



**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 0A1 / Noyau 0A1  
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**

<b>Title - Sujet</b> HOT WEATHER SAFETY BOOTS	
<b>Solicitation No. - N° de l'invitation</b> W8476-123712/A	<b>Date</b> 2012-11-20
<b>Client Reference No. - N° de référence du client</b> W8476-123712	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$\$PR-707-61565	
<b>File No. - N° de dossier</b> pr707.W8476-123712	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2013-02-20</b>	
<b>Time Zone</b> Fuseau horaire Eastern Daylight Saving Time EDT	
<b>F.O.B. - F.A.B.</b> Specified Herein - Précisé dans les présentes	
<b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input type="checkbox"/> <b>Other-Autre:</b> <input checked="" type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Elder, Sylvie	<b>Buyer Id - Id de l'acheteur</b> pr707
<b>Telephone No. - N° de téléphone</b> (819) 956-3830 ( )	<b>FAX No. - N° de FAX</b> (819) 956-3830
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b>  Specified Herein Précisé dans les présentes	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

**Vendor/Firm Name and Address**

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

**Issuing Office - Bureau de distribution**

Clothing and Textiles Division / Division des vêtements et des textiles

11 Laurier St./ 11, rue Laurier  
6B1, Place du Portage  
Gatineau, Québec K1A 0S5

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

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## **PART 1 - GENERAL INFORMATION**

### **1. SECURITY REQUIREMENT**

There is no security requirement associated with the requirement.

### **2. REQUIREMENT**

This Request for Proposal (RFP) is for the provision of 60,000 pairs of Hot Weather Safety Boots (HWSB), 10,000 pairs of spare laces and 10,000 pairs of insoles, for the Department of National Defence all as specified in Annex B-Performance Specification, and three (3) options to purchase additional pairs of HWSB, as detailed in Part 6-B-"Main Contract".

A contract for the provision of 60 pairs of HWSB for User Acceptance Trials (as set out in Part 6-A Trial Contract) will be awarded prior to the award of the Main Contract.

### **3. DEBRIEFINGS**

After the award of the Main contract, bidders may request a debriefing on the results of the bid solicitation process. Bidders should make the request to the Contracting Authority within 15 working days of receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

## **PART 2 - BIDDER INSTRUCTIONS**

### **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 (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-conditions-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 (2012-11-19) 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) calendar days

Insert: one hundred and eighty (180) calendar days

### **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.

### **3. ENQUIRIES - BID SOLICITATION**

All enquiries must be submitted in writing 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

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the proprietary nature of the question is eliminated, and the enquiry can be answered with copies to all bidders. Enquiries not submitted in a form that can be distributed to all bidders may not be answered by Canada.

#### **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.

#### **5. TECHNICAL DATA AND SEALED PATTERN**

Technical data and sealed pattern (if applicable) may be viewed (by appointment only) at the following offices:

Public Works & Government Services Canada  
Supply Directorate  
6th floor  
1550 ave D'Estimauville  
Quebec, Que. G1J 0C7  
TEL: 418-649-2840 or 418-649-2872  
FAX: 418-648-2209

Public Works & Government Services Canada  
Place Bonaventure, South-East Portal  
800 de La Gauchetière Street West, 7th Floor  
Montreal, Quebec H5A 1L6  
TEL: 514-496-3404  
FAX: 514-496-3822

Public Works & Government Services Canada  
Suite 480, 33 City Centre Drive  
Mississauga, Ont. L5B 2N5  
TEL: 905-615-2070  
FAX 905-615-2060

Public Works & Government Services Canada  
Suite 100, 167 Lombard Avenue  
P.O. Box 1408  
Winnipeg, Manitoba R3C 2Z1  
TEL: 204-983-3774  
FAX: 204-983-7796

Public Works & Government Services Canada  
Pacific Region SOSB, Industrial & Commercial Products  
12th Floor, 800 Burrard Street  
Vancouver, B.C V6Z 2V8  
TEL: (604) 775-7630  
FAX: (604) 775-7526

## 6. SPECIFICATIONS AND STANDARDS

### 6.1 United States Military Specifications and Standards

The Bidder is responsible for obtaining copies of all United States (US) military specifications and standards which may be applicable to the requirement. These specifications and standards are available commercially, or may be obtained by visiting the US Department of Defense Website, at the following address:  
<http://dodssp.daps.dla.mil/>.

## 7. TRANSPORTATION COSTS INFORMATION (MAIN CONTRACT)

The Bidder must provide the following information concerning transportation costs for the delivery of the units to destination:

- (a) shipping weight by unit; \_\_\_\_\_
- (b) number of items by unit; \_\_\_\_\_
- (c) cubic measurement by unit; \_\_\_\_\_
- (d) number of units per shipment; \_\_\_\_\_
- (e) name of shipping point; \_\_\_\_\_
- (f) recommended method of shipment and carrier \_\_\_\_\_
- (g) Unit cost per Destination      WB941: \$ \_\_\_\_\_      W248A: \$ \_\_\_\_\_
- (h) Total cost \$ \_\_\_\_\_

## PART 3 - BID PREPARATION INSTRUCTIONS

### 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 (1 hard copy)

Prices must appear in the financial bid only. No price must be indicated in any other section of the bid.

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 are encouraged to:

- 1) use paper containing fibre certified as originating from a sustainably-managed forest and/or 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 demonstrate how they propose to meet the requirements and how they will carry out the Work (reference pre-award sample, Part 4, Evaluation Procedures, 1.1.1 Mandatory Technical Criteria).

### **Section II: Financial Bid**

Bidders must submit their financial bid in accordance with the Basis of Payment- Firm unit prices in Part 6, Resulting Contract Clauses, Section B - Main Contract, paragraph 6-Payment. The total amount of Goods and Services Tax (GST) is to be shown separately, if applicable.

#### **1.1 Exchange rate fluctuation**

C3011T 2010-01-11 Exchange rate fluctuation

### **Section III: Certifications**

Bidders must submit the certifications required under Part 5.

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

### **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.

(c) If the evaluating team is missing technical information to complete the evaluation, the Contracting Authority will request the information that the bidder must submit by fax or e-mail within 2 working days from request. The documents should be dated no later than the Request for Proposal closing date. Failure to comply with the request within the specified time frame will result in the bid being declared non-responsive.

#### **1.1 TECHNICAL EVALUATION (TRIAL CONTRACT)**

##### **1.1.1 MANDATORY TECHNICAL CRITERIA PHASE I - TECHNICAL VERIFICATION**

#### **PRE-AWARD SAMPLES AND SUPPORTING DOCUMENTATION**

As part of the technical evaluation, the Bidder must demonstrate its capability of meeting the technical requirements by providing with its bid, (a) a pre-award sample consisting of one (1) pair of Hot Weather Safety Boots (HWSB) in mondo point size 265/104 with an extra pair of laces and removable inserts and an appropriate care labelling and one (1) boot ( size 265/104) cut in half length wise, toe to heel to demonstrate how the boot is constructed, (b) test results and (c) certificates of compliance (listed at Annex H).

In addition to the physical examples (outlined at Annex H, Table 1), the test results (outlined at Annex H, Table II) and Certificates of Compliance to be provided at the Pre-Award stage, Contractors must submit a written description of the overall component, design and manufacturing process features. Any innovations must be described in general terms.

The Bidder must deliver the required pre-award samples, test results, certificates of compliance and description at no charge to Canada and must ensure that they are received with the bid at time and place of bid closing. Failure to submit the required pre-award samples, test results and certificates of compliance within the specified time frame will result in the bid being declared non-responsive.

The requirement for a pre-award samples, test results and certificates of compliance will not relieve the successful bidder from submitting samples, test results and certificates of compliance as required by the contract terms or from strictly adhering to the technical requirement of this Request For Proposal and any resultant contract.

The bidders can submit more than one style of boot

(a) Pre-award samples

The samples will be evaluated for quality of workmanship and conformance to specified materials and measurements in accordance with Annex H - Pre-award evaluation of the Hot Weather Safety Boot (HWSB).

Boots and packaging must not have any identifiable markings, including stamps, hang tag, markings inside or outside of the boots. Non compliance will result in the rejection of the pre-award samples

The bidder must ensure that the required pre-award samples are manufactured in accordance with the technical requirement and are fully representative of the bid submitted. Rejection of the pre-award samples will result in the bid being declared non responsive.

The samples submitted by the Bidder will remain the property of Canada.

(b) Test Results

Laboratory analysis of the product offered showing test results for specific tests listed at Annex H of physical properties detailed in the technical requirement must be provided with the pre-award sample. Testing must be performed by an independent accredited laboratory establishment and must be in accordance with the test methods detailed in the Requirement. Testing carried out by university textile testing laboratories will also be acceptable. Should a non-accredited laboratory be required for specific tests, approval must be sought and received in writing from the Contracting Authority in advance. Approval is at the sole discretion of the Crown and will be based on the assessment of the capability of the lab. The laboratory report must be dated within the 6 months of the solicitation posting date.

(c) Certificates of Compliance

Certificates of Compliance listed at Annex H are required

A Certificate of Compliance (C of C) is a written statement sent by the Contractor guaranteeing the full compliance of the product to the specification, or portion of the specification, referenced. This document must be on official company stationery; it must be current (within the 6 months of the solicitation posting date); it must make reference to the applicable specification and have the original signature of the company's designated representative. Canada reserves the right to verify the statements made in the C of C. Full test results, demonstrating the product's compliance, will be accepted in lieu of a C of C.

**1.1.2 POINT RATED TECHNICAL CRITERIA  
PHASE II - BID EVALUATION RATED REQUIREMENTS**

Phase II (bid evaluation rated requirements) will evaluate, in accordance with Annex D - Bid Evaluation Rated Requirements of the Hot Weather Safety Boot (HWSB), the Moisture Vapour Transfer Rate (MVTR), Average Weight and Overall Appearance of the samples.

Only the top 5 compliant boots ranked according to the combined scores of the MVTR and Average Weight, will be rated for Overall Appearance.

Only the top 3 compliant boots ranked according to the combined scores of the MVTR, Average Weight and Overall Appearance will be subject to the lowest cost per point calculation as set out in paragraph 1.3.1 Financial Evaluation.

If there is a tie in points, the tie breaker will be done by first choosing the best moisture vapour transmission rate (MVTR). If still tied, then the average weight will be used. The final tie breaker will be unit price of the boots for the firm quantity in Montreal.

