



**RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:**

**Bid Receiving - PWGSC / Réception des
soumissions - TPSGC**
11 Laurier St. / 11, rue Laurier
Place du Portage, Phase III
Core 0B2 / Noyau 0B2
Gatineau, Québec K1A 0S5
Bid Fax: (819) 997-9776

**REQUEST FOR PROPOSAL
DEMANDE DE PROPOSITION**

**Proposal To: Public Works and Government
Services Canada**

We hereby offer to sell to Her Majesty the Queen in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods, services, and construction listed herein and on any attached sheets at the price(s) set out therefor.

**Proposition aux: Travaux Publics et Services
Gouvernementaux Canada**

Nous offrons par la présente de vendre à Sa Majesté la Reine du chef du Canada, aux conditions énoncées ou incluses par référence dans la présente et aux annexes ci-jointes, les biens, services et construction énumérés ici sur toute feuille ci-annexée, au(x) prix indiqué(s).

Comments - Commentaires

Vendor/Firm Name and Address

**Raison sociale et adresse du
fournisseur/de l'entrepreneur**

Issuing Office - Bureau de distribution

Vehicles & Industrial Products Division
11 Laurier St./11, rue Laurier
7A2, Place du Portage, Phase III
Gatineau, Québec K1A 0S5

Title - Sujet 22000L Aircraft Refueller	
Solicitation No. - N° de l'invitation W6399-180406/B	Date 2017-10-12
Client Reference No. - N° de référence du client W6399-180406	
GETS Reference No. - N° de référence de SEAG PW-\$\$HP-912-73563	
File No. - N° de dossier hp912.W6399-180406	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2017-11-06	Time Zone Fuseau horaire Eastern Standard Time EST
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Pearson, Neil	Buyer Id - Id de l'acheteur hp912
Telephone No. - N° de téléphone (873) 469-3312 ()	FAX No. - N° de FAX (819) 953-2953
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: Specified Herein Précisé dans les présentes	

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée See Herein	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	

This bid solicitation cancels and supersedes previous bid solicitation number W6399-180406/A dated 11 August 2017 with a closing of 2 October 2017 at 2:00pm EDT. A debriefing or feedback session will be provided upon request to bidders/offerors/suppliers who bid on the previous solicitation.

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PART 1 - GENERAL INFORMATION

1.1 Requirement

Canada is seeking proposals to procure:

1.1.1 Quantity three (3), 22000L Aircraft Refueller and ancillary items as described in Annex "A" - Pricing and in accordance with Annex "B" - Purchase Description 22000L Aircraft Refueller.

1.1.2 Irrevocable options identified in Annex "A"- Pricing.

- 1.1.2.1 The options may only be exercised by the Contracting Authority and will be evidenced, for administrative purposes only, through a contract amendment.
- 1.1.2.2 The options may be exercised in whole or in part and on more than one occasion at the sole discretion of Canada, up to the maximum quantity identified in Annex "A"- Pricing.
- 1.1.2.3 The options may be exercised within twelve (12) months after contract award.

1.2. Debriefings

Bidders may request a debriefing on the results of the bid solicitation. Bidders should make the request to the Contracting Authority within 15 working days of receipt of notification that their bid was unsuccessful. The debriefing may be provided in writing, by telephone or in person.

1.3. Trade Agreements

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

PART 2 - BIDDER INSTRUCTIONS

2.1 Standard Instructions, Clauses and Conditions

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

Bidders who submit a bid agree to be bound by the instructions, clauses and conditions of the bid solicitation and accept the clauses and conditions of the resulting contract.

The 2003 (2017-04-27) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

Subsection 5.4 of 2003, Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete: sixty (60) days

Insert: ninety (90) days

2.2 Submission of Bids

Bids 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 bid solicitation.

2.3 Enquiries - Bid Solicitation

All enquiries must be submitted to the Contracting Authority no later than seven (7) calendar days before the bid closing date. Enquiries received after that time may not be answered.

Bidders should reference as accurately as possible the numbered item of the bid solicitation to which the enquiry relates. Care should be taken by bidders 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 questions or may request that the Bidder do so, so that the proprietary nature of the question is eliminated, and the enquiry can be answered to all bidders. Enquiries not submitted in a form that can be distributed to all bidders may not be answered by Canada.

2.4 Applicable Laws

Any resulting contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in *Ontario*.

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

2.5 Improvement of Requirement During Solicitation Period

Should bidders consider that the specifications, Statement of Work or Purchase Description contained in the bid solicitation could be improved technically or technologically, bidders are invited to make suggestions, in writing, to the Contracting Authority named in the bid solicitation. Bidders must clearly outline the suggested improvement as well as the reason for the suggestion. Suggestions that do not restrict the level of competition nor favour a particular bidder will be given consideration provided they are submitted to the Contracting Authority at least seven (7) days before the bid closing date. Canada will have the right to accept or reject any or all suggestions.

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

Canada requests that bidders provide their bid in separately bound sections as follows:

Section I: Technical Bid (2 hard copies);

Section II: Financial Bid (1 hard copy);

Section III: Certifications (2 hard copies);

Section IV: Additional Information (2 hard copies)

Canada requests that bidders follow the format instructions described below in the preparation of their bid:

- (a) use 8.5 x 11 inch (216 mm x 279 mm) paper;
- (b) use a numbering system that corresponds to the bid solicitation;

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, bidders should:

- 1) use 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 Bid

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

Bidders should complete and submit with their bid the following;

- Appendix "1" - Technical Information Questionnaire.

3.2 Substitute and Alternatives

Bidders may propose substitutes and alternatives where **equivalent** is indicated in the technical requirement description (Purchase Description/Statement of Requirement/Statement of Work). Suppliers are encouraged to offer or suggest green solutions whenever possible.

3.2.1 Substitutes and alternatives that are equivalent in form, fit, function and performance will be considered for acceptance by the Technical Authority where the Bidder:

- (a) Clearly identifies a substitute and/or an alternative;
- (b) Designates the brand name, model and/or part number of the substitute and/or of the product, where applicable;
- (c) States that the substitute product is fully interchangeable with the item specified in the technical requirement description;
- (d) Provides complete specifications and brochures, where applicable;
- (e) Provides compliance statements that include technical details showing the substitute and/or the alternative meet all technical requirements specified in the technical requirement description; and
- (f) Clearly identifies those areas in the technical requirement description and in the brochures that support the substitute and/or the alternative compliance with the technical requirements.

3.2.2 Substitutes and alternatives offered as equivalent in form, fit, function and performance will not be considered for acceptance by the Technical Authority if:



- (a) The bid fails to provide all of the information requested to allow the Technical Authority to fully evaluate the evaluate the equivalency; or
- (b) The substitute and/or the alternative fail to meet or fail to exceed the technical requirements specified in the technical requirement description.

Section II: Financial Bid

Bidders must submit their bid in accordance with the Basis of Payment specified in Part 6 and Annex A - Pricing.

3.3 SACC Manual Clauses

3.3.1 Exchange Rate Fluctuation Risk Mitigation

1. The Bidder may request Canada to assume the risks and benefits of exchange rate fluctuations. If the Bidder claims for an exchange rate adjustment, this request must be clearly indicated in the bid at time of bidding. The Bidder must submit form PWGSC-TPSGC 450 , Claim for Exchange Rate Adjustments with its bid, indicating the Foreign Currency Component (FCC) in Canadian dollars for each line item for which an exchange rate adjustment is required.
2. The FCC is defined as the portion of the price or rate that will be directly affected by exchange rate fluctuations. The FCC should include all related taxes, duties and other costs paid by the Bidder and which are to be included in the adjustment amount.
3. The total price paid by Canada on each invoice will be adjusted at the time of payment, based on the FCC and the exchange rate fluctuation provision in the contract. The exchange rate adjustment will only be applied where the exchange rate fluctuation is greater than 2% (increase or decrease).
4. At time of bidding, the Bidder must complete columns (1) to (4) on form PWGSC-TPSGC 450 , for each line item where they want to invoke the exchange rate fluctuation provision. Where bids are evaluated in Canadian dollars, the dollar values provided in column (3) should also be in Canadian dollars, so that the adjustment amount is in the same currency as the payment.
5. Alternate rates or calculations proposed by the Bidder will not be accepted for the purposes of this exchange rate fluctuation provision.

Section III: Certifications

Bidders must submit the certifications required under Part 5 - Certifications.

Section IV Additional Information

Canada requests that bidders submit the following information:

3.4 Delivery

3.4.1 Firm Quantity

While delivery of the vehicle(s) is requested by 03 April 2018 the best delivery that can be offered is as follows:

Item 001 – Quantity three (3), 22000L Aircraft Refueller and related items will be delivered within _____ calendar days from the effective date of the contract.

3.4.2 Optional Quantity

If an option is exercised, the best delivery that can be offered is as follows:

Item 002 – Quantity up to three (3), 22000L Aircraft Refueller and ancillary items will be delivered within _____ calendar days after an option is exercised.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1. Evaluation Procedures

- (a) Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria.
- (b) An evaluation team composed of representatives of Canada will evaluate the bids.

4.1.1 Mandatory Technical Evaluation Criteria

4.1.1.1 Mandatory Proof of Compliance

Bidders must submit, with their bid, all proof of compliance required in the Annex B -Purchase Description and the Appendix 1 - Technical Information Questionnaire.

4.1.1.2 Substitutes and/or Alternatives

Bidders proposing substitutes and/or alternatives must submit, with their bid all the information requested as detailed in Part 3, section 1 - Substitutes and Alternatives to be considered for evaluation.

4.1.2 Mandatory Financial Evaluation Criteria

4.1.2.1 Bidders must provide, with their bid, the financial information requested in the bid solicitation and at Annex A - Pricing for items 001 and 002.

4.1.2.2 The prices of the bid Bids must be in Canadian dollars, DDP Delivered Duty Paid at destination, Incoterms 2000, for the firm quantity for item 001 and optional quantity item 002. Canadian Custom Duties and Excise Taxes included where applicable, and Applicable Taxes are extra.

4.1.2.3 Aggregate Evaluated Price

Bids will be evaluated on an aggregate price basis for the firm quantity and the optional quantity.

4.1.2.4 To determine the total price for the firm quantity and the optional quantity, calculation will be as follows:

- a) The firm unit price for the firm quantity and the optional quantity will be multiplied by their identified estimated quantities.

4.1.2.5 To determine the aggregate evaluated price for the firm quantity and the optional quantity, calculation will be as follows:

- a) The total price for the firm quantity and optional quantity obtained in 4.1.2.4 (a) above will be added together.

4.2. Basis of Selection

A bid must comply with the requirements of the bid solicitation and meet all mandatory technical and financial evaluation criteria to be declared responsive. The responsive bid with the lowest evaluated aggregate price will be recommended for award of a contract.

PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

Bidders must provide the required certifications and additional information to be awarded a contract.

The certifications provided by Bidders to Canada are subject to verification by Canada at all times. Unless specified otherwise, Canada will declare a bid non-responsive, or will declare a contractor in default if any certification made by the Bidder is found to be untrue whether made knowingly or unknowingly, during the bid evaluation period or during the contract period.

The Contracting Authority will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply and to cooperate with any request or requirement imposed by the Contracting Authority will render the bid non-responsive or constitute a default under the Contract.

5.1 Certifications Required with the Bid

Bidders must submit the following duly completed certifications as part of their bid.

5.1.1 Integrity Provisions - Declaration of Convicted Offences

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

5.2 Certifications Precedent to Contract Award and Additional Information

The certifications and additional information listed below should be submitted with the bid, but may be submitted afterwards. If any of these required certifications or additional information is not completed and submitted as requested, the Contracting Authority will inform the Bidder of a time frame within which to provide the information. Failure to provide the certifications or the additional information listed below within the time frame provided will render the bid non-responsive.

5.2.1 Integrity Provisions – Required Documentation

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

5.2.2 Federal Contractors Program for Employment Equity - Bid Certification

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

Canada will have the right to declare a bid non-responsive if the Bidder, or any member of the Bidder if the Bidder is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list at the time of contract award.

