regulations (SOR/82-1038) standards

2.2. SUPERSEDEANCE

Unless otherwise specified by Canada, any amendment issued to the documents specified in section 2.1 must reflect the version in effect on the date of Contract Award.

SECTION 3 FIRE BOOM SYSTEM REQUIREMENTS

3.1 DESIGN OVERVIEW

3.1.1. Canada requires two (2) complete Fire Boom Systems.

3.1.2. The Fire Boom System must be delivered complete and ready to be deployed.

3.2 OPERATIONAL REQUIREMENTS

The Fire Boom System must meet all of the following requirements:

3.2.1 Fire Boom

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| A.1 | Each Fire Boom must consist of a total length of 500 feet, divided into equal sections. NOTE: An individual section must be between 50 feet and 100 feet in length. |
| A.2 | The Fire Boom nominal height must be at least 30 inches. |
| A.3 | The Fire Boom must be constructed of fire-, heat-, ultraviolet- (UV), and corrosion-resistant materials. |
| A.4 | The Fire Boom must be capable of containing burning or smouldering oil and burn residue without failing. |
| A.5 | The Fire Boom must be capable of being exposed to a temperature of 1000 Celsius (°C) for at least 4 hours. |
| A.6 | The Fire Boom must be towable. |
| A.7 | The Fire Boom must contain oil in up to Beaufort force 4 sea conditions during pre-burning operation. |
| A.8 | The Fire Boom must have reflective and high visibility markings. |
| A.9 | The Fire Boom must be mold-resistant when stored in the manufacturer's recommended conditions. |

3.2.2 Fire Boom Storage System

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| B.1 | All Fire Boom must be supplied with containers for deployment and storage, which meet ISO 668 Series 1, ISO 1496-1, and the Safe Containers Convention Regulations (SOR/82-1038) standards. |
| B.2 | The container corners must accommodate casted feet and twist lock fasteners per ISO 1161: 2016. |
| B.3 | The containers must have a means of venting. Ventilation openings must meet the following minimum requirements: a. Two (2) 0.3 x 0.3 metre (m) openings for containers six meters or less; or b. Two (2) 0.5 x 0.5 m openings for containers greater than six meters. |
| B.4 | The ventilation openings must be covered by an open grate wire mesh with greater than 50% free area. |
| B.5 | One (1) ventilation opening must be within 150 millimetres (mm) above the floor on one door. |
| B.6 | One (1) ventilation opening must be within 150 mm from the top of the container, opposite of the ventilation opening in B.5. |
| B.7 | Each container must have forklift pockets that meet ISO 1496-1 standards. |

3.2.3 Fire Boom Accessories

The Fire Boom must meet the following accessory package requirements:

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| C.1 | The Fire Boom must be supplied with all required parts and accessories (e.g., reel, joiners, storage, containers, inflators, pumps, bridles etc.) necessary to deploy, retrieve, and store the boom. |
| C.2 | All lifting points and lifting equipment of the Fire Boom System must be certified. Certification must be included with the Operations and Maintenance Manual, as per Deliverable 3. |

3.2.4 Fire Boom Repair Kit

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| D.1 | A repair kit must be supplied complete with all tools, materials, and instructions required to make field repairs, such as minor punctures, tears, and leaks to the Fire Boom. |
| D.2 | The repair kit instruction for the Fire Boom must be waterproof to withstand a marine environment. |

3.2.5 Identification and Markings

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| E.1 | Each Storage container must be clearly labelled with a product identifier. |
| E.2 | Each Fire Boom section must be clearly labelled with a unique product identifier. |
| E.3 | The Fire Boom's operational hardware, maximums, capacities, limits, and all hazards must be labeled to facilitate safe operation. |