## **1.2 TECHNICAL EVALUATION (MAIN CONTRACT)**

### **1.2.1 DELIVERY OF TRIAL BOOTS**

Following the award of the Trial Contract, the Contractor must supply 60 pairs of boots, to be evaluated via the User Acceptance Trial, within 60 calendar days from the effective date of the Trial Contract. Failure to submit the 60 pairs of boots within the specified time frame will result in the bid for the Main Contract being declared non-responsive.

### **1.2.2 PRE-TRIAL TECHNICAL EVALUATION**

A two (2) stage pre-trial technical evaluation, consisting of Stage I (Technical Verification of Bid Evaluation Rated Requirements) and Stage II (Workmanship and Construction Evaluation) will be completed in accordance with Annex J-Pre-Trial Technical Evaluation Requirements for the Hot Weather Safety Boot (HWSB) on all Trial quantities. Failure to pass the Pre-Trial Technical evaluation will result in the bid for the Main Contract being declared non-responsive.

### **1.2.3 USER ACCEPTANCE TRIAL**

A User Acceptance Trial will be conducted pursuant to Annex E- User Evaluation Trial. Failure to achieve a minimum of 60% user acceptance (results are averaged) will result in the bid for the Main Contract being declared non-responsive.

## **1.3 FINANCIAL EVALUATION**

### **1.3.1 FINANCIAL EVALUATION**

- a. The Bidder must submit firm unit prices in Canadian dollars, GST extra, DDP (Montréal, Québec and Edmonton, Alberta) Incoterms 2000, transportation costs included, all applicable Customs Duties and Excise taxes included.
- b. The Bidder must submit firm unit pricing, for all items and all destinations including options.
- c. The lowest cost per point calculation will be calculated for the top 3 technically rated boots by dividing the price by the total points received pursuant to Annex D where :
  - i. Price will be determined by taking the average of the sum of the 12 unit prices (quoted at Annex A).
  - ii. Total points is the sum score of Moisture Vapour Transmission Rate, Average Weight and Overall appearance.

### **1.3.2 SACC MANUAL CLAUSE**

A9033T 2012/07/16 Financial Capability

## **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.

### **2.1 TRIAL CONTRACT**

The responsive bid with the lowest cost per point as evaluated under paragraph 1.3.1 (c) will be recommended for award of a Trial Contract

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Should the bid with the lowest evaluated cost per point be declared non responsive, the next responsive bid with the lowest evaluated cost per point, as evaluated pursuant to 1.3.1 (c) above, will be recommended for award of a Trial Contract. If the second bidder is not compliant the process will be repeated one last time with the third bidder.

## **2.2 MAIN CONTRACT**

The bidder who is awarded a Trial Contract and maintains a responsive bid following the Annex E- User Acceptance Trial and Annex J- Pre-Trial Technical Evaluation will be recommended for award of the Main Contract. To be declared responsive, a bid must be found technically compliant and obtain a minimum average score of 60% on the User Acceptance Trial.

## **PART 5 - CERTIFICATIONS**

Bidders must provide the required certifications to be awarded a contract. Canada will declare a bid non-responsive if the required certifications are not completed and submitted as requested.

Compliance with the certifications bidders provide to Canada is subject to verification by Canada during the bid evaluation period (before award of a contract) and after award of a contract. The Contracting Authority will have the right to ask for additional information to verify the bidders' compliance with the certifications before award of a contract. The bid will be declared non-responsive if any certification made by the Bidder is untrue, whether made knowingly or unknowingly. Failure to comply with the certifications or to comply with the request of the Contracting Authority for additional information will also render the bid non-responsive.

## **1. 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 so inform the Bidder and provide the Bidder with a time frame within which to meet the requirement. Failure to comply with the request of the Contracting Authority and meet the requirement within that time period will render the bid non-responsive.

### **1.1 CODE OF CONDUCT CERTIFICATION**

#### **1.1.1 Code of Conduct and Certifications - Related documentation**

By submitting a bid, the Bidder certifies, for himself and his affiliates, to be in compliance with the Code of Conduct and Certifications clause of the Standard instructions. The related documentation hereinafter mentioned will help Canada in confirming that the certifications are true. By submitting a bid, the Bidder certifies that it is aware, and that its affiliates are aware, that Canada may request additional information, certifications, consent forms and other evidentiary elements proving identity or eligibility. Canada may also verify the information provided by the Bidder, including the information relating to the acts or convictions specified herein, through independent research, use of any government resources or by contacting third parties. Canada will declare non-responsive any bid in respect of which the information requested is missing or inaccurate, or in respect of which the information contained in the certifications is found to be untrue, in any respect, by Canada. The Bidder and any of the Bidder's affiliates, will also be required to remain free and clear of any acts or convictions specified herein during the period of any contract arising from this bid solicitation.

Bidders who are incorporated, including those bidding as a joint venture, must provide with their bid or promptly thereafter a complete list of names of all individuals who are currently directors of the Bidder. Bidders bidding as sole proprietorship, including those bidding as a joint venture, must provide the name of the owner with their bid or promptly thereafter. Bidders bidding as societies, firms, partnerships or associations of persons do not need to provide lists of names. If the required names have not been received by the time the evaluation of bids is completed,

Canada will inform the Bidder of a time frame within which to provide the information. Failure to comply will render the bid non-responsive. Providing the required names is a mandatory requirement for contract award.

Canada may, at any time, request that a Bidder provide properly completed and Signed Consent Forms (Consent to a Criminal Record Verification form- PWGSC-TPSGC 229) (<http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/formulaires-forms-eng.html>) for any or all individuals aforementioned within the time specified. Failure to provide such Consent Forms within the time period provided will result in the bid being declared non-responsive.

## 1.2 FEDERAL CONTRACTORS PROGRAM - CERTIFICATION

### 1.2.1 FEDERAL CONTRACTORS PROGRAM - \$200,000 OR MORE

1. The Federal Contractors Program (FCP) requires that some suppliers, including a supplier who is a member of a joint venture, bidding for federal government contracts, valued at \$200,000 or more (including all applicable taxes), make a formal commitment to implement employment equity. This is a condition precedent to contract award. If the Bidder, or, if the Bidder is a joint venture and if any member of the joint venture, is subject to the FCP, evidence of its commitment must be provided before the award of the Contract.

Suppliers who have been declared ineligible contractors by Human Resources and Skills Development Canada (HRSDC) are no longer eligible to receive government contracts over the threshold for solicitation of bids as set out in the *Government Contract Regulations*. Suppliers may be declared ineligible contractors either as a result of a finding of non-compliance by HRSDC, or following their voluntary withdrawal from the FCP for a reason other than the reduction of their workforce to less than 100 employees. Any bids from ineligible contractors, including a bid from a joint venture that has a member who is an ineligible contractor, will be declared non-responsive.

2. If the Bidder does not fall within the exceptions enumerated in 3.(a) or (b) below, or does not have a valid certificate number confirming its adherence to the FCP, the Bidder must fax (819-953-8768) a copy of the signed form LAB 1168, Certificate of Commitment to Implement Employment Equity.

<http://www.servicecanada.gc.ca/cgi-bin/search/eforms/index.cgi?app=profile&form=lab1168&dept=sc&lang=e> to the Labour Branch of HRSDC.

3. The Bidder, or, if the Bidder is a joint venture the member of the joint venture, certifies its status with the FCP, as follows:

The Bidder or the member of the joint venture

- (a) ( ) is not subject to the FCP, having a workforce of less than 100 full time or part-time permanent employees, and/or temporary employees having worked 12 weeks or more in Canada;
- (b) ( ) is not subject to the FCP, being a regulated employer under the *Employment Equity Act*, S.C. 1995, c. 44;
- (c) ( ) is subject to the requirements of the FCP, having a workforce of 100 or more full time or part-time permanent employees, and/or temporary employees having worked 12 weeks or more in Canada, but has not previously obtained a certificate number from HRSDC, (having not bid on requirements of \$200,000 or more), in which case a duly signed certificate of commitment is attached;
- (d) ( ) is subject to the FCP, and has a valid certificate number as follows: \_\_\_\_\_ (e.g. has not been declared an ineligible contractor by HRSDC).

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Further information on the FCP is available on the following HRSDC Website:  
<http://www.hrsdc.gc.ca/en/labour/equality/fcp/index.shtml>

### **1.3 CANADIAN CONTENT CERTIFICATION**

#### **SACC MANUAL CLAUSE**

A3050T            2010/01/11            Canadian Content Definition

#### **CANADIAN CONTENT CERTIFICATION**

This procurement is limited to Canadian goods.

The Bidder certifies that:

(    )    the goods offered are Canadian goods as defined in paragraph 1 of clause A3050T.

#### **PLANT LOCATION**

Items will be manufactured at: \_\_\_\_\_

### **1.4 SAMPLES AND PRODUCTION CERTIFICATION**

The Bidder certifies that:

(    ) the manufacturer who produced the pre-award samples will remain unchanged for the pre-production samples and full production of the contract quantity without the written permission of Canada.

## **PART 6 - RESULTING CONTRACT CLAUSES**

### **A. TRIAL CONTRACT**

#### **1.    SECURITY REQUIREMENT**

There is no security requirement associated with the requirement.

#### **2.    REQUIREMENT**

The Contractor must provide 60 pairs of the boots proposed in the Contractor's bid dated \_\_\_\_\_ made in accordance with the specification at Annex B in the sizes specified in the size roll at Annex F (Trial Quantity) to the following address:

Louis St-Laurent Building  
555 Boulevard de la Carrière  
Gatineau, Québec  
J8Y 6V7  
Attn: (to be advised at contract)

Boots and packaging must not have any identifiable markings, including stamps, hang tag, markings inside or outside of the boots. Non compliance will result in the rejection of the goods.

### **3. 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 ( <http://ccua-sacc.tpsgc-pwgsc.gc.ca/pub/acho-eng.jsp> ) Manual issued by Public Works and Government Services Canada.

#### **3.1 General Conditions**

2010A (2012/11/19), General Conditions - Goods (Medium complexity) apply to and form part of the Contract.

### **4. TERM OF CONTRACT**

#### **4.1 Delivery Date**

##### **Delivery Required (Mandatory)**

The delivery of the Trial Quantity must be completed within 60 calendar days from the effective date of the Contract.

Failure to submit the Trial Quantity within the specified time frame will be grounds for termination of the Contract for default.

##### **4.1.1 Shipping Instructions - Delivery at Destination**

1. Goods must be consigned to the destination specified in the Contract and delivered:

- (a) Delivered Duty Paid (DDP) (Gatineau, Québec) Incoterms 2000 for shipments from commercial contractor.