Canada will also have the right to terminate the Contract for default if a Contractor, or any member of the Contractor if the Contractor is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list during the period of the Contract.

The Bidder must provide the Contracting Authority with a completed annex C Federal Contractors Program for Employment Equity - Certification, before contract award. If the Bidder is a Joint Venture, the Bidder must provide the Contracting Authority with a completed annex Federal Contractors Program for Employment Equity - Certification, for each member of the Joint Venture.

5.2.3 Additional Certifications Precedent to Contract Award

The certifications listed below should be completed and submitted with the bid, but may be submitted afterwards. If any of these required certifications is not completed and submitted as requested, the Contracting Authority will inform the Bidder of a time frame within which to provide the information. Failure to comply with the request of the Contracting Authority and to provide the certifications within the time frame provided will render the bid non-responsive.

5.2.3.1 Product Conformance

The Bidder certifies that all vehicles/equipment proposed conform, and will continue to conform throughout the duration of the contract, to all technical specifications of the purchase description(s).

This certification does not relieve the bid from meeting all mandatory technical evaluation criteria detailed in Part 4.

Bidder's authorized representative signature

Date

5.2.3.2 General Environmental Criteria Certification

The Bidder must select and complete one of the following two certification statements.

A) The Bidder certifies that the Bidder is registered or meets ISO 14001.

Bidders' Authorized Representative Signature

Date

Or

B) The Bidder certifies that the Bidder meets and will continue to meet throughout the duration of the contract, a minimum of four (4) out of six (6) criteria identified in the table below.

The Bidder must indicate which four (4) criteria, as a minimum, are met.

Green Practices within the Bidders' organization	Insert a checkmark for each criterion that is met
Promotes a paperless environment through directives, procedures and/or programs	

All documents are printed double sided and in black and white for day to day business activity unless otherwise specified by your client	
Paper used for day to day business activity has a minimum of 30% recycled content and has a sustainable forestry management certification	
Utilizes environmentally preferable inks and purchase remanufactured ink cartridges or ink cartridges that can be returned to the manufacturer for reuse and recycling for day to day business activity.	
Recycling bins for paper, newsprint, plastic and aluminum containers available and emptied regularly in accordance with local recycling program.	
A minimum of 50% of office equipment has an energy efficient certification.	

Bidders' Authorized Representative Signature

Date

PART 6 - RESULTING CONTRACT CLAUSES

6.1. Requirement

6.1.1 The Contractor must deliver quantity three (3), 22000L Aircraft Refueller and ancillary items as described in Annex "A" - Pricing and in accordance with Annex "B" - Purchase Description 22000L Aircraft Refueller.

6.1.2 The Contractor grants to Canada irrevocable options identified in Annex "A" - Pricing.

6.1.2.1 The options may only be exercised by the Contracting Authority and will be evidenced, for administrative purposes only, through a contract amendment.

6.1.2.2 The options may be exercised in whole or in part and on more than one occasion at the sole discretion of Canada, up to the maximum quantity identified in Annex "A" - Pricing.

6.1.2.3 The options may be exercised within Twelve (12) months after contract award.

6.2. Standard Clauses and Conditions

All clauses and conditions identified in the Contract by number, date and title are set out in the Standard Acquisition Clauses and Conditions Manual *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.

6.2.1 General Conditions

2010A (2016-04-04) General Conditions - Goods (Medium Complexity), apply to and form part of the contract.

6.3. Term of Contract

6.3.1 Delivery of Vehicle

6.3.1.1 Firm Quantity

Delivery date of the vehicle must be made as follows:

Item 001 – quantity three (3), 22000L Aircraft Refueller and ancillary items must be delivered on or before _____ (Date to be inserted by PWGSC the Contracting Authority at time of contract award.)

6.3.1.2 Option Quantity

Item 002 quantity up to three (3), 22000L Aircraft Refueller and ancillary items to be delivered within _____ calendar days after an option is exercised. (Days to be inserted by PWGSC the Contracting Authority at time of contract award.)

6.4. Authorities

6.4.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Neil Pearson
Title: Supply Specialist
Organization: Public Works and Government Services Canada -
Acquisitions Branch
LEFT Directorate, HP Division,
7A2, Place du Portage, Phase 3, 11 Laurier Street,
Gatineau Quebec, K1A 0S5
Telephone: 873 469-3312
Facsimile: 819 953-2953
E-mail: neil.pearson@pwgsc-tpsgc.gc.ca

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

6.4.2 Procurement Authority

The Procurement Authority for the Contract is:

Name: _____ (To be inserted by PWGSC at time of contract award.)

Title: _____

Organization: _____

Telephone: ____ - ____ - ____

Facsimile: ____ - ____ - ____

E-mail: _____

The Procurement Authority is the representative of the department or agency for whom the Work is being carried out under the Contract. The Procurement Authority is responsible for the implementation of tools and processes required for the administration of the Contract. The Contractor may discuss administrative matters identified in the Contract with the Procurement Authority however the Procurement Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of Work can only be made through a contract amendment issued by the Contracting Authority.

6.4.3 Technical Authority:

The Technical Authority for the Contract is:

Name: _____ (To be inserted by PWGSC at time of contract award.)

Title: _____

Organization: _____

Telephone: ____ - ____ - ____

Facsimile: ____ - ____ - ____

E-mail: _____

The Technical Authority named above is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Technical Authority, however the Technical Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

6.4.4 Contractor's Representative

Name and telephone number of the person responsible for:

General enquiries

Name: _____ (To be completed by the bidder.)

Title: _____

Telephone: ____ - ____ - ____

Facsimile: ____ - ____ - ____

E-mail: _____

Delivery follow-up

Name: _____ (To be completed by the bidder.)

Title: _____

Telephone: ____ - ____ - ____

Facsimile: ____ - ____ - ____

E-mail: _____

6.4.5 After Sales Service

The following dealer and/or agent is authorized to provide after sales service, maintenance and warranty repairs and a full range of repair parts for the vehicle/equipment offered:

Item 001

Name: _____

Address: _____

Telephone Number: _____

Distance between the delivery location and the dealer and/or agent:
_____ km

6.5. Payment

6.5.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid the firm price(s) specified in Annex "A" - Pricing, and as follows:

6.5.1.1 Basis of Payment (BOP) Type 1

Firm unit prices in Canadian dollars, Delivered Duty Paid at destination, Incoterms 2000, including Canadian Custom Duties and Excise Taxes included where applicable, and applicable Taxes are extra.

The price paid will be adjusted in accordance with the exchange rate fluctuation provision (as applicable).

6.5.2 SACC Manual Clauses

C6000C	Limitation of price	2011-05-06
H1001C	Multiple Payments	2008-05-12

6.5.3 Exchange Rate Fluctuation Adjustment (if applicable)

1. The foreign currency component (FCC) is defined as the portion of the price or rate that will be directly affected by exchange rate fluctuation. The FCC should include all related taxes, duties and other costs paid by the Bidder and which are to be included in the adjustment amount.
2. For each line item where a FCC is identified, Canada assumes the risks and benefits for exchange rate fluctuation, as shown in the Basis of Payment. For such items, the exchange rate fluctuation amount is determined in accordance with the provision of this clause.
3. The total price paid by Canada on each invoice will be adjusted at the time of payment, based on the FCC and the exchange rate fluctuation provisions in the contract. The exchange rate adjustment amount will be calculated in accordance with the following formula:
$$\text{Adjustment} = \text{FCC} \times \text{Qty} \times (i_1 - i_0) / i_0$$
where formula variables correspond to:

FCC

Foreign Currency Component (per unit)

i_0

Initial exchange rate (CAN\$ per unit of foreign currency [e.g. US\$1])

i_1

exchange rate for adjustments (CAN\$ per unit of foreign currency [e.g. US\$1])

Qty

quantity of units

-
4. The initial exchange rate is typically set as the 16:30 Eastern Time (ET) rate as published by the Bank of Canada on the solicitation closing date.
 5. For goods, the exchange rate for adjustment will be the 16:30 Eastern Time (ET) rate as published by the Bank of Canada on the date the goods were delivered. For services, the exchange rate for adjustment will be the 16:30 rate on the last business day of the month for which the services were performed. For advance payments, the exchange rate for adjustment will be the 16:30 rate on the date the payment was due. The most recent 16:30 rate will be used for non-business days.
 6. The Contractor must indicate the total exchange rate adjustment amount (either upward, downward or no change) as a separate item on each invoice or claim for payment submitted under the Contract. Where an adjustment applies, the Contractor must submit with their invoice form PWGSC-TPSGC 450, Claim for Exchange Rate Adjustments.
 7. The exchange rate adjustment will only be applied where the exchange rate fluctuation is greater than 2% (increase or decrease), calculated in accordance with column 8 of form PWGSC-TPSGC 450 (i.e $[i_1 - i_0] / i_0$).
 8. Canada reserves the right to audit any revision to costs and prices under this clause.

6.6 Invoicing Instructions

6.6.1 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. Suppliers are requested to provide invoices in electronic format unless otherwise specified by the Contracting Authority or Project Authority, thereby reducing printed material.

Each invoice must be supported by:

- (a) a copy of the release document and any other documents as specified in the Contract;

6.6.2 Invoices must be distributed as follows:

- (a) The original and one (1) copy must be forwarded to the following address for certification and payment:

National Defence Headquarters
Mgen George R. Pearkes Bldg
101 Colonel By Drive
Ottawa, Canada
K1A 0K2

Attention: DLP _____

- (b) One (1) copy must be forwarded to the PWGSC Contracting Authority identified under the section entitled "Authorities" of the Contract.

6.6.3 Holdback

A ten percent (10%) holdback will apply on the total price of each vehicle items 001 and 002 on any due payment of the said vehicle/equipment. Release of the holdback (10%) is conditional upon receipt and certified acceptance by inspection authority of the said vehicle and all ancillary items as identified in Annex "B" – Purchase Description 22000L Aircraft Refuellers.

Applicable Taxes must be calculated on the total amount of the claim before the holdback is applied. At the time the holdback is claimed, there will be no Taxes payable as it was claimed and payable under the previous invoice.

- (a) The original and one (1) copy of the invoice for the holdback must be forwarded to the Procurement Authority identified under the section entitled "Authorities" of the Contract.
- (b) One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

6.7. Certifications

6.7.1 Compliance

Unless specified otherwise, the continuous compliance with the certifications provided by the Contractor in its bid or precedent to contract award, and the ongoing cooperation in providing additional information are conditions of the Contract and failure to comply will constitute the Contractor in default. Certifications are subject to verification by Canada during the entire period of the Contract.

6.7.2 Federal Contractors Program for Employment Equity - Default by the Contractor

The Contractor understands and agrees that, when an Agreement to Implement Employment Equity (AIEE) exists between the Contractor and Employment and Social Development Canada (ESDC)-Labour, the AIEE must remain valid during the entire period of the Contract. If the AIEE becomes invalid, the name of the Contractor will be added to the "FCP Limited Eligibility to Bid" list. The imposition of such a sanction by ESDC will constitute the Contractor in default as per the terms of the Contract.

6.8 Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

6.9 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 Articles of Agreement;
- (b) 2010A (2016-04-04) General Conditions - Goods (Medium Complexity);
- (c) Annex "A" - Pricing;
- (d) Annex "B" - Purchase Description 22000L Aircraft Refueller
- (e) Appendix 1- Technical Information Questionnaire
- (f) Annex "C", Federal Contractors Program for Employment Equity – certification;
- (g) the Contractor's bid dated _____

6.10 SACC Manual Clauses

A1009C	Work Site Access	2008-05-12
A9006C	Defence Contract	2012-07-16
A9049C	Vehicle Safety	2011-05-16
A9062C	Canadian Forces Site Regulations	2011-05-16
C2800C	Priority Rating	2013-01-28
C2801C	Priority Rating - Canadian-based Contractors	2014-11-27
D3010C	Delivery of Dangerous Goods / Hazardous Products	2016-01-28
D5510C	Quality Assurance Authority (Department of National Defence) - Canadian-based Contractor	2014-06-26
D5515C	Quality Assurance Authority (DND) - Foreign-based and	2010-01-11

	United States Contractor	
D5540C	ISO 9001:2008 Quality Management Systems - Requirements (QAC Q)	2010-08-16
D5604C	Release Documents - Foreign based Contractor	2008-12-12
D5605C	Release Documents - US based Contractors	2010-01-11
D5606C	Release Documents - Canadian-based Contractors	2012-07-16
D9002C	Incomplete Assemblies	2007-11-30
B4019C	United States Military Specification and Standard	2015-02-25
G1005C	Insurance	2016-01-28

6.11 Inspection and Acceptance

The Technical Authority 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.