3.2.6 Other Requirements

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| F.1 | The Fire Boom System must include an English Operations and Maintenance manual. A hardcopy must be provided with each system, and an electronic copy as a high resolution PDF. |
| F.2 | The Operations and Maintenance manual must be provided in French, if available. NOTE: The manufacturer must give the Canada permission to perform the translation to French, if not readily available. |
| F.3 | The Fire Boom System must include all spares that may be required during a recovery operation to sustain operation of the system. |

SECTION 4 DELIVERABLES

4.1 PROJECT MANAGEMENT DELIVERABLES

The Contractor must identify a Project Manager (PM) to oversee all work needed to satisfy the contractual requirements (i.e. tasks, deliverables, resources, schedules, and quality). The PM must be the main point of contact with Canada.

| Item | Deliverable and Meetings | Description | Notes |
|------|---------------------------|---|---|
| 1 | Contract Kick-Off Meeting | <p>The Contractor must convene and co-chair a Contract Kick-Off Meeting. The meeting must be held in Canada. Teleconference and videoconference (such as MS Teams) may be acceptable at the discretion of Canada. At a minimum, the following documents must be reviewed during the meeting:</p> <ul style="list-style-type: none">a. Contract;b. Project Schedule; andc. The proposed Fire Boom System | Unless otherwise specified, this meeting is to be held no later than 14 calendar days after Contract Award. |
| 2 | Monthly Updates | <p>The Contractor must provide monthly updates to Canada via email detailing, at a minimum:</p> <ul style="list-style-type: none">a. A summary of the current progress of the contract;b. Estimated timelines for remaining work;c. Potential technical adjustments that may be required. <p>The Progress Report must also identify potential schedule risks and a mitigation plan.</p> | The monthly updated submission date to be determined during the Contract Kick-Off |

4.1.1 Cancellation of Meetings

Canada may cancel meetings at its discretion. Rescheduling of meetings must be done only with the explicit agreement of Canada.

4.1.2 Unscheduled Meetings

The Contractor must provide representation at meetings (teleconference or in person) should the need for ad hoc or unscheduled meetings be required.

4.2 LIFE CYCLE MANAGEMENT DELIVERABLES

| Item | Deliverable and Meetings | Description | Notes |
|------|---|---|---|
| 3 | Operations and Maintenance (O&M) Manual | <p>The O&M Manual must include all the necessary information to safely operate the Fire Boom and all supporting equipment. It must also provide Canada with all the necessary information required for the preventive maintenance and corrective maintenance of the Fire Boom. The certification for all lifting points and lifting equipment must be included with the manual (as per requirement C.2).</p> <p>The O&M Manual must be provided in English and, if available, in French. If a French version of the Manual is not available, then the Contractor must give Canada permission to translate the Manual to French.</p> | One hardcopy of each manual must be included with each Fire Boom Package. One digital copy (as a high resolution PDF) should be provided to Canada prior to shipment. |
| 4 | Master Equipment List | <p>The Master Equipment List is a listing of equipment, and associated data that will be entered into CCG's Maintenance Management System for the purpose of managing maintenance and tracking. The Master Equipment List must include a recommended spare parts section.</p> <p>Content: at a minimum, the following information must be provided for each equipment :</p> <p>a. Item Name: (E.g. Inverter Gas Generator 3000W);</p> | Due prior to first shipment of the Fire Boom. |

| Item | Deliverable and Meetings | Description | Notes |
|------|--------------------------|--|-------|
| | | <ul style="list-style-type: none"> b. Item Description: Characteristics that describe the equipment such as physical and functional specifications, capacity and/or rating (E.g. 13 km/L); c. Original Equipment Manufacturer name and address; d. Original Equipment Manufacturer part number; e. NATO stock number (if applicable); f. Original Equipment Manufacturer model name or number: Please specify if this does not match the information provided in “d” from this section; g. Supplier catalog number (if applicable); h. Supplier name and address; i. Supply type; please indicate if the equipment is commercially available or custom fabricated; and j. Product link to website (if available): Link to manufacturer product description. | |

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