##### **4.1.2 Preparation for Delivery**

The Contractor must prepare the items for delivery in accordance with Canadian Forces Transportation Packaging Orders as outlined in Annex I.

#### **4.2 SACC Manual Clauses**

D5545C 2010/08/16 ISO 9001:2008 - Quality Management Systems - Requirements (QAC C)

### **5. AUTHORITIES**

#### **5.1 Contracting Authority**

The Contracting Authority for the Contract is:

Sylvie Elder

Public Works and Government Services Canada

Acquisitions Branch

Commercial and Consumer Products Directorate (CCPD)

Clothing & Textiles Division

Place du Portage, Phase III, 6A2

11 Laurier Street

Gatineau, Quebec K1A 0S5

Telephone : 819-956-3830 Facsimile: 819-956-5454

E-mail address: [sylvie.elder@tpsgc-pwgsc.gc.ca](mailto:sylvie.elder@tpsgc-pwgsc.gc.ca)

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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.

## 5.2 Project Authority

The Project Authority for the Contract is:

### Mailing/Shipping Address

Department of National Defence

101 Colonel By Drive

Ottawa, Ontario

K1A 0K2

Attn: DSSPM (to be advised at contract)

The Project Authority is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matter concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Project Authority, however the Project 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.

## 5.3 Technical Authority

The Technical Authority for this Contract is:

### Mailing/Shipping Address

Department of National Defence

101 Colonel By Drive

Ottawa, Ontario

K1A 0K2

Attn: DSSPM (to be advised at contract)

The Technical Authority 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 authorise 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.

## 5.4 Procurement Authority

The Procurement Authority for the Contract is:

### Mailing/Shipping Address

Department of National Defence

101 Colonel By Drive

Ottawa, Ontario

K1A 0K2

Attn: DLP (to be advised at contract)

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 authorise 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.

### 5.5 Contractor's Representative

The person responsible for :

#### General enquiries

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

Telephone No.: \_\_\_\_\_

Facsimile No.: \_\_\_\_\_

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

#### Delivery follow-up

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

Telephone No.: \_\_\_\_\_

Facsimile No.: \_\_\_\_\_

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

## 6. PAYMENT

### 6.1 Basis of Payment - Firm Price

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm price of \$23,809.52. Customs duties and transportation costs are included and Goods and Services Tax is extra, if applicable.

Canada will not pay the Contractor for any design changes, modifications or interpretations of the Work, unless they have been approved, in writing, by the Contracting Authority before their incorporation into the Work.

### 6.2 SACC Manual Clauses

H1000C 2008/05/12 Single Payment

## 7. INVOICING INSTRUCTIONS

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

2. Invoices must be distributed as follows:

- (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 Building  
101 Colonel By Drive  
Ottawa, ON K1A 0K2  
Attn: DLP 5-3-3

Note: The original invoice (PDF format) can be sent by e-mail to \_\_ (to be advised at contract award) \_\_ and must be stamped with the word "ORIGINAL" and the other copies must be stamped with the words "COPY DO NOT PAY".

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

(c) One (1) copy must be forwarded to the consignee.

#### 7.1 Release Documents - Distribution

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

- (a) **Copy 1:** mail to consignee marked: "Attention: Receipts Officer";
- (b) **Copies 2 and 3:** with shipment (in a waterproof envelope) to the consignee;
- (c) **Copy 4:** to the Contracting Authority;
- (d) **Copy 5:** to:

National Defence Headquarters  
Mgen George R. Pearkes Building  
101 Colonel By Drive  
Ottawa, ON K1A 0K2  
Attention: DLP 5-3-3

The original inspection document CF 1280 (pdf format) can also be sent by e-mail to \_\_ (to be advised at contract award) \_\_

- (e) **Copy 6:** to the Quality Assurance Representative;
- (f) **Copy 7:** to the Contractor;
- (g) **Copy 8:** all non-Canadian contractors 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

**8. CERTIFICATIONS**

Compliance with the certifications provided by the Contractor in its bid is a condition of the Contract and subject to verification by Canada during the term of the Contract. If the Contractor does not comply with any certification or it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

**8.1 SACC Manual Clauses**

A3060C 2008/05/12 Canadian Content Certification

**9. APPLICABLE LAWS**

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

**10. PRIORITY OF DOCUMENTS**

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

- a) The Articles of Agreement;
- b) the general conditions 2010A (2011/05/16), General Conditions - Goods (Medium Complexity);
- c) Annex B, Performance specification for hot weather safety boot;
- d) Annex F, Size Roll for Trial;
- e) Annex I, CFTPO- HWSB;
- f) The Contractor's bid dated \_\_\_\_\_ .

**11. DEFENCE CONTRACT**

SACC Manual Clause A9006C (2012/07/16) Defence Contract

**12. MATERIALS: CONTRACTOR TOTAL SUPPLY**

The Contractor will be responsible for obtaining all materials required in the manufacture of the items specified. The delivery stated for the items allows the necessary time to obtain such materials.

**13. PLANT CLOSING**

The Contractor's plant closing for Christmas holidays are as follows. During this time there will be no shipments.

Christmas Holiday FROM \_\_\_\_\_ TO \_\_\_\_\_

If the date of delivery falls within the plant closing period, the Contractor may postpone delivery of the Trial quantity by the same number of days as the plant closing period. For greater clarity, this article 13 does not extend the delivery of the Contract other than as expressly permitted within this article.

**14. PLANT LOCATION**

Items will be manufactured at: \_\_\_\_\_

**15. SUBCONTRACTOR(S)**

Solicitation No. - N° de l'invitation

W8476-123712/A

Amd. No. - N° de la modif.

File No. - N° du dossier

pr707W8476-123712

Buyer ID - Id de l'acheteur

pr707

CCC No./N° CCC - FMS No/ N° VME

W8476-123712

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The following subcontractor(s) will be utilised in the performance of the contract.

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

Location: \_\_\_\_\_

Value of subcontract: \$ \_\_\_\_\_

Nature of subcontracting work performed: \_\_\_\_\_

Subcontractors, other than those listed above, may not be utilised without the written permission of Canada.

## **16. OVERSHIPMENT**

Overshipment will not be accepted unless prior approval is obtained from the Contracting Authority.

## **17. SPECIFICATIONS AND STANDARDS**

### **17.1 United States Military Specifications and Standards**

The Contractor is responsible for obtaining copies of all United States (US) military specifications and standards which may be applicable to the requirement. These specifications and standards are available commercially, or may be obtained by visiting the US Department of Defense Website, at the following address: <http://dodssp.daps.dla.mil/>.

## **B. MAIN CONTRACT**

### **1. SECURITY REQUIREMENT**

There is no security requirement associated with the requirement.

### **2. REQUIREMENT**

The Contractor must provide the items detailed under the "Requirement" at Annex A.

### **3. 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 ( <http://ccua-sacc.tpsgc-pwgsc.gc.ca/pub/acho-eng.jsp> ) Manual issued by Public Works and Government Services Canada.

#### **3.1 General Conditions**

2010A (2012/11/19), General Conditions - Goods (Medium complexity) apply to and form part of the Contract.

#### **3.2 Warranty Period**

Subsection 9 of 2010A, General Conditions, "Warranty" is amended as follows:

Delete: twelve (12) months

Insert: twenty-four (24) months

#### 4. **TERM OF CONTRACT**

##### **4.1 Delivery Date**

###### **Delivery Required (Desirable) - Firm Quantity**

The first delivery must be made within 90 calendar days from the date of the written notice of approval of production samples and must be completed 24 months from the date of the written notice of approval of production samples at the rate of 1,000 pair per week.

Canada reserves the right to amend the size roll at no cost to Canada. The Contractor must advise the Contracting Authority before the production quantity has reached 70% of the firm quantity (42,000 pairs). If required, the Contracting Authority will amend the Contract to revise the size roll for the last 30% of the production quantity.

###### **Delivery Required (Desirable) - Option Quantity**

The first delivery must be made within 90 calendar days from the date of the contract amendment at the rate of 1,000 pair per week.

Size roles will be provided if the options are exercised.

##### **4.1.1 Delivery - Appointments**

The Contractor must make deliveries to Canadian Forces (CF) Supply Depots by appointment only. The Contractor or its carrier must arrange delivery appointments by contacting the Depot Traffic Section at the appropriate location shown below. The consignee may refuse shipments when prior arrangements have not been made.

(a) 7 CF Supply Depot Lancaster Park

Edmonton, Alta

780-973-4011, ext. 4524

(b) 25 CF Supply Depot Montreal

Montreal, Qué.

514-252-2777, ext. 2363

##### **4.1.2 Preparation for Delivery**

The Contractor must prepare the items for delivery in accordance with Canadian Forces Transportation Packaging Orders as outlined in Annex I.

##### **4.1.3 Shipping Instructions - Delivery at Destination**

1. Goods must be consigned to the destination specified in the Contract and delivered:

- (a) Delivered Duty Paid (DDP) (Montréal, Québec and Edmonton, Alberta) Incoterms 2000 for shipments from commercial contractor.

##### **4.2 Optional Goods**

The Contractor grants to Canada the irrevocable option to acquire the goods described under Annex B of the Contract, under the same terms and conditions and at the prices stated in the Contract. An option may

only be exercised by the Contracting Authority and will be evidenced through a contract amendment. At the sole discretion of Canada, the following options, if exercised may be exercised in any order:

-The Contracting Authority may exercise Option 1 at anytime within 24 months from the date of contract award.

-The Contracting Authority may exercise Option 2 at anytime within 36 months from the date of contract award.

-The Contracting Authority may exercise Option 3 at anytime within 48 months from the date of contract award.

Each option will only be exercised once and entitles Canada to the following rights:

- (a) an order for a minimum of 10,000 pairs up to a maximum of 20,000 pairs of boots;
- (b) to choose the distribution of sizes and delivery destination as set out in the contract; and
- (c) to change the colour of the boots at no additional cost.