6.12 Preparation for Delivery

The vehicle / equipment must be serviced, adjusted and delivered in condition for immediate use. The interior and exterior must be cleaned before leaving the factory and being released to inspection authority or consignee personnel at the final delivery location.

The fuel tanks must be at least half full prior to release of the vehicle(s) to inspection authority or consignee.

6.13 Shipping Instructions - Delivery at Destination

- 6.13.1 The Contractor must ship the goods prepaid DDP - Delivered Duty Paid (as detailed at Annex "A"- Pricing). Unless otherwise directed, delivery must be made by the most economical means. The Contractor is responsible for all delivery charges, administration, costs and risks of transport and customs clearance, including the payment of customs duties and taxes.

- 6.13.2 The Contractor must deliver the goods by appointment only. The Contractor or its carrier must arrange delivery appointments by contacting the contacts specified in Annex "A"- Pricing. The consignee may refuse shipments when prior arrangements have not been made.

6.14 Release Documents - Distribution

The Contractor must prepare the release documents in a current electronic format and distribute them as follows:

- a. One (1) copy mailed to consignee marked: "Attention: Receipts Officer";
- b. Two (2) copies with shipment (in a waterproof envelope) to the consignee;
- c. One (1) copy to the Contracting Authority;
- d. One (1) copy to:
National Defence Headquarters
Mgen George R. Pearkes Building
101 Colonel By Drive
Ottawa, ON K1A OK2
Attention: _____
- e. One (1) copy to the Quality Assurance Representative;
- f. One (1) copy to the Contractor; and
- g. For all non-Canadian contractors, one (1) copy to:
DQA/Contract Administration
National Defence Headquarters
Mgen George R. Pearkes Building
101 Colonel By Drive
Ottawa, ON K1A OK2
E-mail: ContractAdmin.DQA@forces.gc.ca

NOTE: For into-plane refuelling contracts b, c and d above are not required

6.15 Post-Contract Award Meeting/Pre-Production Meeting

Within ten (10) calendar days from the effective date of the Contract, the Contractor must contact the Contracting Authority to determine if a post-contract award meeting is required. A meeting will be convened at the discretion of the Technical Authority after contract award to review technical and contractual requirements. The Contractor shall be responsible for the preparation and distribution of the minutes of meeting within five

(5) calendar days after the meeting has been held. The meeting will be held at the Contractor's facilities or at the Department of National Defence facility or via teleconference, at Canada's discretion at no additional cost to Canada, with representatives of the Contractor, the Department of National Defence and Public Works and Government Services Canada.

6.16 Progress Reports

The Contractor must submit monthly reports, in electronic format, on the progress of the Work, to both the Technical Authority and the Contracting Authority.

Each progress report must address the following questions:

- (a) Is the delivery on schedule?
- (b) Is the Contract free of any areas of concern in which the assistance or guidance of Canada may be required?
- (c) Each negative response must be supported with an explanation.

6.17 Tools and Loose Equipment

For shipment verification, all items and tools, which are shipped loose with the vehicle/equipment must be listed on the Inspection Certificate (CF 1280) or on an attached packing note.

6.18 Material

Material supplied must be new unused and of current production by manufacturer. (2017 model-year or newer).

6.19 Design Changes

The "Design Change, Design Deviation and Waiver Procedure" as defined in National Defence Standard D-02-006-008/SG-0001 must apply.

6.20 Interchangeability

Unless changes during the production run are authorized by Contracting Authority, all vehicles supplied against any one item of a contract must be the same make and model, and all like assemblies, sub-assemblies and parts must be interchangeable.

6.21 Packaging

The methods used for preservation and packaging must be in conformity with the Contractor's normal standard for domestic shipment or, if necessary, with standards for overseas shipment as below deck cargo.

6.22 Service at Delivery

The Contractor must send a Service Representative to each delivery destination to perform the assembly/preparation on all vehicles delivered. Cost to provide this service must be included in the price of each vehicle.

6.23 Vehicle Recall Notices

All vehicle recall notices must be forwarded to:

National Defence Headquarters
MGen George R. Pearkes Building
101 Colonel By Drive
Ottawa, Ontario K1A 0K2

Attention: (designation and name of TA to be inserted by PWGSC at contract award)

ANNEX "A" - PRICING

Item 001 22000L Aircraft Refueller (Firm Quantity)

The Contractor must deliver the vehicle/equipment including all ancillary Items and Operator and Maintenance training (one session)(English) in accordance with the attached Annex "B" - Purchase Description – 22000L Aircraft Refueller.

The 22000L Aircraft Refueller and ancillary items must be delivered to:

427 Squadron
CFB Petawawa
Petawawa, Ontario K8H 2X3

Delivery contact: _____ (Name to be inserted by PWGSC at time of contract award.)

Date of delivery: _____ (Date to be inserted by PWGSC at time of contract award.)

Firm unit price of \$ _____ per vehicle, including all equipment and ancillary items, in accordance with Basis of Payment Type 1 (as detailed at Clause 6.5.1 Basis of Payment).

Quantity: three (3)

Item 002 22000L Aircraft Refueller (Optional Quantity)

If this option is exercised, the Contractor must deliver the vehicle/equipment including approved manuals and warranty letter(s) in accordance with the attached Annex "B" – Purchase Description – 22000L Aircraft Refueller

For Destinations in Petawawa Ontario;

Firm unit price of \$ _____ per vehicle, including all equipment and ancillary items, in accordance with Basis of Payment Type 1 (as detailed at Clause 6.5.1 Basis of Payment).

Quantity: Up to three (3)



NOTICE

This documentation has been reviewed by the technical authority and does not contain controlled goods.

AVIS

Cette documentation a été révisée par le responsable technique et ne contient pas de marchandises contrôlées.

PURCHASE DESCRIPTION FOR AVIATION REFUELLER 22,000 LITRES

1.0 SCOPE

1.1 Scope

This purchase description describes the requirements for all-wheel drive, dual compartment Aviation Refueller tank trucks with a capacity of 22,000 litres. These vehicles will be used for NATO F-34 (JP-8) and NATO F-37 (JP-8+100) helicopter fuelling and defuelling operations. The vehicles will incorporate pumping, filtration, metering, and overfill protection, and will incorporate two independent fuelling systems with tank capacities of 19,000 litres and 3,000 litres respectively.

1.2 Instructions

The following instructions must be used to interpret this specification:

- (a) Requirements, which are identified by the word “must”, are mandatory. Deviations will not be permitted;
- (b) Requirements identified with a “will” define actions to be performed by Canada and require no action/obligation on the Contractor’s part;
- (c) Where “must” or “will” are not used, the information provided is for guidance only;
- (d) In this document “provided” must mean “provided and installed”;
- (e) Where a technical certification is referred to in this specification, a copy of the certification or substantive information must be supplied for the vehicle when requested by the Technical Authority at no cost to Canada;
- (f) Metric measurements must be used to define the requirement. Other measurements are for reference only and may not be exact conversions; and
- (g) Nominal dimensions reflect a method by which materials or products are generally identified for sale commercially, but which differ from the actual dimensions.

1.3 Definitions

The following definitions apply to the interpretation of this Purchase Description:

- (a) “Technical Authority” - The government official responsible for technical content of this requirement;
- (b) “Equivalent” - A standard, means, or component type, which the Technical Authority approves for this application, in writing, as meeting the specified requirements for form, fit, function and performance;
- (c) "Vehicle" - The entire vehicle including all systems and sub-systems, in a complete manufactured state in accordance with the requirements in this Purchase Description;
- (d) “Road Legal” - Applies to a self-propelled vehicle designed for or capable of transporting persons, property, material or permanently or temporarily affixed apparatus on a highway;
- (e) “5th percentile adult female” – As defined in the *Motor Vehicle Safety Regulations (C.R.C., c. 1038)* a person having as physical characteristics a mass of 46.3 kg, height of 1499 mm, erect sitting height of 785 mm, normal sitting height of 752 mm, hip sitting breadth of 325 mm, hip sitting circumference of 925 mm, waist sitting circumference of 599 mm, chest depth of 191 mm, bust circumference of 775 mm, chest upper circumference of 757 mm, chest lower circumference of 676 mm, knee height of 455 mm, popliteal height of 356 mm, elbow rest height of 180 mm, thigh clearance height of 104 mm, buttock-to-knee length of 518 mm, buttock-to-poples length of 432 mm, elbow-to-elbow breadth of 312 mm and seat breadth of 312 mm;
- (f) “95th percentile adult male” – As defined in the *Motor Vehicle Safety Regulations (C.R.C., c. 1038)* a person having as physical characteristics a mass of 97.5 kg, height of 1849 mm, erect sitting height of 965 mm, normal sitting height of 930 mm, hip sitting breadth of 419 mm, hip sitting circumference of 1199 mm, waist sitting circumference of 1080 mm, chest depth of 267 mm, chest circumference of 1130 mm, knee height of 594 mm, popliteal height of 490 mm, elbow rest height of 295 mm, thigh clearance height of 175 mm, buttock-to-knee length of 640 mm, buttock-to-poples length of 549 mm, elbow-to-elbow breadth of 506 mm and seat breadth of 404 mm;
- (g) “Gross Axle Weight Rating (GAWR)” - The value specified by the vehicle manufacturer as the load-carrying capacity of a single axle system, as measured at the tire-ground interfaces;
- (h) “Gross Vehicle Weight Rating (GVWR) - The value specified by the vehicle manufacturer as the loaded weight of a single vehicle; and
- (i) “trade” – Means the selling, purchasing, exchanging, consigning, leasing or providing of any commodity, right, facility or service on the basis of measure and includes the business of providing facilities for measuring (commercial).

1.4 Applicable Documents

The following documents form part of this purchase description. Effective documents are those in effect on date of release of the RFP. Sources are as shown:

EI SPEC 1581 - Specifications and Laboratory Qualification Procedures for Aviation Fuel Filter/Water Separators

EI 1529 - Aviation Fuelling Hose and Hose Assemblies

Energy Institute (EI)
61 Cavendish Street
London, UK, WIG 7AR

API RP 1004 - Bottom Loading and Vapor Recovery for MC-306 & DOT-406 Tank Motor Vehicles
American Petroleum Institute (API)
1220 L Street, NW
Washington, DC 20005-4070

B620 - Highway Tanks and TC Portable Tanks for the Transportation of Dangerous Goods
B621 - Selection and Use of Highway Tanks, TC Portable Tanks, and Other Large Containers for the Transportation of Dangerous Goods Classes 3, 4, 5, 6.1, 8 and 9
B836 - Storage, Handling, and Dispensing of Aviation Fuels at Aerodromes
CSA C22.2 No. 42-10 – General use receptacles, attachment plugs, and similar wiring devices
Canadian Standards Association (CSA)
178 Rexdale Blvd.
Rexdale, Ontario M9W 1R3

CAN/CGSB 3.517 - Diesel Fuel
CAN/CGSB Standard 3.23 - Aviation Turbine Fuel (Grades JET A and JET A-1)
Standards Council of Canada
55 Metcalfe Street, Suite 600
Ottawa, ON, K1P 6L5

Motor Vehicle Safety Regulations (MVSr)
Government of Canada, Transport Canada,
<http://www.tc.gc.ca/eng/act-regulations/regulations-crc-c1038htm>

NFPA 385 - Tank Vehicles for Flammable and Combustible Liquids
NFPA 407 - Standard for Aircraft Fuel Servicing
National Fire Protection Association (NFPA)
1 Batterymarch Park
Quincy, Massachusetts 02169-7471