#### **4.3 SACC Manual Clauses**

D5510C 2012/07/16 Quality Assurance Authority (DND) - Canadian-based Contractor

D5540C 2010/08/16 ISO 9001:2008 - Quality Management Systems - Requirements (QAC Q)

D5606C 2012/07/16 Release Documents (DND) - Canadian-based Contractor

## **5. AUTHORITIES**

### **5.1 Contracting Authority**

The Contracting Authority for the Contract is:

Sylvie Elder

Public Works and Government Services Canada

Acquisitions Branch

Commercial and Consumer Products Directorate (CCPD)

Clothing & Textiles Division

Place du Portage, Phase III, 6A2

11 Laurier Street

Gatineau, Quebec K1A 0S5

Telephone : 819-956-3830 Facsimile: 819-956-5454

E-mail address: sylvie.elder@tpsgc-pwgsc.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.

### **5.2 Project Authority**

The Project Authority for the Contract is:

#### **Mailing/Shipping Address**

Department of National Defence

101 Colonel By Drive

Ottawa, Ontario

K1A 0K2

Attn: DSSPM (to be advised at contract)

The Project Authority is a representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matter concerning the overall content of the Work under the Contract. Overall content may be discussed with the Project Authority, however the Project 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.

### **5.3 Technical Authority**

The Technical Authority for this Contract is:

#### **Mailing/Shipping Address**

Department of National Defence

101 Colonel By Drive

Ottawa, Ontario

K1A 0K2

Attn: DSSPM (to be advised at contract)

The Technical Authority is a 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 authorise 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.

### **5.4 Procurement Authority**

The Procurement Authority for the Contract is:

#### **Mailing/Shipping Address**

Department of National Defence

101 Colonel By Drive

Ottawa, Ontario

K1A 0K2

Attn: DLP (to be advised at contract)

The Procurement Authority is a 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 authorise 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.

### 5.5 Quality Assurance Authority

The Quality Assurance Authority for the Contract is:

#### Mailing/Shipping Address

Department of National Defence

101 Colonel By Drive

Ottawa, Ontario

K1A 0K2

Attn: DQA (to be advised at contract)

The Quality Assurance Authority is a representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning quality assurance under the Contract. The Contractor may discuss quality assurance matters identified in the Contract with the Quality Assurance Authority however the Quality Assurance Authority has no authority to authorise 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.

### 5.6 Contractor's Representative

The person responsible for :

#### General enquiries

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

Telephone No.: \_\_\_\_\_

Facsimile No.: \_\_\_\_\_

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

#### Delivery follow-up

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

Telephone No.: \_\_\_\_\_

Facsimile No.: \_\_\_\_\_

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

## 6. PAYMENT

### 6.1 Basis of Payment - Firm Unit Prices

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid firm unit prices, as specified in Annex A for a cost of \$ (to be advised at contract award). Customs duties are included and Goods and Services Tax is extra, if applicable.

Canada will not pay the Contractor for any design changes, modifications or interpretations of the Work, unless they have been approved, in writing, by the Contracting Authority before their incorporation into the Work.

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, if the options are exercised, the unit prices, DDP, Transportation costs included, GST extra, are specified under options 1 to 3 in Annex A.

## 6.2 SACC Manual Clauses

H1001C 2008/05/12 Multiple Payments

## 7. INVOICING INSTRUCTIONS

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

2. Invoices must be distributed as follows:

(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 Building  
101 Colonel By Drive  
Ottawa, ON K1A 0K2  
Attn: DLP 5-3-3

Note: The original invoice (PDF format) can also be send by e-mail to \_\_\_\_(to be advised at contract award)\_\_\_ and must be stamped with the word "ORIGINAL" and the other copies must be stamped with the words "COPY DO NOT PAY".

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

(c) One (1) copy must be forwarded to the consignee.

### 7.1 Release Documents - Distribution

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

(a) **Copy 1:** mail to consignee marked: "Attention: Receipts Officer";

(b) **Copies 2 and 3:** with shipment (in a waterproof envelope) to the consignee;

(c) **Copy 4:** to the Contracting Authority;

(d) **Copy 5:** to:

National Defence Headquarters  
Mgen George R. Pearkes Building  
101 Colonel By Drive  
Ottawa, ON K1A 0K2  
Attention: DLP 5-3-3

The original inspection document CF 1280 (PDF format) can also be sent by e-mail to \_\_\_\_(to be advised at contract award)\_\_\_

- (e) **Copy 6:** to the Quality Assurance Representative;
- (f) **Copy 7:** to the Contractor;
- (g) **Copy 8:** all non-Canadian contractors to:

DQA/Contract Administration  
 National Defence Headquarters  
 Mgen George R. Pearkes Building  
 101 Colonel By Drive  
 Ottawa, ON K1A 0K2  
 E-mail: ContractAdmin.DQA@forces.gc.ca

## **8. CERTIFICATIONS**

Compliance with the certifications provided by the Contractor in its bid is a condition of the Contract and subject to verification by Canada during the term of the Contract. If the Contractor does not comply with any certification or it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

### **8.1 SACC Manual Clauses**

A3060C 2008/05/12 Canadian Content Certification

## **9. APPLICABLE LAWS**

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

## **10. PRIORITY OF DOCUMENTS**

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

- a) The Articles of Agreement;
- b) the general conditions, 2010A (2011/05/16), General Conditions - Goods (Medium Complexity);
- c) Annex A, Requirement;
- d) Annex B, Performance specification for hot weather safety boot (HWSB);
- e) Annex G, Size Roll (Main Contract);
- f) Annex C, Production evaluation requirements for hot weather safety boot (HWSB);
- g) Annex I, CFTPO (HWSB);
- h) Sealed Pattern; and
- i) The Contractor's bid dated \_\_\_\_\_.

## **11. DEFENCE CONTRACT**

SACC Manual Clause A9006C (2012/07/16) Defence Contract

**12. SACC MANUAL CLAUSES**

C2801C 2011/05/16 Priority Rating - Canadian-based Contractors

**13. MATERIALS: CONTRACTOR TOTAL SUPPLY**

The Contractor will be responsible for obtaining all materials required in the manufacture of the items specified. The delivery stated for the items allows the necessary time to obtain such materials.

**14. PROCEDURES FOR DESIGN CHANGE/DEVIATIONS**

The Contractor must follow these procedures for any proposed design change/deviation to contract specifications.

The Contractor must complete Part 1 of the Design Change/Deviation form DND 672 and forward one (1) copy to the Technical Authority and one (1) copy to the Contracting Authority.

The Contractor will be authorised to proceed upon receipt of the design change/deviation form signed by the Contracting Authority. A contract amendment will be issued to incorporate the design change/deviation in the Contract.

**15. PLANT CLOSING**

The Contractor's plant closing for Christmas and Summer holidays are as follows.

2012-2013

Christmas Holiday	FROM _____	TO _____
-------------------	------------	----------

2013-2014

Summer Holiday	FROM _____	TO _____
----------------	------------	----------

Christmas Holiday	FROM _____	TO _____
-------------------	------------	----------

2014-2015

Summer Holiday	FROM _____	TO _____
----------------	------------	----------

Christmas Holiday	FROM _____	TO _____
-------------------	------------	----------

2015-2016

Summer Holiday	FROM _____	TO _____
----------------	------------	----------

Christmas Holiday	FROM _____	TO _____
-------------------	------------	----------

If the date of delivery falls within the plant closing period, the Contractor may postpone delivery by the same number of days as the plant closing period. For greater clarity, this article 13 does not extend the delivery of the Contract other than as expressly permitted within this article.

**16. PLANT LOCATION**

Items will be manufactured at: \_\_\_\_\_

**17. SUBCONTRACTOR(S)**

The following subcontractor(s) will be utilised in the performance of the contract.

Solicitation No. - N° de l'invitation

W8476-123712/A

Amd. No. - N° de la modif.

File No. - N° du dossier

pr707W8476-123712

Buyer ID - Id de l'acheteur

pr707

CCC No./N° CCC - FMS No/ N° VME

W8476-123712

---

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

Location: \_\_\_\_\_

Value of subcontract: \$ \_\_\_\_\_

Nature of subcontracting work performed: \_\_\_\_\_

Subcontractors, other than those listed above, may not be utilised without the written permission of Canada.

### **18. OVERSHIPMENT**

Overshipment will not be accepted unless prior approval is obtained from the Contracting Authority.

### **19. QUALITY PLAN**

No later than 30 days after the effective date of the Contract, the Contractor must submit for acceptance by the Department of National Defence (DND) a Quality Plan prepared according to the latest issue (at contract date) of ISO 10005:2005 "Quality management systems - Guidelines, for quality plans". The Quality Plan must describe how the Contractor will conform to the specified quality requirements of the Contract and specify how the required quality activities are to be carried out, including quality assurance of subcontractors. The Contractor must include a traceability matrix from the elements of the specified quality requirements to the corresponding paragraphs in the Quality Plan.

The documents referenced in the Quality Plan must be made available when requested by Public Works and Government Services Canada or DND.

If the Quality Plan was submitted as part of the bidding process, the Contractor must review and, where appropriate, revise the submitted plan to reflect any changes in requirements or planning which may have occurred as a result of pre-contract negotiations.

Upon acceptance of the Quality Plan by DND, the Contractor must implement the Quality Plan. The Contractor must make appropriate amendments to the Quality Plan throughout the term of the contract to reflect current and planned quality activities. Amendments to the Quality Plan must be acceptable to DND.

### **20. POST CONTRACT AWARD MEETING**

The Project Authority or his delegated representatives at National Defence Headquarters and the applicable Quality Assurance Authority must be afforded access to the Contractor's plant and all other premises where pertinent processes are being performed, on the same basis as afforded the representative of National Defence Headquarters, DGQA.

A post contract award meeting may be convened after award of contract at a date decided by the Crown. Participants may include representatives of the Contractor, Technical Authority, Quality Assurance Authority, Project Authority, Contracting Authority and the Procurement Authority. Other meetings may be convened as required.

The Contractor is responsible for the recording and distribution of the minutes for all contract related meeting. The minutes must be sent to the Contracting Authority for acceptance prior to the distribution to all participants or as otherwise directed in the contract within ten (10) calendar days of the subject meeting. The minutes must be used only as a record of proceedings.

---

## **21. PROGRESS REPORTS**

The Contractor must provide a progress report on the last working day of each month covering all phases of the work. One copy must be distributed to each the Quality Assurance Authority, the Procurement Authority and the Contracting Authority.

The Contractor must provide a quarterly progress report covering all phases of the work. One copy must be distributed to each Quality Assurance Authority, the Technical Authority and the Contracting Authority.

The report must include, as a minimum the following:

- a summary of work accomplished during the report period, components/material purchases and production steps;
- a summary of work planned for the ensuing period;
- a statement as to whether the work is proceeding according to plan, full explanation for deviations from the work plan;
- identification of current and potential problems which may affect the progress of the work, and the proposed solutions to those problems; and
- delivery status of boots by size and destination.

The progress reports can be mailed, faxed or sent by e-mail.

## **22. PRODUCTION SAMPLES**

1. The Contractor must provide three (3) production samples of boots in sizes 240/94, 265/104 and 290/114, accompanied by the sealed sample in accordance with Annex B, if applicable, to the Technical Authority for acceptance within 60 calendar days from date of contract award.
2. The Contractor must carry out all required inspection and tests to verify conformance to the technical requirements of the Contract.
3. The Contractor must provide the samples, and a copy of the inspection and test reports and certificates of compliance as per Table III of Annex C, to the Technical Authority, transportation charges prepaid, and without charge to Canada. The samples submitted by the Contractor will remain the property of Canada.

Laboratory analysis of the product offered showing test results for specific tests listed at Annex C of physical properties detailed in the technical requirement must be provided with the pre-production samples. Testing must be performed by an independent accredited laboratory establishment and must be in accordance with the test methods detailed in the technical requirement. Testing carried out by university textile testing laboratories will also be acceptable. Should a non-accredited laboratory be required for specific tests, approval must be sought and received in writing from the Technical Authority in advance. The laboratory report must be dated within the 6 months of the solicitation posting date.

4. The Technical Authority will notify the Contractor, in writing, of the conditional acceptance, acceptance or rejection of the samples. A copy of this notification is to be provided by the Technical Authority to the Contracting Authority. The notice of conditional acceptance or acceptance does not relieve the Contractor from complying with all requirements of the specifications and all other conditions of the Contract.

5. The Contractor must not commence or continue with production of the items and must not make any deliveries until the Contractor has received notification from the Technical Authority that the samples are acceptable. Any production of items before sample acceptance will be at the sole risk of the Contractor.

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6. Test results as specified in Table III must be submitted before the material is put into production when there is any change in the source of supply or a change in colour(s) and the fittings (laces, eyelets, slide fastener, etc.). DND written approval is required prior to using any material from a new supplier.

#### **CERTIFICATE OF COMPLIANCE - DEFINITION**

A Certificate of Compliance (C of C) is a written statement sent by the Contractor guaranteeing the full compliance of the product to the specification, or portion of the specification, referenced. This document must be on official company stationery; it must be current (within the 6 months of the solicitation posting date); it must make reference to the applicable specification and have the original signature of the company's designated representative. Canada reserves the right to verify the statements made in the C of C. Full test results, demonstrating the product's compliance, will be accepted in lieu of a C of C.

##### **22.1 Sealed Pattern - Return to Sender**

The sealed pattern which may have been sent to the Contractor, is to be returned to the sender upon completion of Contract.

The sealed pattern is not to be mutilated or cut, but returned in the same condition as sent to the Contractor.

#### **23. SPECIFICATIONS AND STANDARDS**

##### **23.1 United States Military Specifications and Standards**

The Contractor is responsible for obtaining copies of all United States (US) military specifications and standards which may be applicable to the requirement. These specifications and standards are available commercially, or may be obtained by visiting the US Department of Defense Website, at the following address: <http://dodssp.daps.dla.mil/>.

Solicitation No. - N° de l'invitation

W8476-123712/A

Amd. No. - N° de la modif.

File No. - N° du dossier

pr707W8476-123712

Buyer ID - Id de l'acheteur

pr707

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

W8476-123712

CCC No./N° CCC - FMS No/ N° VME

**ANNEX A**  
**REQUIREMENT (MAIN CONTRACT)**

**1. TECHNICAL REQUIREMENT**

The Contractor is required to provide the Department of National Defence with Hot Weather Safety Boot (HWSB) in true black, Spare Laces and Spare Inserts in accordance with the Specification for Hot Weather Safety Boot dated June 15, 2012 at Annex B and sealed pattern.

**2. ADDRESSES**

<b>Destination Address</b>	<b>Invoicing Address</b>
<b>WB941</b> Department of National Defence 25 CFSD Montreal 6363 Notre Dame St. E. Montreal, Quebec H1N 1V9	<b>W8476</b> National Defence Headquarters Mgen George R. Pearkes Building 101 Colonel By Drive Ottawa, Ont. K1A 0K2 Attn : DLP 5-3-3
<b>W248A</b> Department of National Defence 7 CF Supply Depot 195 Ave & 82nd St., Bldg. 236 Edmonton, Alberta T5J 4J5	<b>W8476</b> National Defence Headquarters Mgen George R. Pearkes Building 101 Colonel By Drive Ottawa, Ont. K1A 0K2 Attn : DLP 5-3-3

**3. DELIVERABLES****MAIN CONTRACT QUANTITY**

<b>Item</b>	<b>Description</b>	<b>Unit of Issue</b>	<b>Destination</b>	<b>Firm Quantity</b>	<b>Firm Unit Price, DDP, Transportation cost included, GST extra</b>
1	Boots	Pair	Edmonton	24,000	\$ _____
			Montreal	36,000	\$ _____
2	Spare Laces	Pair	Edmonton	4,000	\$ _____
			Montreal	6,000	\$ _____
3	Spare Inserts	Pair	Edmonton	4,000	\$ _____
			Montreal	6,000	\$ _____

Refer to size roll at Annex G for boots.

The size roll for the spare inserts is to be determined. For the spare laces and inserts, quantity required for each destination might change at contract award.

If exercised, prices for Option 1 will be valid for 24 months from the date of award of contract, prices for Option 2 will be valid 36 months from the date of award of contract and prices for Option 3 will be valid 48 months from the date of award of contract

### OPTION 1

Item	Description	Estimated Quantity	Unit of Issue	Destination	Firm Unit Price, DDP, Transportation cost included, GST extra
4	Boots	20,000	Pair	Edmonton	\$ _____
				Montreal	\$ _____

### OPTION 2

Item	Description	Firm Quantity	Unit of Issue	Destination	Firm Unit Price, DDP, Transportation cost included, GST extra
5	Boots	20,000	Pair	Edmonton	\$ _____
				Montreal	\$ _____

### OPTION 3

Item	Description	Firm Quantity	Unit of Issue	Destination	Firm Unit Price, DDP, Transportation cost included, GST extra
6	Boots	20,000	Pair	Edmonton	\$ _____
				Montreal	\$ _____

A size roll will be provided if and when the options are exercised.



This document has been examined by the Technical Authority for content and confirmed that it has no references to controlled goods

**PERFORMANCE SPECIFICATION**  
**FOR**  
**HOT WEATHER SAFETY BOOT (HWSB)**  
**NSN 8430-20-006-6689 A/A**

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OPI/BPR: DSSPM 2-3 / DAPES 2-3

  
**Canada**

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**PERFORMANCE SPECIFICATION**  
**FOR THE**  
**HOT WEATHER SAFETY BOOT (HWSB)**  
**NSN 8430-20-006-6689 A/A**

**1.0 SCOPE**

1.1 **Scope:** This specification defines the performance requirements for the manufacture and procurement of a hot weather safety boot worn by Canadian Forces Navy personnel.

1.1.1 The performance criteria in this document have been organized as the following:

- Performance Requirements – Whole Boot;
- Performance Requirements – Upper Components;
- Performance Requirements – Bottoming Components;
- Performance Requirements – Mandatory Components/Design Elements; and
- Performance Requirements – Compatibility With Socks

1.1.2 **Performance Requirements:**

1.1.2.1 In specifying the different performance requirements, two levels of measurement will be used. These are defined as follows:

- **Essential** - An essential requirement is a criterion that must be met if a potential HWSB is to be considered for selection. The word "must" will be considered synonymous with essential; and
- **Desirable** - A desirable criterion describes a performance requirement where performance better than the stated essential level is deemed to have significant operational value. The word "should" will be considered synonymous with desirable.

1.1.3 **Innovation:** Innovation may contribute in finding successfully solutions to conflicting performance requirements found in this document. Any forms of innovation in design, materials, or manufacturing processes submitted, as part of the competitive procurement process, must be reproducible via mass production.

1.1.4 **Deviations to standard footwear conventions:** The performance requirements described in this document are meant to be interpreted by personnel and companies having a knowledge base of good commercial practice for workmanship and experience in design, materials, and processes used in the production of military or ruggedized outdoor footwear. Deviations to standard footwear conventions must be outlined in a detailed justification.

## 1.2 **Intended Use:**

- 1.2.1 The Hot Weather Safety Boot (HWSB) for the Navy must meet the requirements of men and women of the Navy, including Regular Forces and Reserve Forces, to provide enhanced foot protection for operations in hot weather within the ambient temperature range of +25 degrees Celsius to +45 degrees Celsius with humidity ranging from 20% to 100% and high levels of direct solar radiation.
- 1.2.2 During the conduct of hot weather operations, the HWSB will be worn as daily footwear in conjunction with the Hot Weather Sock. These boots will be worn with, but not limited to the Naval Combat Trousers, Naval Boarding Party Coveralls, Naval Raingear Trousers, and the CBRN Protective Ensemble.

## 2.0 **PERFORMANCE REQUIREMENTS – WHOLE BOOT**

- 2.1 **Sole Attachment Method:** Bottom construction must be Goodyear Welt process or Direct Injection process. The bond achieved between the boot upper and the bottoming components must be permanently resistant to any delamination throughout the life of the boot. Additional information regarding bond strength tests is outlined in paragraph 11.2.

### 2.2 **Colour:**

- 2.2.1 **Uppers:** The reference colour of the HWSB is true black in accordance with Black 37038 of FED-STD-595C. The boot may contain shades of black (greys, dark charcoal, etc).

- 2.2.1.1 The colour shades must be approved by the Naval Requirements office. DND reserves the right, before production approval, to require that these materials must be reverted to true black in accordance with Black 37038 of FED-STD-595C without any increase in price.

- 2.2.2 **Bottoming Components:** The bottoming components (for example, the midsole, cushion midsole, and outsole) of the HWSB must be true black in accordance with Black 37038 of FED-STD-595C.

- 2.2.3 **Fittings, and Internal Components:** Fittings (for example, laces, eyelets, slide fasteners, etc) and all internal components (for example, linings, removable cushioning insoles, etc) of the HWSB may be either commercial black or grey.

- 2.3 **Weight:** The weight of the finished boot will be an important factor in the performance of the HWSB, therefore the overall weight for the complete boot, including any removable part(s), must be kept to a minimum. When weighed in accordance with the method outlined, the boot must meet the weight requirement outlined in Table 1.