Commercial Item Description A-A-50696 - Reels, Static Discharge, Grounding, 50 and 75 Foot Cable Lengths
GSA - Specification Section
470 L'Enfant Plaza
Suite 8100
Washington, DC 20407

R.S., 1985, c. W-6 - Weights and Measures Act
<http://laws-lois.justice.gc.ca/eng/acts/W-6/page-1.html>

Canadian Occupational Health and Safety Regulations (COHSR), 2015
<http://laws.justice.gc.ca/eng/regulations/sor-86-304/index.html>

ANSI-ASC A14.3-2008 - American National Standard for Ladders – Fixed – Safety Requirements
American National Standard Institute, Inc.
www.americanladderinstitute.org

NATO STANAG 4362 - Fuels for Future Ground Equipment Using Compression Ignition or Turbine Engines
<http://www.nato.int/>

Hazardous Products Act
Government of Canada
<http://laws-lois.justice.gc.ca/eng/acts/H-3/>

MIL-STD-209K – Department of Defence, Interface Standard for Lifting and Tie down Provisions
http://www.sddc.army.mil/sites/TEA/Functions/Deployability/TransportabilityEngineering/Modeling/Documents/MIL-STD-209K_2005-02-22.pdf

SAE ARP5818 – Design and Operation of Aircraft Refueling Tanker Vehicles
<http://www.sae.org>

2.0 REQUIREMENTS

2.1 Standard Design

The vehicle must:

- (a) Be the manufacturer's latest model;
- (b) Have demonstrated industry acceptability by having been manufactured and sold commercially for at least two (2) years, or be manufactured by a company that has at least five (5) years experience in design and manufacturing of a comparable type of equipment of equivalent or greater complexity;
- (c) Have engineering certification available, upon demand, for this application from the original manufacturers for major drive train components, and major equipment systems and assemblies, to demonstrate that assemblies are used within their design limitations;
- (d) 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. International equivalent laws, regulations, and industrial standards will be accepted only if certified for equivalency by a professional engineer;
- (e) Have system and component capacities equivalent to their published ratings (i.e. product or component brochures); and
- (f) Include all components, equipment and accessories normally supplied for the model offered, although they may not be specifically described in this Purchase Description;
- (g) Include components readily available for a minimum period of ten (10) years from the date of manufacture; and
- (h) Comply with Hazardous Products Act of Canada concerning the use of hazardous materials, ozone depleting substances, polychlorinated biphenyls, asbestos and heavy metals used in the manufacture and assembly of the product supplied

2.2 Operating Conditions

The unladen or fully laden vehicle must operate on airport runways, taxiways, and primary and secondary roads and off-road (e.g. construction sites, open fields and dirt tracks) under the extremes of weather conditions found in Canada in temperatures ranging from -40°C to +37°C in conditions including rain, snow, hail and freezing rain.

2.3 Safety Standards

The vehicle must:

- (a) Meet the provisions of the Motor Vehicle Safety Regulations (MVSr);
- (b) Have a Safety Compliance Certification Label with a National Safety Mark (NSM) as a seal of compliance, or be accompanied by a Vehicle Import Form containing proof of Inspection by the Registrar of Imported Vehicles;
- (c) Meet the requirements of NFPA 385 and NFPA 407, CSA B836, CSA B621, EI 1529, EI 1581, SAE ARP5818 and all other relevant standards normally used by industry;
- (d) Be certified to TC 406 pursuant to CSA B620; and
- (e) Meet the requirement of the Weights and Measures Act (R.S., 1985, c. W-6).

2.4 Transport Canada Registration

The contractor/sub-contractor must be registered with Transport Canada for the fabrication and assembly of Highway and Portable Tanks for the Transportation of Dangerous Goods pursuant to CSA-B620.

2.5 Human Engineering and Safety

The vehicle, all systems and components must:

- (a) Comply with the relevant sections of the COHSR;
- (b) Be safe and easy to use by a 95th percentile male to 5th percentile female under all operating conditions;
- (c) Have all entry and exit points equipped with handles and steps suitably sized and positioned to accommodate a 95th percentile male to 5th percentile female; and
- (d) Be equipped, where required for operator safety, with safety features such as warning and instruction plates, non-slip walking surfaces and heat shields.

2.6 Performance

The bidder must provide a computer generated vehicle performance prediction analysis for a fully loaded vehicle performed in conformance with SAE J2188, using proposed equipment engine and transmission.

2.6.1 Vehicle Performance

The vehicle, at GVWR, must:

- (a) Sustain a forward speed of at least 100 km/h (62.5 mph) and a cruising speed of at least 95 km/h (59.4 mph);

- (b) Have an engine, transmission and related equipment that is compatible with an operation cycle that includes long periods of slow driving and extensive idling;
- (c) Safely traverse and stop on a 20% (11.45 degrees) side slope; and
- (d) Be transportable on all provincial roads and highways by commercial low-bed trailers without any major modification.

2.6.2 Dimensions and Ratings

- (a) The vehicle must have road legal dimensions across Canada.
- (b) The GVWR of the vehicle must not be less than the sum of the unloaded vehicle mass, the cargo carrying capacity, and the product obtained by multiplying the designated seating capacity by 68kg as defined in the Motor Vehicle Safety Regulations (C.R.C., c. 1038).
- (c) Each GAWR must be equal to or less than the load rating of the weakest component in the axle system, i.e., axle housing, suspension, wheels, or tires.
- (d) The total load on each axle of the vehicle must not exceed the GAWR for that axle.
- (e) Axle loads must comply with all the provincial weight restrictions across Canada.
- (f) The vehicle must be designed to carry at a minimum 15,000L of fuel in the 19,000L compartment tank and zero (0) fuel in the 3,000L compartment and be within the provincial weight restriction across Canada while travelling on Canadian roads.
- (g) The center of gravity of the vehicle including the complete product tank, substructure, and mounted equipment under all loading conditions (full to empty) and driving positions must be in accordance with SAE ARP5818.
- (h) The truck must have a ground clearance of at least 30 cm (12 in) in areas other than at the axles, wheels and tires.
- (i) The truck must have a turning radius in accordance with SAE J695 of no more than 35 m (115 ft).

2.6.3 Transportability

Tie down provisions must be provided in accordance with MIL-SPEC-209K to secure the vehicle in case of transport by rail and road.

2.7 Truck

The requirements for the truck are given in the following sections.

2.7.1 Engine

The engine must:

- (a) Operate on ultra-low sulfur diesel fuel in accordance with CAN/CGSB Standard 3.517;
- (b) Have a conventional electrical starter (air start system is unacceptable);

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- (c) Have an automatic shutdown protection system for low oil pressure and high temperature to protect the engine during pumping operations when the operator cannot view the engine instruments;
- (d) Be Tier 4 (minimum) turbocharged and electronically controlled; and
- (e) Be equipped with an exhaust brake.

2.7.2 Engine Components

The engine must include:

- (a) A replaceable dry-type air filter that includes a filter restriction gauge;
- (b) Engine coolant for temperatures down to -34°C ; and
- (c) An exhaust system in accordance with NFPA 407 that is vertically mounted.

2.7.3 Truck Fuel System

The vehicle must be equipped with:

- (a) A self-regulating in-line electric or coolant type fuel heater to warm the fuel before it enters the fuel filter(s), and to maintain the fuel temperatures above the waxing/gelling point during cold weather operation; and
- (b) Insulated chassis fuel lines to maintain a constant temperature of the fuel when exposed to the extremes of weather conditions found in Canada.

2.7.4 Cold Weather Starting Aids

The vehicle must be equipped with:

- (a) A 110-volt coolant block heater of the highest wattage capacity recommended by the engine manufacturer;
- (b) A fuel filter/water separator incorporating a thermostatically controlled heater;
- (c) A removable cold weather front of a design approved for use by the engine and truck OEM that does not generate excessive thermal stress within the radiator(s) and does not interfere with the intercooler operation;
- (d) A cold weather starting system as follows:
 - i. Air intake heater system or glow plugs; and
 - ii. 110-volt battery heater(s) having wattage matched to battery size to prevent battery damage due to overheating;
- (e) A self-sustaining engine coolant heater. Eberspaecher engine coolant heater is suggested for this application.

Note: All electrical cold weather aids must be connected together with a single, cover-protected, external electrical power plug in accordance to CSA-C22.2-Wiring Devices.

2.7.5 Power Train

The vehicle must have a power train that consists of components transmitting power from the engine output shaft to driven wheels as follows:

- (a) A factory installed 6x6 all-wheel drive system warrantied by the chassis manufacturer that delivers power to all wheels.
- (b) Include an electronically controlled fully automatic transmission as follows:
 - i. Minimum of six (6) forward speeds including double overdrive;
 - ii. One (1) reverse speed;
 - iii. Include an oil cooler and replaceable oil filter;
 - iv. Include a transmission oil dipstick; and
 - v. Shift control indicated the selected gear, visible in all lighting conditions;
- (c) Include a “Park” or “Neutral” starting interlock;
- (d) Include tandem rear axle with dual wheels and a limited slip or driver controlled locking differential(s) on the drive axle(s); and
- (e) Include a guard to prevent product tank and equipment damage resulting from failed driveshaft components.

2.7.6 Power Take Off (PTO)

The dual pumping systems must be driven by PTO shafts or hydraulic motors. If a PTO system is used, it must:

- (a) Be a hot-shift PTO controllable by the operator from the cab; and
- (b) Include a heavy-duty drive shaft with a safety guard covering the PTO shaft.

2.7.7 Steering

The vehicle must be equipped with a power assisted steering system with a telescopic/tilt steering column.

2.7.8 Brakes

The vehicle must be equipped with the manufacturer's standard braking system including a parking brake.

2.7.9 Brake Interlock

The vehicle must be equipped with a brake interlock in accordance with CSA B836 as follows;

- (a) Prevents the vehicle from being moved when:
 - i. Any catwalk fold-down safety rail is raised;
 - ii. The PTO is engaged (if a PTO is provided);
 - iii. Any product tank internal valve is open;
 - iv. Any connection is made to a bottom loading adapter and vapour recovery; and
 - v. Any refueling nozzle is removed from the storage hook;
- (b) Equipped with amber warning lights and audible alarm mounted in the cab that will come on whenever an interlock protected component is removed or dislodged from its stowed position;
- (c) In case of emergency, the brake interlock system must have a provision to override the interlock system and allow the brakes to be released.

- (d) The interlock override device must bear a seal to prevent tampering when not in use.
- (e) A dash mounted red indicator light must signal the driver that the brake interlock is being overridden.
- (f) Interlock protected components include the following:
 - i. Locking securing device (e.g., clevis or locking pins); and
 - ii. Identified with safety warning labels;
- (g) When the vehicle speed exceeds 10 kph (6 mph), the brake interlock must not engage and apply the brakes even when an interlock condition exists or a protected component is released from its storage hook.

2.7.10 Wheels and Tires

The vehicle must:

- (a) Be equipped wheels and tires selected in accordance with MVSR Technical Standards document number 120, Revision 1R;
- (b) Have treads for use in the complete range of operating conditions;
- (c) Include valve extensions for inner tires, if used, to allow for easy access; and
- (d) Include a full-size spare wheel and tire with on-board provision for mounting/storage.

2.7.11 Chassis

The chassis must:

- (a) Be a full frame truck (no frame extensions to be used); and
- (b) Be designed so that it can be towed from the front or rear (not suspended) of the vehicle by commercial tow trucks while loaded to capacity.