- 2.4 **Height:** The maximum height of the HWSB must not cause discomfort or impede movement when marching, kneeling or squatting. This height must be graded proportionally to the size. When measured in accordance with the method outlined, the boot must meet the height requirement outlined in Table 1.

- 2.5 **Sizing:** The HWSB must be sized and labelled using the Mondopoint sizing system based on the standard for sizing and fit in accordance with Last DND-601ST. Further information is outlined in paragraph 7.0.
- 2.6 **Compatibility:**
- 2.6.1 **Socks:** The HWSB must be able to be worn with the Hot Weather Sock (in accordance with DSSPM 396-12). For further information on yarns used in the manufacture of the socks, refer to paragraph 6.0
- 2.6.2 **Clothing:** The HWSB must be able to be worn with the following clothing:
- Trousers of the Naval Combat Dress Ensemble;
  - Naval Boarding Party Coveralls;
  - Naval Raingear Trousers; and
  - CBRN Protective Ensemble.
- 2.7 **Canadian Standard Association (CSA) Safety Features:** The HWSB must meet CSA Z195 Grade 1 protection in terms of the protective toecap. In addition, the HWSB must meet CSA Z195 in terms of the puncture resistant sole and electric shock resistance. The HWSB must have appropriate CSA Z195 protective footwear markings. See paragraph 8.2 for additional information regarding placement of the markings.
- 2.8 **Wicking:** The materials used in the HWSB must allow the transfer of body moisture away from the body via capillary action of the material. This performance requirement will be tested in accordance with the vertical wicking test outlined in paragraph 11.4. Three (3) samples must be tested. Results must be submitted for both the material next-to-foot and the footbed. Test results must be submitted for information purposes only as they will have no weight in terms of technical compliance.
- 2.9 **Drying Rate:** The materials and configuration of the HWSB must allow the sailor to dry out the complete boot assembly when not being worn. As Navy personnel will be issued two (2) pairs of boots, the HWSB must be a minimum of 95% dry in eighteen (18) hours. When tested in accordance with the applicable test method, the boot must meet the drying rate requirements outlined in Table 1.
- 2.10 **Flame Resistance:** The HWSB will be worn at sea, and therefore must protect the wearer when exposed to flame for a short time (4 seconds at 2 calories per square centimetre). When tested in accordance with the applicable test method, the boot and closure systems must meet the flame resistance requirement outlined Table 1. See paragraph 5.4 for additional information regarding the closure systems.
- 2.11 **Microbial Resistance:** The materials used in the upper and the footbed (cushion insole and lasting insole) must have anti-bacterial and anti-fungal protective properties that last through out the life span of the boot. The product used to impart the anti-microbial finish must have either a Pest Control Product Registration Number that has been issued by the Pest Management Regulatory Agency of Health Canada or be an EPA-registered antimicrobial.

- 2.12 **Exposure to Chemicals.** Testing for exposure to chemicals must be done on all materials used on the upper of the boot. These parts would include, but not necessary be limited to, upper materials such as the vamp, upper and lower quarters, eyelet facing, eyelet stay, backstrap, and the collar.
- 2.12.1 **Everyday Exposure:** The materials must not dissolve, disintegrate, absorb, or result in surface damage after exposure to all types of standard commercial and in-service POLs including aviation fuel, hydraulic fluids, engine and turbine oils, antifreeze, and in-service weapon cleaning products. Further definition of these liquids is defined in paragraph 11.1.1. When tested in accordance with the applicable test methods, the boot must meet the requirements after exposure to these chemicals outlined in Table 1.
- 2.12.2 **Limited Exposure:** The materials should not dissolve, disintegrate, absorb, or result in surface damage after limited exposure (i.e. splashing) from salt water, battery acid and insect repellents (DEET). Further definition of these liquids is defined in paragraph 11.1.1. When tested in accordance with the applicable test methods, the boot should meet the requirements of Table 1.
- 2.12.3 **Contamination by POL.** If the materials are contaminated by POL, simple washing must remove a sufficient amount of the POL to render any residue non-hazardous to combustion.
- 2.13 **Whole Boot Moisture Vapour Transmission Rate (MVTR):** When tested in accordance with the applicable test method, the whole boot must meet the whole boot moisture vapour transmission rate requirements outlined in Table 1.

**TABLE 1 – PERFORMANCE REQUIREMENT – WHOLE BOOT**

Performance Requirement	Test Method	Requirement		Minimum	Maximum
		Essential	Desirable		
<b>Sole Attachment Method</b> (paragraph 2.1)	Visual	X		Goodyear Welt process <u>or</u> Direct Injection process	
<b>Colour</b> (paragraph 2.2)	FED-STD-595: Black 37038	X		<p>The reference colour of the HWSB is true black in accordance with Black 37038 of FED-STD-595C.</p> <p>The boot may contain shades of black (greys, dark charcoal, etc).</p> <p>The bottoming components (for example, the midsole, cushion midsole, and outsole) of the HWSB must be true black in accordance with Black 37038 of FED-STD-595C.</p> <p>Fittings and all internal components of the HWSB may be either commercial black or grey.</p>	

Performance Requirement	Test Method	Requirement		Minimum	Maximum
		Essential	Desirable		
<b>Maximum average weight per boot</b> (paragraph 2.3): Weighing will be done on Mondopoint size 265/104 boots including all of the components (insoles, laces, etc).	Sample must be pre-conditioned at 20° Celsius (+/-2° C) with 65% (+/-2%) relative humidity for a minimum of 24 hours.	X			Left and right boots of three (3) pairs must be weighted and the result will be averaged. Maximum average weight: 750.0 grams per boot.  Tolerance on individual boot (left or right) weight of pair must be within +/- 10.0 grams.
<b>Height</b> (paragraph 2.4)	As measured on the outside of the boot from the bottom of the heel (on a level surface) to the top of the collar on a pair of Mondopoint 265/104 boots.	X		8 inches (20.3 cm)  Tolerance: plus or minus 1/2-inch (12.7 mm)	
<b>Sizing</b> (paragraph 2.5)	Mondopoint sizing	X			The HWSB must be manufactured on lasts that are duplicates of Last DND-601ST, which constitutes the standard for sizing and fit.
<b>Compatibility</b> (paragraphs 2.6 and 6.0)	DSSPM 396-12	X			HWSB must be able to be worn with the Hot Weather Sock.
<b>Safety Features</b> (paragraph 2.7): Protective Toecap Puncture Resistant Sole Electric Shock Resistance	CSA Z195	X			CSA-Z195 Grade 1 Protective Toe Cap  Puncture Resistant Sole and Electric Shock Resistance as per CSA-Z195
<b>Wicking Rate</b> (paragraph 2.8):	Vertical Wicking Rate, paragraph 11.4	X			Test results must be submitted for information purposes only as they will have no weight in terms of technical compliance.
<b>Drying Rate</b> (paragraph 2.9)  * Source of supply for the drying rate test is Group CTT (3000, rue Boullé, St-Hyacinthe, Quebec Tel: (877) 288-8378).	CTT Drying Rate Test*  Sample pre-conditioned at 21° Celsius (+/-2° C) with 65% (+/-2%) relative humidity.  Climatic chamber test conditions 21° Celsius (+/-2° C) with 55% (+/-2%) relative humidity.	X			Inside of HWSB must be wetted with 20 grams of sprayed, distilled water. Test results must show that the boot must be a minimum of 95% dry in a period of 18 hours.

Performance Requirement	Test Method	Requirement		Minimum	Maximum
		Essential	Desirable		
<b>Flame Resistance</b> (paragraph 2.10) - Whole Boot and Closure Systems (Laces and Slide Fastener Side Closure)	ASTM F1930  There must be video and written report submitted to demonstrate that this performance has been achieved by the submission	X		Whole Boot: Exposure to a four (4) second burn and remain intact  Materials used in the whole boot and closure systems must self extinguish after exposure to a four (4) second burn and remain functional  Functional = still usable to walk away from the threat.	
<b>Microbial Resistance</b> (paragraph 2.11)		X		The product used to impart the anti-microbial finish must have a Pest Control Product Registration Number that has been issued by the Pest Management Regulatory Agency of Health Canada.	
<b>Exposure to Chemicals</b> (paragraph 2.12)  Exposure to Jet Fuel, Lubricating Oil, Degreasers & Cleaning Agents, Anti-Freeze, and Broad Spectrum Sunscreen.	<b>Changes in appearance:</b> for test method of upper materials, see paragraph 11.1.3.2 (everyday exposure).	X		<b>Changes in appearance:</b> When tested in accordance with the test method outlined in paragraph 11.1, all specimens must be visually examined for changes in appearance and pass.	
<b>Exposure to Chemicals</b> (paragraph 2.12)  Salt Water; Battery Acid, and DEET Liquid and Cream.	<b>Changes in appearance:</b> for test method of upper materials, see paragraph 11.1.3.3 (for limited exposure).		X	<b>Changes in appearance:</b> When tested in accordance with the test method outlined in paragraph 11.1, all specimens must be visually examined for changes in appearance.	
<b>Whole Boot Moisture Vapour Transmission Rate (MVTR)</b>	Annex B, Paragraph 11.3	X		Minimum of 6.0 grams / hour	

### 3.0 PERFORMANCE REQUIREMENTS - UPPER COMPONENTS

**3.1 General:** The material(s) used in the upper must sufficiently stand-up to prevent collapse of the boot upper. The surface finish must be one that is easily maintained by the user with the use of water and a cloth or a brush. The materials and design of the uppers must prevent ingress of foreign matter (such as, but not limited to sand, small bugs, and dirt) that may injure or irritate the foot via normal wear, puncture and exposure.

### 4.0 PERFORMANCE REQUIREMENTS - BOTTOMING COMPONENTS

**4.1.1 General – Bottoming Components:** The materials and design of the bottoming construction must provide adequate comfort and structure to minimize fatigue of

personnel standing on hot decks for prolonged periods and climbing / descending ships' ladders.

**4.1.1.1 Outsoles:** Outsoles must be made using compounds and a tread pattern which provides traction and stability to the user on all surfaces under outdoor ambient temperature conditions ranging from 25°C to 45°C. As solar radiation will have a direct temperature elevating effect on the surface of the ship's deck, outsoles must not melt or degrade in temperatures ranging from 45°C to 55°C. The tread pattern must be a design which facilitates movement on steep angles while ascending or descending a variety of surfaces and surface conditions, which enhances both traction and braking control on extremely wet, metal surfaces, which minimizes the clinging and build-up of mud and water, and aids in the expulsion of small objects (stones, nails, screws, etc) during the walking motion.

**4.1.1.2 Removable Inserts:** The inserts must have excellent compression set, using a heel strike pad or equivalent technology. They must be washable, fast drying and breathable with a durable anti-bacterial/anti-fungal, anti-odour treatment that is non-hazardous to the user. The inserts must be permanently formed to cup around the foot at the heel and provide support through the arch area. Two pairs of removable inserts must be supplied with each pair of boots; one pair inside the boot and another pair as extras.

**4.1.1.2.1** Note that removable inserts utilized in other in-service footwear vary in thickness from the forepart (at 4.0 mm thick) to the backpart (at 6.0 mm thick). The thickness of the inserts used in the HWSB must be appropriate to provide the level of performance required and is at the manufacturers' discretion.

**4.1.2 Performance – Outsole and Midsole:** Test slabs (in accordance with ASTM D3183 procedures) must be tested as applicable. See Table 2 for additional performance requirements of the materials used in the outsole and midsole (if utilized).

**TABLE 2 – PERFORMANCE REQUIREMENTS – BOTTOMING COMPONENTS**

Performance Requirement	Test Method	Requirement		Minimum	Maximum
		Essential	Desirable		
<b>Lug Depth</b> (for all construction methods)	ISO 20344, para 8.1.2	X		d <sub>2</sub> = 4.0 mm	
<b>Non-Marking Outsole</b>	SATRA TM223	X		Pass	
<b>Slip Resistance of Outsole:</b>	SATRA TM144 - wet (with Glycerol) stainless steel surface.	X		Forward flat slip: 0.30 μ	
				Forward heel slip: 0.20 μ	
<b>Volume Swell (Fuel B) of Midsole</b>	ASTM D471	X			75 percent
<b>Bond Strength:</b> for Direct Injection and Goodyear Welt construction methods	ASTM D816 and the procedure outlined in paragraph 11.2	X		Minimum: 100 pounds	

## 5.0 PERFORMANCE REQUIREMENTS - MANDATORY COMPONENTS / DESIGN ELEMENTS

- 5.1 **Toecap area:** There must be a comfortable transition from the edge of the protective toe cap to the rest of the boot so that users cannot feel the edge.
- 5.2 **Tongue:** The tongue must be designed to lay flat so that no pressure points result on the top of the foot when the boot is in use.
- 5.3 **Design of the Upper:** The design of the upper must prevent fluid “splash over” protection against accidental spillage of liquids such as, but not limited to, hot oils as used by cooks and common POL products. The design must be lace-to-toe in conjunction with the slide fastener side closure.
- 5.4 **Closure Systems:** The closure systems must be designed not to have open hooks or protrusions that could snag on any part of the ships structure, cabling or rigging. The total number and placement of these elements must be as required to ensure the stability and functional ability of the boot. Should emergency access to the foot be required, the main closure system must allow for quick release. The materials used in the closure systems must keep their integrity allowing the user to exit a hazardous area without worry of their footwear slipping off. When tested in accordance with ASTM F1930, the materials in the whole boot including the closure systems must self extinguish after exposure to a four (4) second burn and remain functional. Functional is defined as the boot still enabling the user to walk away from the threat. If exposed to this threat, a CF member would be issued new footwear and the old boot discarded. The closure systems do not have to be in working condition after exposure. Colour of the materials used in the closure system must be true black.
- 5.4.1 **Main Closure System - Laces:** Laces must be long enough to allow donning of the boots with laces still threaded through the top of the closure system. When tested in accordance with ASTM D5034, the breaking strength of the laces must be a minimum of 220 pounds. Two pairs of laces must be supplied with each boot; one pair inside the boot and another pair as extras.
- 5.4.2 **Slide Fastener Side Entry:** Slide fastener side entry system located on the medial side of the boots to augment the main closure system is a mandatory design requirement. When used daily in typical Navy activities, the components of the slide fastener must keep their integrity for the life of the boot without concern of the footwear slipping off the user and without concern that any of the components of the slide fastener (slider, pull, top stop, elements, etc) will fall off. The design of the side entry must ensure that materials do not rub against users’ feet causing discomfort.
- 5.5 **Closure at collar:** The top of the boot must be designed to form a comfortable, reliable and safe seal to minimize ingress of foreign matter such as mud, sand and salt water. A padded collar would be an acceptable design solution. If foam is used in the closure at the collar, it must absorb a minimal amount (if any) of liquids and have the ability to dry quickly.

- 5.6 **Counters:** The counter must correspond to the shape and design of the heel portion of last DND 601ST (left and right lasts) and be supplied in a sufficient number of sizes to cover the boot size range. The user must be protected from abrasion at the heel. The counters must have a fungicide treatment that prevents mould and mildew. Adhesives used must remain soft and flexible.

## 6.0 PERFORMANCE REQUIREMENTS - COMPATIBILITY WITH SOCKS

- 6.1 **Socks:** The HWSB will be worn with the Hot Weather Sock (in accordance with sealed sample DSSPM 396-12).
- 6.1.1 **Hot Weather Sock:** The HWSB will be worn with the Hot Weather Sock (in accordance with sealed sample DSSPM 396-12). The yarn used in the hot weather sock is 60% COOLMAX® with an antimicrobial, 20% Dri-Release, 18% Nylon, and 2% Spandex.

## 7.0 SIZING

- 7.1 The HWSB must be manufactured on lasts that are duplicates of Last DND-601ST, which constitutes the standard for sizing and fit. The sizing standard of Last DND-601ST is for the exclusive use of the Department of National Defence and those manufacturers contracted by DND to produce military footwear. The source for this standard is:

JV Components Canada (A Division of United Last)  
2955 rue Breault,  
Mirabel, Quebec  
J7J 1P3

- 7.2 The complete range of sizes with the specific NATO Stock Numbers (NSNs) is listed in Table 3. The increment between sizes in length is 5.0 mm and in width is 4.0 mm.
- 7.3 The Contractor must be responsible for the acquisition of the lasts required for production in the contracted sizes, in the quantities required to meet the delivery requirements.

## 8.0 LABELLING AND FINISHING

- 8.1 On the inside of each HWSB upper, the information prescribed below must be provided in English and French, legibly, indelibly, and in a method which does not jeopardize integrity, cause discoloration, or create any pressure point for the user. Boots shall have the following information printed on a label approximately 4.0 cm by 6.0 cm (tolerance: +/- 1.0 cm). The size will be twice the size of the other characters:

- a. Abbreviated nomenclature:

Boots, Safety, Hot Weather, Navy / Bottes de sécurité pour temps chaud  
CSA Grade 1 Toe and Puncture Protection /  
Embout protecteur de catégorie 1 et semelle résistant aux perforations  
conformes à la norme CSA

- b. NATO Stock Number and Size (in mondopoint);
- c. Contractors name, initials or recognized trademark;
- d. Contract number and month and Year of manufacture; and
- e. One line designated as "ID" appropriate for the users to write their name.

Example:

NSN/NNO : 8430-20-XXX-XXXX <b>Size/Pointure 250/102</b>  Boots, Safety, Hot Weather, Navy /Bottes de sécurité pour temps chaud CSA Grade 1 Toe and Puncture Protection/ Embout protecteur de catégorie 1 et semelle résistant aux perforations conformes à la norme CSA  Nom du fabricant W1234-567890 Janvier 2012  ID : _____
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- 8.2 **CSA Labels:** CSA labels with the appropriate designations must be positioned and securely sewn to the inside of the boot, at the top of the tongue, above the size label.
- 8.3 **Marking of footbed:** The commercial size and mondopoint size (e.g. 280/102) must be indelibly printed or embossed on the bottom of the footbed. Printed labels are acceptable as long as it does not create a pressure point for the user.
- 8.4 **Care Instructions:** The Contractor must provide bilingual care instructions for the boots with each pair delivered. The care instructions must be printed on paper measuring 0.009 inches (0.223 mm) thick (tolerance: +/- 5%). The instruction sheet shall be approximately 4 inches (10.2 cm) wide by 8 inches (20.3 cm) long. The DND Technical Authority must approve the format and content of the care instructions.
- 8.5 **Laces and Removable Inserts:** Each pair of boots must be supplied with two pairs of laces. The boots must be laced with one of the pair of laces threaded through the lower portion of the front closure at the very least and loosely tied, joining the boot pairs together. The second pair of laces must be inserted in the plastic bag along with the spare pair of removable inserts and the care instructions (see paragraph 8.4).
- 8.6 **Company Logo:** The manufacturer's logo may be identified on the HWSB providing it is made with subdued colours, is a maximum of 1-3/16 inches (3.0 cm) in height, is located on the tongue, and approved by the DND Technical Authority. A "Made In Canada" hangtag may be added to the boots.

## 9.0 QUALITY ASSURANCE AND INSPECTIONS

- 9.1 A DND Director Quality Assurance (DQA) representative will be assigned to the HWSB contract to conduct inspections as required. It is mandatory that the Contractor have in place an acceptable QA program.
- 9.2 **Warranty:** There must be a two (2) year warranty on all components from final delivery of firm, fixed quantities.
- 9.3 **Shelf Life:** Warehouse conditions could vary from 0°C to +35°C with a relative humidity level varying from 15% to 90%.
- The HWSB system (boot and removable components) will not require any maintenance during a two-year storage period.
  - New pairs of HWSB, packaged in their original conditions, should withstand normal storage for a period of two (2) years from date of manufacture without any degradation in performance.

## 10.0 PACKAGING:

- 10.1 The HWSB must be individually packaged in accordance with CFTPO-HWSB. The abbreviated nomenclature for the label on the boxes will be as follows:

Hot Weather Safety Boot / Bottes de sécurité pour temps chaud

- 10.2 Unless otherwise specified, the preparation, packaging, and delivery of the HWSB must be in accordance with the terms of the contract.

## 11.0 ADDITIONAL TEST INFORMATION

### 11.1 Test for Chemical Resistance.

#### 11.1.1 Definitions of chemicals.

- Jet fuel in accordance with CAN/CGSB-3.22;
- Degreasers and cleaning agent (methyl ethyl ketone 99.8% assay);
- Lubricating Oil (SAE Grade 50 (military grade 1100, commercial grade 100) in accordance with SAE J1966\*6);
- Battery acid (35% sulfuric acid / 65% water);
- Anti-Freeze (ethylene glycol (reagent grade) 50% volume and distilled water, 50% volume);
- DEET Insect repellent liquid (75%) in accordance with CAN/CGSB-15.19;
- DEET Insect repellent cream (32%);
- Salt Water in accordance with CAN/CGSB-4.2 Method 21 (paragraph 4.5);
- Broad spectrum sunscreen (SPF 15 or higher) with minimum active ingredients of avobenzone (3%), homosalate (10%), and octyl methoxycinnamate (7.5%).