2.7.12 Cab

The vehicle must include the following:

- (a) Conventional cab (i.e., not be a cab-over style);
- (b) A minimum of two doors for entry and egress;
- (c) Extended cab by a minimum of 66 cm (26 in) to accommodate a fold-down bunk and storage area;
- (d) A factory installed air conditioning system;
- (e) High output temperature controlled forced air heater and defroster;
- (f) Large windshield to provide maximum visibility;
- (g) Tinted glass/windows to reduce solar heating effects;

- (h) Power windows and power door locks;
- (i) Overhead map lights;
- (j) Cruise control;
- (k) Electric windshield washers;
- (l) Electric, intermittent windshield wipers capable of clearing the windshield during driving operations, and where the wiper blades **do not** travel from a vertical center windshield position to a horizontal position near the roof line;
- (m) High-back, fully adjustable, air suspended driver and passenger seats with cloth inserts and arm rest on both sides. An armrest on the door is acceptable;
- (n) Retractable 3- point shoulder/lap belt assemblies for the driver and the passenger;
- (o) Two folding (rearward) aerodynamic, heavy-duty, heated, motorized, rear view mirrors which provide a full length view of the product tank, to include a convex section and painted the same colour as the cab or finished in a bright metallic non-painted colour;
- (p) Two rotating and pivoting dual interior sun visors;
- (q) A clear plastic stone and bug deflector mounted on the front hood;
- (r) Premium insulation (cab and floor), dark upholstery, coat hooks and armrests on both doors;
- (s) Heavy duty rubber matting or spray polyurethane coating installed over the entire floor;
- (t) Manufacturer's standard interior trim;
- (u) Interior and instrument panel lights to provide adequate lighting for nighttime operations;
- (v) A back-up camera with a driver accessible screen with a minimum size of 12.7 centimetres (5 inches) wide;
- (w) An AM/FM radio with a CD player and auxiliary jack;
- (x) Minimum two (2) USB charging ports and one (1) cigarette-lighter style 12-volt plug; and
- (y) Dash coffee cup holders (minimum 2).

2.7.13 Controls and Instruments

The vehicle must be equipped with:

- (a) Instruments and controls that are readily visible and within reach of the operator seated in the vehicle driver's seat;
- (b) Instruments as follows minimum:
 - i. A tachometer;

- ii. An odometer showing cumulative distance in kilometres and engine running time up to at least 9,999 hours;
 - iii. A fuel gauge;
 - iv. A coolant temperature gauge with a high coolant temperature indicator;
 - v. An oil pressure gauge with a low engine oil pressure indicator;
 - vi. A voltmeter or ammeter;
 - vii. A low air pressure indicator;
 - viii. If a PTO is provided, an indicator light within the cab and at the pumping station to indicate when the PTO is engaged; and
 - ix. A Diesel Exhaust Fluid (DEF) level gauge.
- (c) Controls as follows:
- i. Permanently marked to identify and show the function of each control lever or switch;
 - ii. Sized and spaced in accordance with SAE AIR1375 Revision C; and
 - iii. Included the following as a minimum:
 - a. A differential lock control with an engaged/disengaged indicator; and
 - b. A back up alarm with an On/Off over-ride switch within reach of the driver;

2.7.14 Truck Electrical System

The vehicle must be equipped with manufacturer's standard 12-volt electrical system that includes:

- (a) Brushless alternator with sufficient output at low RPM to supply current to all batteries and all electrical load requirements for fuelling operations;
- (b) A master disconnect switch for electrical system accessible from ground level on the driver's side;
- (c) Wiring protected by insulating grommets where passing through metal;
- (d) Electrical circuits protected with fuses, relays or circuit breakers; and
- (e) An isolation bar to prevent trickle discharge of the batteries.

2.7.15 Batteries

The vehicle must be equipped with the following:

- (a) Minimum four (4) heavy-duty maintenance free batteries with a total cold cranking ampere capacity of at least 2700 (CCA); and
- (b) A battery box as follows:
 - i. Located in an accessible and well protected area; and
 - ii. Include battery hold-downs and heat shielding (if necessary).

2.7.16 Truck Lights

The vehicle must be equipped with the manufacturer's standard lighting, using LED lights where available, as follows:

- (a) Contrary to CMVSS, include a single manually-operated switch that shuts off all light emitting sources internal and external to the vehicle (i.e., complete black-out including brake lights, dash lights, headlights, etc.); and

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- (b) Includes the following lights:
 - i. Two (2) chassis mounted front headlights with high/low beam;
 - ii. Two (2) chassis mounted front fog lights inserted into the bumper; and
 - iii. Front and rear black-out lights.

2.8 Refuelling System

The requirements for the refueling system are given in the following sections.

2.8.1 Fuel Types

The product tank, pumping, filtration, metering, delivery and piping equipment supplied must be compatible with NATO F-34 (JP-8) and NATO F-37 (JP-8+100) fuel.

2.8.2 Fuelling System - 19,000 L Compartment

The fuelling systems must:

- (a) Permit low-pressure (overwing) fuelling as follows:
 - i. All fuel delivered must be filtered and then metered; and
 - ii. Incrementally or infinitely variable fuelling flow up to a maximum of 570 litres (151 US gallons) per minute, controllable from the pumping station;
- (b) Permit defuelling the product tank compartment through the 6.4 cm (2.5 in) bottom loading adapter while the vehicle is disabled (No air or electrical operation on the truck);
- (c) Be designed to allow for Hot Closed Circuit Refuelling (HCCR) operations (hot-refuelling).

2.8.3 Fuelling/Defuelling System – 3,000L Compartment

The fuelling systems must:

- (a) Permit low-pressure (overwing) fuelling as follows:
 - i. All fuel delivered must be filtered and then metered;
 - ii. Incrementally or infinitely variable fuelling flow controllable from the pumping station.
- (b) Permit low-pressure (overwing) defuelling as follows:
 - i. All reclaimed fuel must be filtered and then metered before being returned to the product tank compartment; and
 - ii. Incrementally or infinitely variable defuelling flow with a minimum range of 50 to 166.6 litres (13.2 to 44 US gallons) per minute, controllable from the pumping station.
- (c) Permit defuelling the product tank compartment through the 6.4 cm (2.5 in) bottom loading adapter while the vehicle is disabled (No air or electrical operation on the truck);

2.8.4 Overfill Protection

Each product tank compartment must have overfill protection as follows:

- (a) High-Level - A high-level shutdown system installed to prevent the overfilling of the product tank during defuelling or when bottom loading through the API 6.5 cm (2.5 in) and 10 cm (4 in) adaptors; and
- (b) Electronic - Electronic overfill/retain protection for bottom loading through the API 6.5 cm (2.5 in) and 10 cm (4 in) adaptors as follows:
 - i. Compatible with API RP 1004 commercial loading-racks;

- ii. Include the following:
 - a. Thermistor socket;
 - b. 4 J-slot Optic socket; and
 - c. A float socket.

Note: A system manufactured by Scully, Civacon or FloTech is suggested for this application.

2.8.5 Product Tank

The following applies:

- (a) Must have two (2) compartments as follows:
 - i. One (1) 19,000 litre compartment;
 - ii. One (1) 3,000 litre compartment; and
 - iii. Plus an additional allowance of 3% for expansion per compartment;
- (b) Material - The product tank assemblies, including any components directly welded to the tank, but not including piping components, must be constructed of aluminum alloy;
- (c) Baffles – Each compartment must include baffles with flanged apertures with a minimum 60 cm (24 in) inside diameter for personnel access;
- (d) Manhole - The product tank must have manholes as follows:
 - i. 19,000 litre compartment - at least two (2) manholes, one (1) forward and one (1) at the rear of the compartment;
 - ii. 3,000 litre compartment - at least one (1) manhole;
 - iii. Manhole covers as follows:
 - a. Hinged, installed with the hinge closest to the front of the vehicle; and
 - b. At least 50 cm (20 in) in diameter;
 - iv. All manholes accessible from a tank top catwalk;
- (e) Piping - All piping must be either aluminum or stainless steel appropriate for use for refueling operations. Connections made by Victaulic couplings or companion flanges must be used where required. Dissimilar metals must be protected from galvanic corrosion;
- (f) Sump - A sump must be provided within each product tank compartment to trap water that has a volume of at least 1.0% of the tanks nominal capacity. Fuel supplied to the product tank and fuel suction from the tank must not be via the sump. Sump must be sloped and fitted with a self-closing nominal 1-inch gate valve to ensure it can be fully drained of accumulated water;
- (g) Vapour Recovery - The tank must incorporate a vapour recovery system conforming to API RP 1004 as follows:
 - i. Include a connector located near the bottom-loading connectors; and
 - ii. Equipped with an override/bypass mode for situations where vapour recovery is not present;
- (h) Catwalk - A full-length catwalk in accordance with the Canada Occupational Health and Safety Regulations must be provided at the top of the tank as follows:
 - i. Not present a hazard to personnel or interfere with top-mounted equipment; and
 - ii. Walking area equipped with a non-slip surface and automatic fold-down safety rails operable from the ground, coated with a fuel resistant rubberized compound to increase grip and to provide thermal insulation;

- (i) Rollover - All outlets, valves, closures, piping, or any devices that if damaged in an accident could result in a loss of product must be protected with an accident damage protection system in accordance with CSA B620 with drains as follows:
 - i. Provided on all four (4) bottom corners of the rollover protection; and
 - ii. Drain lines minimum 3.8 cm (1.5 in) diameter to drain liquids from the center of the rollover sections;
- (j) Ladder - A heavy duty aluminum ladder in accordance with the Canada Occupational Health and Safety Regulations must be provided to safely and easily access the top of the tank as follows:
 - i. Include rungs that are at least 10 cm (4 in) deep by 45.7 cm (18 in) wide;
 - ii. A ladder frame as follows:
 - a. Minimum step distance of 28 cm (11 in);
 - b. No less than 15 cm (6 in) clearance between the tank and the ladder at any point;
 - c. Rises at least 25 cm (10 in) above the height of the rollover protection rails and then curve downward to meet the rails; and
 - d. Have flexible type joints, if attached to the vehicle chassis, to relieve flexing stress between the chassis and the tank;
 - iii. Grab handles to provide safety of ascent and descent as follows:
 - a. Handrail on each side of the ladder; and
 - b. Handles on the top of the tank that are continuous with the handrails on the sides of the ladder.

2.8.6 Fuel Pumps

The pumping system must include fuel pumps as follows:

- (a) Self-priming centrifugal type aviation fuel pump for the 19,000 litre compartment;
- (b) Positive displacement pump for the 3,000 litre compartment;
- (c) Designed to work with an engine high idle as may be required in cold weather operation, with all components operating within manufacturer's specifications at this higher idle speed;
- (d) Have an output capable of meeting the design flow rates and pressure requirements of the dispensing system;
- (e) Include an easily accessible stainless steel screen located on the inlet side of each pump;
- (f) Automatically drop to low speed and pressure when a closed discharge is encountered;
- (g) Capable of operating without appreciable wear, damage, or overheating against a closed discharge at low speed and pressure for a period of fifteen (15) minutes.

2.8.7 Valves and Vents

The following applies:

- (a) Internal valves must be capable of being repaired and replaced from the tank exterior; and
- (b) Vent valves must each be equipped with a fire screen, hood, and air filter;

- (c) Product Loading Valves - The bottom loading system is the primary means of receiving product and must include the following:
- i. A 10 cm (4 in) bottom loading adapter system conforming to API RP-1004, located on the curb side of the vehicle with a protective cap and lanyard to protect the adaptor when not in use; and
 - ii. A 6.4 cm (2.5 in) bottom loading adapter system (NSN 1560-00-949-2087), located on the curb side of the vehicle with a protective cap and lanyard to protect the adaptor when not in use.

2.8.8 Filtration

Each product tank compartment must be equipped with its own filter-separator filtration system.

2.8.8.1 Filtration System - 19,000L Compartment

- (a) The filtration system must be designed, manufactured and qualified to EI 1581, Category M and M100, using a single make/model for the coalescer and separator as follows:
- i. Filter vessel: Velcon model HVA-1838M150 and made of aluminum;
 - ii. Filter element (Stage 1): Velcon model I-638A4TB-CAT (NSN 4330-20-006-9352); and
 - iii. Filter element (Stage 2): Velcon model SO-636CM (NSN 4330-01-544-3410);
- (b) The filtration system must be equipped with the following:
- i. A Water Defence in accordance with CSA B836 with an indicating light on the Pumping Control Panel to indicate a water shutdown condition; and
 - ii. Fuel sampling ports, for quality control checks, at the inlet and outlet of the filter vessel and next to the recirculation adaptor as follows:
 - a. Incorporate valves and quick connect couplings compatible with the match weight monitor sampling kit, NSN 6695-21-800-0032; and
 - b. Couplings protected by dust covers retained by lanyards;
- (c) Filter vessel to be cleaned and new filters installed prior to delivery, and one (1) complete spare set of filters to be provided with each vehicle.

2.8.8.2 Filtration system - 3,000L compartment

- (a) The filtration system must be designed, manufactured and qualified to EI 1581, Category M and M100, using a single make/model for the coalescer and separator as follows:
- i. Filter vessel: Velcon model HVA-1218M150X and made of aluminum;
 - ii. Filter element (Stage 1): Velcon model I-618A4 (NSN 4330-20-007-1188); and
 - iii. Filter element (Stage 2): Velcon model SO-318C (NSN 4330-20-007-1187);
- (b) The filtration system must be equipped with the following:
- i. A Water Defence in accordance with CSA B836 with an indicating light on the Pumping Control Panel to indicate a water shutdown condition; and
 - ii. Fuel sampling ports, for quality control checks, at the inlet and outlet of the filter vessel and next to the recirculation adaptor as follows:
 - a. Incorporate valves and quick connect couplings compatible with the match weight monitor sampling kit, NSN 6695-21-800-0032; and
 - b. Couplings protected by dust covers retained by lanyards;

- (c) Filter vessel to be cleaned and new filters installed prior to delivery, and one (1) complete spare set of filters to be provided with each vehicle.

2.8.9 Additive Injection System

The additive injection system must be provided for the 19,000 litre product tank compartment as follows:

- (a) Be the Gammon Technical Products Digital Viper additive injection system (part # GTP-9076DF-12VDC-100) to inject the high temperature thermal stability additive NATO S-1749, known commonly as “+100”, at a rate of 256 parts per million parts fuel;
- (b) Have a reservoir as follows:
 - i. Hold sufficient additive to treat at least 150,000 litres of fuel;
 - ii. Be equipped with a drain and a shut-off valve to allow for servicing;
 - iii. Be sealed from the atmosphere when the system is not in use and have a breather system as follows:
 - a. Replacement air to the reservoir dried by desiccant while additive is being drawn; and
 - b. Desiccant changes colour to indicate required replacement;
 - iv. Be identified with painted letters “NATO S-1749 OTAN”;
- (c) Have an additive low-level warning light installed on the pumping control panel that turns on when there is just enough additive in the reservoir to treat one (1) product tank full of fuel; and
- (d) Default to off until activated by the operator, and reset to off after each fuelling.

2.8.10 Fuel Delivery Equipment

The following fuel delivery equipment must be provided:

- (a) Overwing Fuelling (19,000 litre compartment) - Filtered and metered product dispensed through a nominal 5 cm (2 in) system consisting of the following components:
 - i. Hose Reel - An electric or air-assisted fuel hose reel as follows:
 - a. The capacity to hold, at minimum, 30.5 m (100 ft) of 5 cm (2 in) inside diameter hard walled hose;
 - b. Include a brake and locking device; and
 - c. Have a manual hand crank (with a storage provision near the reel for a removable crank);
 - d. Equipped with a hose guiding system.
 - ii. Hose – 30.5 m (100 ft) of 5 cm (2 in) inside diameter hose (P/N PLT– 200X100MM) installed on the hose reel with all required fittings and ends as follows:
 - a. Free end to have a 5 cm (2 in) female dry break coupling and dust plug; and
 - b. Other end connected to the hose reel;
 - iii. Nozzle - A 3.8 cm (1.5 in) fuelling nozzle (OPW 295SAJ-0200 (NSN 4930-01-567-6286) is suggested for this application) with the following:
 - a. 100 mesh screen;
 - b. Protective cap;
 - c. Grounding plug cap;
 - d. Grounding clamp part #ALS-10A (NSN 5999-00-134-5844); and
 - e. A male dry break adaptor and swivel;
 - iv. Closed Circuit Refuelling Nozzle - One (1) Carter model 64017Z (NSN 4930-01-370-3061) to be provided;

- (b) Overwing Fuelling/Defuelling (3,000 litre compartment) - Filtered and metered product dispensed through a nominal 3.8 cm (1.5 in) system consisting of the following components:
- i. Hose Reel - An electric or air-assisted fuel hose reel as follows:
 - a. The capacity to hold, at minimum, 16.8 m (55 ft) of 3.8 cm (1.5 in) inside diameter hard walled hose;
 - b. Include a brake and locking device; and
 - c. Have a manual hand crank (with a storage provision near the reel for a removable crank);
 - ii. Hose - 16.8 m (55 ft) of 3.8 cm (1.5 in) inside diameter hose (P/N PLT-150X55MM) installed on the hose reel with all required fittings and ends as follows:
 - a. Free end to have a 3.8 cm (1.5 in) female dry break coupling and dust plug; and
 - b. Other end connected to the hose reel;
 - iii. Nozzle - A 3.8 cm (1.5 in) fuelling nozzle (OPW 295SAJ-0200 (NSN 4930-01-567-6286) is suggested for this application) with the following:
 - a. 100 mesh screen;
 - b. Protective cap;
 - c. Grounding plug cap;
 - d. Grounding clamp part #ALS-10A (NSN 5999-00-134-5844); and
 - e. A male dry break adaptor and swivel.
- (c) Recirculation System - A system to permit fuel recirculation through the pump, filter and hose back into their respective product tank compartment. Any additional equipment required for recirculation must be provided. Loose equipment must have a stowage provision inside a storage container.

2.8.11 Other equipment

The following equipment must be provided:

- (a) Secondary containment berm as follows:
- i. Located in an easily accessible dedicated weatherproof aluminum storage box with a non-locking door; and
 - ii. Labeled "Secondary Containment Berm, Berme de Confinement Secondaire" in 5 cm (2 in) high grey or silver text on a black or red background;
- (b) Spill Kit - A fuel spill kit, such as the AF Pollution Abatement Systems Inc. AF16, as follows:
- i. Located in an easily accessible dedicated weatherproof aluminum storage box with a non-locking door; and
 - ii. Labeled "Spill Kit, Trousse de déversement" in 50 cm (2 in) high black text;
- (c) Fire Blanket - A fire blanket, such as the Steel Fire Equipment FB64 or equivalent, as follows:
- i. Be a three-ply consisting of two layers of woven glass fabric with an inner layer of fire-retardant material;
 - ii. Be nominal 122 cm x 183 cm (48" x 72");
 - iii. Be located in a fire engine red painted aluminum weatherproof storage canister that:
 - a. Has a self-latching door that does not interfere with removal of the blanket; and
 - b. Is labeled "Fire Blanket, Couverture Anti-Feu" in 50 cm (2 in) high red letters on a white background;
- (d) Fire Extinguishers - Fire extinguishers as follows:
- i. Exterior Fire Extinguishers - Two (2) fire extinguishers in accordance with CAN/ULC-S503 or CAN/ULC-S504 (minimum 20-BC rated) as follows:

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- a. Minimum 9 kg (20 lb) Purple-K dry chemical extinguishers;
 - b. Secured with heavy duty mounting brackets; and
 - c. Located on either side of the vehicle;
 - ii. Interior Fire Extinguisher - A fire extinguisher, suitable for low temperature, as follows:
 - a. Ansul Fire Protection Sentry K-5 5 kg (11 lb) dry chemical (Purple K) extinguisher; and
 - b. Mounted in an appropriate bracket in a readily accessible area within the vehicle cab;
- (e) Wheel Chocks - Two (2) wheel chocks capable of restraining a fully loaded vehicle as follows:
 - i. Be made from a fuel resistant elastomeric compound; and
 - ii. Have a mounting bracket incorporated into the body for the storage of both wheel chocks that is positioned for easy access on the driver side of the vehicle;
- (f) Nozzle Hooks – Nozzle storage hooks with brake interlock mounted at each of the fuelling hose reels such that the nozzles do not require removal from the hose prior to placement into the respective hook;
- (g) Hose - Two (2) 5.06 cm (2 in) inside diameter hoses (P/N PLT-200x20MM) as follows:
 - i. 6 m (20 ft) in length each;
 - ii. Male and female dry break couplings and dust plugs on each end;
 - iii. Mounted in hose tubes on the side of the product tank;
- (h) Dipstick – A product tank dipstick and a depth chart;
- (i) Operator Tool Kit - Including wheel wrench, jack(s) and all other daily maintenance/emergency roadside repair equipment, stowed in a storage cabinet; and
- (j) First Aid – A first aid and burn kit in the vehicle cab (such as the Uline H-1875 and H-4173).

2.8.12 Body

The following applies:

- (a) Material - As follows:
 - i. All skirting, fenders, cabinet boxes, and cabinet doors must be constructed of aluminum alloy; and
 - ii. All cabinet doors must be supported by stainless steel piano hinges;
- (b) Cabinets – The body must incorporate weatherproof cabinet for storage of equipment as follows:
 - i. Have elastomeric seals and gutters to prevent the ingress of dust, debris, and water;
 - ii. Have door holders to hold them in the open position and latches (if required) to keep the doors open in high wind conditions;
 - iii. Have recessed positive locking door handles with a padlocking provision;
 - iv. Have locks on the cabinet doors that can be opened by one master key;
 - v. Pumping Cabinet - Include a pumping cabinet as follows:
 - a. Enclose the meter(s), fuelling hose reels, low pressure hose reel, pumping control panel, and related equipment, with sufficient room around the equipment for ease of maintenance and operation;
 - b. Positioned at the rear of the product tank with a door to access the hose reels; and
 - c. Have a solid sloping floor with a drain;

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- vi. Storage Cabinet - Minimum one (1) storage cabinet on either side of the vehicle must be provided for storage of nozzles and loose items as follows:
 - a. Have top hinged one-piece doors;
 - b. Have a solid floor lined with removable open grid elastomeric matting for protecting tools and the compartment finish; and
 - c. Include tie-downs or equipment holders to secure loose items;
- vii. Containment Cabinet - Minimum one (1) storage cabinet located on either side of the vehicle must be provided for storage of a secondary containment berm kit and the spill kit as follows:
 - a. Have top hinged one-piece doors; and
 - b. Include tie-downs or equipment holders to secure loose items;
- (c) Fenders – All wheels must be equipped with fenders to retain road splash;
- (d) Mud flaps – Mud flaps must be provided;
- (e) Bumper - Heavy-duty, full width, front and rear bumpers must be provided as follows:
 - i. Be designed such that the fully loaded vehicle can be pushed without damage; and
 - ii. Have recessed lights and reflectors (if required);
 - iii. Have rubber push pads;
- (f) Tow Hooks - The vehicle must be equipped with tow hooks as follows:
 - i. Two (2) front and two (2) rear tow hooks or loops of sufficient strength and mounting to permit the recovery of the fully loaded vehicle; and
 - ii. Tow points to be fully accessible without having to crawl under the vehicle;
- (g) License Plate Holder – One (1) illuminated license plate holder at the rear of the vehicle and one (1) license plate holder at the front of the vehicle must be provided.

2.8.13 Controls

All controls necessary for the operation of the pumping system must be:

- (a) Grouped within the pumping control panel;
- (b) Permanently marked to identify and show their function in English and French, or international symbols as defined by SAE J1362; and
- (c) Properly sized and arranged to allow personnel wearing Cold Wet Weather Gloves (NSN 8415-21-920-9019) to operate the equipment.

2.8.14 Pumping Controls

The following applies:

- (a) Throttling Valve - A throttling valve must be installed between the meter and the hose reel of each product tank compartment to control the flow rate as follows:
 - i. Be a manually controlled, graduated, locking type, lever operated throttling valve;
 - ii. Be readily accessible to the operator; and
 - iii. Used to control the fuelling or defuelling flow rate;
- (b) Deadman - A deadman control must be provided to initiate or terminate fuelling or defuelling operations as follows:

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- i. Have a cable of at least 30.6 m (100 ft) in length; and
 - ii. Have a spring-retracting reel provided for the electrical cable;
- (c) Fuel/Defuel - A control must be installed on the pumping control panel for the 3,000 litre compartment to allow the operator to select between fuel and defuel operations;
- (d) Internal Valve Controls – Switches must be installed on the pumping control panel for opening and closing the internal valves of the product tank compartments with a visual means of indicating open or closed position of the valves; and
- (e) Emergency Shut-Off – Two (2) emergency shut-off controls must be provided as follows:
- i. One (1) located on each side of the vehicle in accordance with NFPA 407;
 - ii. Each identified with the words "EMERGENCY FUEL SHUTOFF" in letters of at least 5 cm (2 in) high in accordance with NFPA 407; and
 - iii. Identify the action to be taken in case of an emergency by arrow or the appropriate wording (i.e., "PUSH" or "PULL").

2.8.15 Instruments

All instruments necessary for the operation of the pumping system must be:

- (a) Grouped within the pumping control panel; and
- (b) Permanently marked to identify their function.

2.8.16 Pumping Instruments

The following applies:

- (a) Product Meter - Two (2) electronic fuel meters must be provided, one for each product tank compartment, as follows:
 - i. Located after the filtering system;
 - ii. Meter all fuel delivered/recovered through the pumping system to the aircraft;
 - iii. Include a bypass in case the metering system becomes non-functional, with a seal to prevent tampering when not in use;
 - iv. Display the fuel dispensed in litres;
 - v. Be clearly visible and within reach of an operator standing on the ground at the control panel; and
 - vi. Be certified for trade by Measurements Canada as specified by the Measurement Canada Approval Number S.WA-0368 Rev. 9;
- (b) Fuel Management System – The vehicle must be equipped with the Liquid Controls LCR-II Data Management System that performs the following functions:
 - i. Maintain flight schedules;
 - ii. Perform inventory stock control;
 - iii. Provide meter totalizer readings;
 - iv. Provide electronic temperature compensation; and
 - v. Allow data transmission between vehicle and office via removable media, with the potential for wireless transmission;
- (c) Delivery Slip Printer - A delivery slip printer must be provided, located in the vehicle cab, that prints delivery slips that should include the following information:
 - i. Header: National Defence / Défense Nationale Name and Address of the Trader;

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- ii. Ticket Number;
 - iii. Squadron Number, Aircraft Type and Number;
 - iv. Home base/Country of Origin;
 - v. Date, Start Time, and End Time;
 - vi. Truck Number;
 - vii. Defuel Mode – Not for Trade;
 - viii. Net Volume, Gross Volume, Volume Correction Statement and Type of Fuel Issued;
 - ix. Issued By: Operator name and signature block; and
 - x. Accepted by: service number, rank, name, and signature block;
- (d) Fuel Pressure Differential Gauge - A direct reading differential pressure gauge must be provided as follows:
- i. Have a range of 0 to 206.8 kPa (0 to 30 psi);
 - ii. Be Gammon Technical Products GTP-8980-G connected to read the differential pressure across the filter-separator;
 - iii. Have a peak pressure hold feature that is capable of being reset; and
 - iv. Have a differential pressure proximity switch that can stop the flow;
- (e) Flow Rate Display - Minimum one (1) electronic flow rate display must be provided as follows:
- i. Display in Litres per Minute; and
 - ii. Display all fuel rates being delivered through the pumping system to the aircraft
- (f) Fuel Level Display - A fuel level measurement system in each product tank compartment must be provided as follows:
- i. Display product tank level with overfill and low level protection;
 - ii. Be Titan Logix TD 80 with dual displays as follows:
 - a. Main display located on the bottom loading side; and
 - b. Remote display located in the control panel cabinet.

2.8.17 Electrical System

The following applies:

- (a) Wiring must be installed in conduit or employ encapsulated cable. The tubing must run the full length between components or enclosures without splicing;
- (b) All wiring (conductors) must be full-length from component to component without any splicing;
- (c) Electrical circuits for installed equipment must be protected by identified vapour proof automatic circuit breakers in the form of push buttons;
- (d) All wiring must be labelled at each connecting end;
- (e) Grommets must be used when wiring passes through sheet metal.

2.8.18 Electrical Equipment

The following applies:

- (a) Grounding Studs – Grounding studs must be installed as follows:
 - i. At least ten (10) brass grounding studs installed at the following locations:
 - a. One (1) as close as possible to each of the three (3) manhole covers;

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- b. Two (2) studs must be located near the bottom loading and recirculation adaptors;
 - c. Two (2) studs must be installed as close as possible to the lower rear corners of the product tank;
 - d. Two (2) studs must be installed on the front bumper, one on each side; and
 - e. One (1) stud must be located close to the recirculation adaptor;
 - ii. The grounding studs must:
 - a. Be unpainted brass; and
 - b. Each be labelled with red circle measuring 10 cm (4 in) in diameter, centred on or placed next to the stud with the words “Ground” and “Borne de terre” within the circle;
- (b) Grounding Cables – Two (2) grounding cables and reels must be provided as follows:
- i. NSN 4930-01-334-5812 (100 foot cable);
 - ii. Include recoil reels and grip clamps (part #ALS-10A (NSN 5999-00-134-5844)) installed in the pumping cabinet;
- (c) Bonding – The engine, cab, product tank, chassis frame, fuel delivery components and other metal parts must be electrically bonded;
- (d) Power Inverter - A 12 VDC to 120VAC power inverter must be provided as follows:
- i. Minimum 2 kW power inverter;
 - ii. Equipped with a protective cover; and
 - iii. Supply two 15 Amp, GFI, duplex outlets, in weatherproof enclosures located conveniently for passenger use;
- (e) Lighting - The following lighting must be provided:
- i. Work lighting - A minimum of three (3) Betts Industries Model 325503 (NSN 6240-01-662-5626) LEDs lights installed in locations to permit the operator to direct the aim of the light on the work area in any direction from the vehicle, with a control switch(es) for the lights located in the cab;
 - ii. Cabinet Lighting - Red and white LED lights located in the servicing and pumping control cabinets as follows:
 - a. Vapour proof switches in the respective cabinets to control the lighting;
 - b. Lighting master controlled when the pumping system is powered up; and
 - c. An additional adjustable light installed to illuminate the ground surrounding the cabinet to a radius of at least 2.5 meters (8.2 ft);
 - iii. Strobe Light - Equipped with a low profile amber strobe light protected by a bush guard, with a quick disconnect electrical connector and mounted on a pedestal behind the cab at the roof line with a switch mounted within the cab.

2.9 Hydraulic System

If applicable, the hydraulic system must be complete with all required components for the operation of the installed hydraulic equipment including pump, motors, actuator, cylinders, reservoir, oil cooler, filters with change indicators, clearly marked test ports and control valves. The reservoir, if applicable, must be labelled with approved hydraulic fluid and reservoir capacity.

2.10 Lubricants

The Aviation Refueller must be delivered with the manufacturer's standard lubricants and fluids consistent with the delivery location and season. The refueller must not require the use of manufacturer's special lubricants and hydraulic fluids following break-in period.

2.11 Paint

The following procedures apply to painting the cab, chassis, cabinets, tank and all piping (not including inside cabinets):

- (a) The Aviation Refueller must be painted in the manufacturer's standard painting process that yields a durable finish with a smooth appearance free of runs, sags and orange peel in accordance with the following
 - i. All external surfaces and components of the Aviation Refueller must be painted; and
 - ii. Non-ferrous interior components (e.g., piping, fittings, etc.) must not be painted except where required for durability or leak detection;
- (b) Chrome and chromed decorative features must not be employed or painted on the external finish;
- (c) Prior to painting, all ferrous metals must undergo phosphate conversion coating or E-coating and aluminum components must undergo a cleaning and etching treatment;
- (d) The prime coating must be a high durability corrosion resistant type, such as epoxy; and
- (e) The Aviation Refueller vehicle and tank must be painted white and all other components in the manufacturer's standard color scheme.

2.12 Corrosion Resistant Materials

The vehicle must:

- (a) Be designed to prevent galvanic corrosion; and
- (b) Utilize materials in the manufacturing process that resist damage or deterioration from cleaning with hot or cold water, steam and detergents.

2.13 Corrosion Protection

In addition to standard factory rust proofing, aftermarket rust proofing must be provided such as Krown Rust Control or Rust Check, and a decal and warranty for the coating provided with the vehicle upon delivery.

2.14 Identification

The following applies:

- (a) A stamped plate must be installed on the body in a conspicuous and protected location that permanently indicates, at minimum, the following information:
 - i. Cab and chassis manufacturer, date of manufacture, and serial number;
 - ii. Body (including product tank, cabinets, etc.) manufacturer, date of manufacture, and serial number; and
 - iii. Vehicle tare weight (GVWR and GAWR);
- (b) A corrosion-resistant metal identification plate must be permanently affixed to the tank or its supporting structure in accordance with CSA B620 that indicates product tank compartment capacities.

2.15 Warning and Instruction Plates

The vehicle must be equipped with warning and equipment operation instruction plates as follows:

- (a) Be in bilingual (English and French) format and within easy view of the operator;
- (b) Include the following as a minimum:
 - i. Operating instructions;
 - ii. Fuel Flow Diagrams including location of valves;
 - iii. Warning label for proper handling of the +100 additive, mounted in a conspicuous location near the reservoir;
 - iv. Engraved metal plate labels for valves, gauges, controls, fuel system service points, product tank sump, drain points and sampling locations, attached with rivets in conspicuous locations;
 - v. Four (4) dangerous goods placard holders with placards for product "1863" located on each side of the vehicle (front, back and each side); and
 - vi. Include the words "FLAMMABLE" and "NO SMOKING" on all four sides of the vehicle.

2.16 Conspicuity Tape

Strips of reflective tape (such as 3M Scotchlite Diamond Grade 980) must be applied in accordance with the Motor Vehicle Safety Regulations (MVSr).

3.0 INTEGRATED LOGISTIC SUPPORT

3.1 Deliverable Information

The Contractor must provide the following Deliverable Information:

- (a) Equipment Manuals –The following manuals must be provided:
 - i. Operator's Manual – A copy of the Operator's manual in both hard copy and electronic (MS Word or PDF format) with each vehicle as follows:
 - a. Bilingual format or as two (2) manuals (one English, one French); and
 - b. Contain the description, operation, maintenance and routine repair of the complete equipment, including sub-systems, as follows:
 - 1. Instructions for the safe operation of the vehicle in cold and hot weather;
 - 2. Pre-operation and post-operation inspections;
 - 3. Daily operator maintenance instructions/checks (including lubrication); and
 - 4. Safety Warnings;
 - ii. Maintenance (Shop Repair) Manual - A copy of the Maintenance (Shop Repair) Manual in both hard copy and electronic (MS Word or PDF format) to the delivery location as follows:
 - a. Bilingual format or as two (2) manuals (one English, one French); and
 - b. Contains the following information:
 - 1. A trouble shooting guide, showing the steps and tests required to determine the exact cause of a problem and an explanation of what steps would be required to correct a problem;
 - 2. A listing of the necessary tolerances, torque levels, fluid volumes required;
 - 3. A listing of any special tools required (including item part numbers);
 - 4. An electrical circuit diagram outlining all the electrical components in the vehicle; and
 - 5. Information on the order of disassembly and assembly of the systems and components of the vehicle;

- iii. Parts Manual – A copy of the Parts Manual in English in both hard copy and electronic (MS Word or PDF) format to the delivery location, which contains the following information:
 - a. Illustrations showing all components of the vehicle including equipment and accessories from other manufacturers that is supplied against the requirements of the contract. The illustrations must have numbers for the itemization of the parts;
 - b. A listing for all itemized parts showing the manufacturer's part numbers (including Original Equipment Manufacturer's), the part name and a brief description of the item; and
 - c. Cross reference relating all part numbers (including Original Equipment Manufacturer's) to the correct figure and item number;
- iv. Miscellaneous Equipment Manuals – A hard copy of each of the Miscellaneous Equipment Manuals to the delivery location, in English, for assemblies not produced by the Prime manufacturer that are added to the vehicle, including the following information:
 - a. Operating Instructions;
 - b. Parts Manual; and
 - c. Maintenance Manual (Shop Repair);

*Note: Manuals provided on CD/DVDROM must **not** require installation, password and/or Internet connection to be accessed and must be an unlocked PDF in a searchable format.*

- (b) Data Summary - A bilingual Data Summary for the vehicle by completing the TA's template with data and vehicle pictures (in electronic format) as follows:
 - i. One left-front three-quarter view; and
 - ii. One right-rear three-quarter view;
- (c) Dimensional Drawing – A drawing in all three views that gives dimensions of vehicle components, sizes, etc. with the vehicle part number and manufacturer's name;
- (d) Warranty Letter – A paper copy of the completed bilingual Warranty Letter delivered with the vehicle, and a copy of the Warranty Letter in electronic format (PDF) delivered to the Technical Authority including the following:
 - i. A list of all Canadian designated warranty service providers that will honor the warranty for the equipment and attachments (if applicable) procured under this contract, including the contact person and phone number at each warranty service provider;
 - ii. Additional warranty coverage of sub-systems and a copy of the warranty letter from each subsystem's OEM;
 - iii. Warranty period as negotiated in the contract; and
 - iv. Contractor contact information, name and phone number, for warranty support.
- (e) Recommended Spare Parts List - A hard copy list detailing the spare parts deemed necessary to maintain the vehicle for a period of 12 months exclusive of any warranty period, including the following information for each item:
 - i. Item name;
 - ii. Contractor's part number;
 - iii. Original manufacturer's number;
 - iv. Original manufacturer's NATO Supply code (NCAGE) or name and address;
 - v. NSN (NATO Stock Number) (if known);
 - vi. Quantity per equipment;
 - vii. Quantity recommended;

- viii. Unit price; and
 - ix. Unit of issue;
- (f) Preventive Maintenance Replacement Parts List - A hard copy list detailing the parts required to perform preventive maintenance for the system for a period of 12 months including the following information for each item:
- i. Item name;
 - ii. Contractor's part number;
 - iii. Original manufacturer's number;
 - iv. Original manufacturer's NATO Supply code (NCAGE) or name and address;
 - v. NSN (NATO Stock Number) (if known);
 - vi. Quantity per equipment;
 - vii. Quantity recommended;
 - viii. Unit price; and
 - ix. Unit of issue;
- (g) Special Tools List - A hard copy itemized list of specific special tools required for the servicing and repair of the vehicle including the following information for each item:
- i. Item name;
 - ii. Original manufacturer's part number;
 - iii. Quantity recommended per equipment;
 - iv. Unit price; and
 - v. Unit of issue;

3.2 Training

The Contractor must deliver training as follows:

- (a) Operator Training - An operator training session, in English, dealing with the specific features and capabilities of the equipment as follows:
- i. One (1) day (eight (8) hours maximum) operator training for a up to six (6) DND candidates at the delivery location at a date and time as arranged with the Technical Authority;
 - ii. Include the following:
 - a. Features of the vehicle and fuelling system;
 - b. Daily maintenance/service;
 - c. Safety systems and precautions; and
 - d. Operating procedures including fuelling, defuelling and recirculation operations;
 - iii. Provide each candidate with a "Proof of Operator Training" certificate signed by the Contractor and a DND representative;
- (b) Maintenance Training - A maintenance training session, in English, dealing with vehicle and fuelling system maintenance as follows:
- i. Two (2) day (eight (8) hours per day maximum) maintenance training for up to six (6) DND candidates at the delivery location at a date and time as arranged with the Technical Authority;
 - ii. Include the following:
 - a. Features of the vehicle and fuelling system;
 - b. Operating procedures including fuelling, defuelling and recirculation operations;
 - c. Safety systems and precautions;
 - d. Trouble shooting;
 - e. Equipment test and adjustment;

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- f. Special tools and test equipment; and
 - g. All first and second line maintenance procedures;
 - iii. Provide each candidate with a flow chart showing fuelling, defuelling and recirculation operations for both high and low flow rate, an air diagram and an electric diagram display; and
 - iv. Provide each candidate with a "Proof of Maintenance Training" certificate signed by the Contractor and a DND representative;
- (c) Training Video - Operator and maintainer training videos to be provided for use during initial training and retained by DND for refresher training covering all training subjects noted above. The video must be delivered on CD/DVD-ROM, be interactive and of high quality of 1600x720 pixels minimum resolution, and **not** require installation, password and/or Internet connection to be accessed;

3.3 Safety Recalls and Servicing Data

The following information must be provided to the Customer location, on a continuing basis, throughout the life expectancy of the vehicle (10 years):

- (a) Safety recalls; and
- (b) Manufacturer's technical service bulletins.

Note: This service can be made available as an Internet Service.

TECHNICAL INFORMATION QUESTIONNAIRE

This questionnaire covers technical information, which must be provided for evaluation of the configuration(s) of the vehicle offered.

Where the specification paragraphs below indicate “Proof of Compliance”, the “Proof of Compliance” must be provided for each performance requirement/specification.

Offerors should indicate the document name/title and page number where the “Proof of Compliance” can be found.

Definitions for *Equivalent* and *Proof of Compliance* are found in the DEFINITIONS section at the end of this document.

OFFEROR INFORMATION

Bidder Name:

Date:

COMPLIANCE

Equipment proposed complies with all requirements specified in the Purchase Description.

YES ☐ NO ☐

SUBSTITUTES/ALTERNATIVES

Are any substitutes/alternatives offered as *Equivalent* to any requirement specified in the Purchase Description?

YES ☐ NO ☐

If yes, please identify all substitutes/alternatives offered as *Equivalents* below and indicate where in the proposal related information can be found:

SPECIFICATION PARAGRAPHS

2.1(b) Client References - Proof of Compliance

The bidder ***must*** provide details of contracts related to the design, manufacture, and delivery of complete refuelling tenders of at least (2) two models of refuellers. The bidders ***must*** provide the following information:

- i. Client and delivery location;
- ii. Year completed; and
- iii. List of make and models

Client references information can be found in:

Document: _____ Page: ____

2.4 Transport Canada Registration - Proof of Compliance

The Contractor/Sub-Contractor must be registered with Transport Canada for the manufacture and assembly of Highway and Portable Tanks for the Transportation of Dangerous Goods pursuant to CSA-B620.

CSA-B620 TC 406 certification for the **manufacture** and for the **assembly** can be found in:

Document: _____ Page: ____

2.6 Performance - Proof of Compliance

The bidder ***must*** provide a computer generated vehicle performance prediction analysis for a fully loaded vehicle which ***must*** be performed in conformance with SAE J2188, using proposed equipment engine and transmission.

Proof of compliance can be found in:

Document: _____ Page: ____

2.6.1 Vehicle Performance - Proof of Compliance

- (a) Speed:

Maximum forward speed:

Cruising speed

Proof of compliance can be found in:

Document: _____ Page: ____

2.6.2 Dimensions and Ratings - Proof of Compliance

- (a) Dimensions:

Total height of the vehicle:

Total length of the vehicle:

Total width of the vehicle:

Proof of compliance can be found in:

Document: _____ Page: ____

(b) Gross Vehicle Weight Rating (GVWR):

Proof of compliance can be found in:

Document: _____ Page: ____

(c) Gross Axle Weight Rating (GAWR) for each axle:

Proof of compliance can be found in:

Document: _____ Page: ____

(f) Turning Radius:

Proof of compliance can be found in:

Document: _____ Page: ____

2.7.1 **Engine - Proof of Compliance**

(a) The engine must operate on ultra-low sulfur diesel fuel in accordance with CAN/CGSB Standard 3.517:

Proof of compliance can be found in:

Document: _____ Page: ____

2.7.6 **Power Take Off - Proof of Compliance**

The dual pumping systems must be driven by PTO shafts or hydraulic motors:

Proof of compliance can be found in:

Document: _____ Page: ____

2.8.8.1 **Filtration System – 19,000L Compartment - Proof of Compliance**

(a) i Filter vessel make/model:

i.i Filter Element Stage 1 make/model:

iii Filter Element Stage 2 make/model:

Proof of compliance can be found in:

Document: _____ Page: ____

2.8.8.2 **Filtration System – 3,000L Compartment - Proof of Compliance**

(b) i Filter vessel make/model:

i.i Filter Element Stage 1 make/model:

iii Filter Element Stage 2 make/model:

Proof of compliance can be found in:

Document: _____ Page: ____

2.8.9 **Additive Injection System - Proof of Compliance**

(a)i Make/model:

Proof of compliance can be found in:

Document: _____ Page: ____

2.8.16 **Pumping Instruments - Proof of Compliance**

(a) Product meter make/model:

Proof of compliance can be found in:

Document: _____ Page: ____

(b) Fuel management system make/model:

Proof of compliance can be found in:

Document: _____ Page: ____

(f) Fuel level display make/model:

Proof of compliance can be found in:

Document: _____ Page: ____

2.11 **Paint - Proof of Compliance**

(e) Paint colour:

Proof of compliance can be found in:

Document: _____ Page: ____

DEFINITIONS

“Equivalent” - A standard, means, or component type, which has been accepted by the Technical Authority as meeting the specified requirements for form, fit, function and performance;

“Proof of Compliance” - An unaltered document, such as a brochure and/or technical literature and/or a third party test report provided by a nationally and/or internationally recognized testing facility and/or a report generated by a nationally and/or internationally recognized third party software. The document must provide detailed information on each performance requirement and/or specification. Where a document submitted as Proof of Compliance does not cover all the performance requirements and/or specifications or when no such document is available or when modifications to the original equipment or customization are required to achieve the performance requirements and/or specifications, a Certificate of Attestation (as a separate document) signed by a senior engineer representing the Original Equipment Manufacturer (OEM) detailing the modifications and how they meet the performance requirements and/or specifications must be provided. The certificate must detail all performance requirements and/or specifications required to substantiate compliance. One certificate can be provided for one or all performance requirements and/or specifications;

ANNEX "C" to PART 5 – BID SOLICITATION

FEDERAL CONTRACTORS PROGRAM FOR EMPLOYMENT EQUITY - CERTIFICATION

I, the Bidder, by submitting the present information to the Contracting Authority, certify that the information provided is true as of the date indicated below. The certifications provided to Canada are subject to verification at all times. I understand that Canada will declare a bid non-responsive, or will declare a contractor in default, if a certification is found to be untrue, whether during the bid evaluation period or during the contract period. Canada will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply with any request or requirement imposed by Canada may render the bid non-responsive or constitute a default under the Contract.

For further information on the Federal Contractors Program for Employment Equity visit Employment and Social Development Canada (ESDC) -Labour's website.

Date: _____ (YYYY/MM/DD) (If left blank, the date will be deemed to be the bid solicitation closing date.)

Complete both A and B.

A. Check only one of the following:

- ☐ A1. The Bidder certifies having no work force in Canada.
- ☐ A2. The Bidder certifies being a public sector employer.
- ☐ A3. The Bidder certifies being a federally regulated employer being subject to the *Employment Equity Act*.
- ☐ A4. The Bidder certifies having a combined work force in Canada of less than 100 employees (combined work force includes: permanent full-time, permanent part-time and temporary employees [temporary employees only includes those who have worked 12 weeks or more during a calendar year and who are not full-time students]).

A5. The Bidder has a combined workforce in Canada of 100 or more employees; and

- ☐ A5.1. The Bidder certifies already having a valid and current Agreement to Implement Employment Equity (AIEE) in place with ESDC -Labour.

OR

() A5.2. The Bidder certifies having submitted the Agreement to Implement Employment Equity (LAB1168) to ESDC -Labour. As this is a condition to contract award, proceed to completing the form Agreement to Implement Employment Equity (LAB1168), duly signing it, and transmit it to ESDC C-Labour.

B. Check only one of the following:

() B1. The Bidder is not a Joint Venture.

OR

() B2. The Bidder is a Joint Venture and each member of the Joint Venture must provide the Contracting Authority with a completed annex Federal Contractors Program for Employment Equity - Certification. (Refer to the Joint Venture section of the Standard Instructions)