### 11.1.2 Testing for changes in appearance.

**11.1.2.1 Definitions of changes in appearance.** Examples of changes in appearance would be, but is not limited to, pitting, removal of finish, decomposition, clouding, crazing, cracking, delamination of materials (defined as separation, bubbling, cracking, or holes between layers of material), and abnormal discoloration.

**11.1.3 Test procedure - for upper material(s) only:** Materials that are exposed on the outside of the boot and directly next to skin must be tested.

**11.1.3.1** Two (2) specimens of each material must be tested separately to each chemical. Size of the specimens will be 4-inches (10.2 cm) square. The chemicals must be placed on the side of the material that is intended to be the outer face side.

**11.1.3.2 Everyday Exposure:** Each test chemical identified in paragraph 2.12.1 (POLs, anti-freeze and in-service weapon cleaning products) must be placed on the top of the test specimen and spread as evenly as possible over the whole surface. As much as possible of the test specimen should be covered with chemical but none of the applied chemical should seep outside after the weight is applied.

**11.1.3.3 Limited Exposure:** For all chemicals identified in paragraph 2.12.2 (battery acid, salt water, and insect repellents (DEET)), two (2) drops (1/20 mL (50 µL)) of each of test chemical must be placed on the top of the test specimen.

**11.1.3.4** For both levels of exposure, the whole test area must then be covered with a glass plate and weighted to a total pressure of 6.895 kPa (1 psi). This weighted cover must be left in place for one (1) hour.

**11.1.3.5 Results.** The material sample must then be visually examined for changes in appearance in accordance with paragraph 11.1.2.1. Those chemicals listed in paragraph 11.1.3.2 must pass (mandatory), while those chemicals listed in paragraph 11.1.3.3 shall pass (desirable).

### 11.2 Bond Strength Test.

**11.2.1 Bond strength test.** The following test must be used to measure the bond strength of the entire sole to boot upper.

**Note:** If test results find values to be less than specified due to material failure in regard to the bond between the layers, the test will be classified as a failure.

**11.2.1.1 Specimen.** The specimen must be one boot (size 265/104) on which the sole has aged at least 2 days after bonding. The two layers of the surface being tested must be separated for a distance of approximately 2-1/2 inches (6.3 cm) from the toe end of the specimen.

**11.2.1.2 Apparatus.** A power-driven portable adhesion machine, or an approved portable testing device of equal performance, must be used. The rate of travel of the power-actuated grip must be 2 inches (5.1 cm) per minute. The machine must be operated with a device for indicating maximum load.

**11.2.1.3 Procedure.** The separate toe ends of the specimen must be clamped in the jaws of the machine. The specimen must extend outward at right angles to the direction of the application load. The machine must be started, and the surface being tested shall be pulled apart to a distance not more than 4-1/2 inches (11.4 cm) from the toe. Upon attaining that degree of separation, the maximum load indicated on the machine must be read and recorded. The test must be deemed as passing if the required load is achieved at any time during the pull test.

### **11.3 Whole Boot Moisture Vapour Transmission Rate Test.**

**11.3.1 Moisture vapour transmission.** Each boot (left and right) of two (2) pairs of finished boots must be tested in accordance with paragraph 10.3.2. One source of this test is:

Precision Testing Laboratories  
313 Hill Avenue,  
Nashville, Tennessee, USA 37210

Telephone: (615) 254-3401  
Fax: (615) 254-3488  
Email: vpsales@precisiontesting.com).

**11.3.2 Moisture vapour transmission rate (MVTR) test.** The moisture vapour transmission rate through the boot will be indicated by means of determining the difference in the concentration of moisture vapour between the interior and the exterior environment.

#### **11.3.2.3 Conditioning and test apparatus:**

- a. The external test environment control system must be capable of maintaining 23 degrees Celsius (+1°C) and 50 % (+/- 2%) relative humidity throughout the test duration;
- b. The weight scale must be capable of determining weight of boots filled with water to accuracy of +/- 0.01 gram;
- c. The water holding bag must be flexible so that it can be inserted into the boot and conform to the interior contours; it must be thin, so that the folds that form do not create air gaps. It must have much higher MVTR than the boots to be tested and it must be waterproof so that only moisture vapour contacts the interior of the boots rather than liquid water;
- d. The internal heater for the boot must be capable of controlling the temperature of the liquid water uniformly in the boot to 35 degrees Celsius (+/- 1°C); and
- e. The boot plug must be impervious to both liquid water and water vapour.

#### **11.3.2.2. Procedure:**

- a. Place boot in the test environment;

- b. Insert holding bag into boot opening and fill with water to a height of 12.5 cm (5.0 in) measured from inside sole;
- c. Insert the water heater and seal opening with boot plug;
- d. Heat water in boot to 35 degrees Celsius;
- e. Weigh boot sample and record as  $W_i$ .
- f. Hold temperature in boot after weighing for a minimum of six (6) hours.
- g. Reweigh boot sample and record weight as  $W_f$  and test duration as  $T_d$ .
- h. Compute whole boot MVTR in grams/hour from equation below:

$$MVTR = \frac{W_i - W_f}{T_d}$$

11.3.2.3. **Result:** The mean whole boot MVTR from the two boots of each test pair will be a minimum of 6.0 grams/hour.

#### 11.4 Test for Vertical Wicking.

**11.4.1 Conditioning:** Condition the test specimens to textile standard atmosphere of 65% relative humidity (tolerance plus or minus 2%) and 20 degrees Celsius (+/- 2 degrees Celsius) in accordance with CAN/CGSB 4.2, Method 2 (Conditioning Textile Materials for Testing).

**11.4.2 Equipment:** The equipment required to carry out this test is:

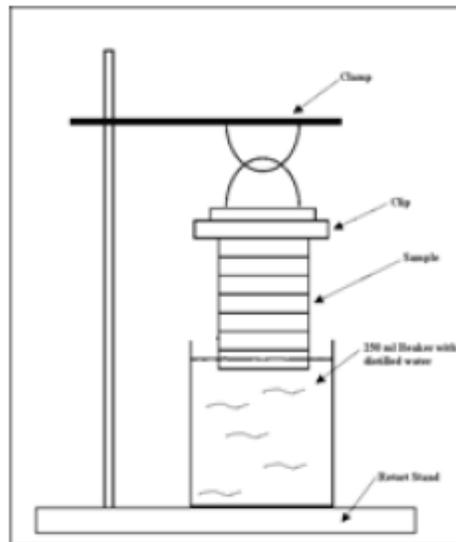
- (a) Retort stand with clip;
- (b) Distilled water;
- (c) Multiple step stop watch; and
- (d) 250 ml beaker

**11.4.3 Preparation of Test Specimens:** Three specimens, 3 x 15 centimetres long, shall be marked with a graduated scale of 1 centimetre intervals using a felt pen with water-soluble ink for fabrics where the change of colour is negligible as the water is moving along the specimen or by lines of stitching using a contrasting thread on fabrics where there is a marked change in colour when the fabric is wet. The fabric shall be tested in both the lengthwise and crosswise directions. The test should be run at in a conditioning room set at 65% humidity and 21 degrees Celsius.

**11.4.4 Method:** A test specimen shall be suspended vertically over a bath of distilled water that is at room temperature as per Figure 1. Timing shall commence immediately upon the water reaching the first mark on the strip of fabric after the end of the specimen is suspended in the water.

- 11.4.5 Record the results:** Record the time it takes for the water to reach each marked interval using a multiple step stop watch. Each test shall run for a maximum of 15 minutes.
- 11.4.6 Report:** Report the distance the water travels as a function of the time for both the lengthwise and crosswise direction.
- 11.4.7 Note:** The illustration of specimen at Figure 1 is not to scale. Test is similar to the INDA WSP 10.1.

**Figure 1 – Vertical Wicking Test**



**TABLE 3: SIZE RANGE OF BOOTS, HOT WEATHER, SAFETY, NAVY**

NSN	NOMENCLATURE	SIZE
8430-20-006-6689	BOOT, SAFETY. HOT WEATHER; NAVY; GRADE 1 PROTECTIVE TOECAP, PUNCTURE RESISTANT SOLE AND ELECTRIC SHOCK RESISTANCE MEETING CSA-Z195 STANDARDS; LUG OUTSOLE; PADDED COLLAR; LACE CLOSURE; COLOUR: BLACK; SIZE A/A	A/A
8430-20-006-6762	BOOTS, SAFETY. HOT WEATHER, NAVY	215/88
8430-20-007-0843	BOOTS, SAFETY. HOT WEATHER, NAVY	215/92
8430-20-006-6690	BOOTS, SAFETY. HOT WEATHER, NAVY	220/90
8430-20-006-6691	BOOTS, SAFETY. HOT WEATHER, NAVY	225/84
8430-20-006-6692	BOOTS, SAFETY. HOT WEATHER, NAVY	225/88
8430-20-006-6693	BOOTS, SAFETY. HOT WEATHER, NAVY	225/92
8430-20-006-6694	BOOTS, SAFETY. HOT WEATHER, NAVY	225/96
8430-20-006-6695	BOOTS, SAFETY. HOT WEATHER, NAVY	230/86
8430-20-006-6696	BOOTS, SAFETY. HOT WEATHER, NAVY	230/90
8430-20-006-6697	BOOTS, SAFETY. HOT WEATHER, NAVY	230/94
8430-20-006-6698	BOOTS, SAFETY. HOT WEATHER, NAVY	230/98
8430-20-006-6699	BOOTS, SAFETY. HOT WEATHER, NAVY	235/88
8430-20-006-6700	BOOTS, SAFETY. HOT WEATHER, NAVY	235/92
8430-20-006-6701	BOOTS, SAFETY. HOT WEATHER, NAVY	235/96
8430-20-006-6702	BOOTS, SAFETY. HOT WEATHER, NAVY	235/100
8430-20-006-6703	BOOTS, SAFETY. HOT WEATHER, NAVY	240/90
8430-20-006-6704	BOOTS, SAFETY. HOT WEATHER, NAVY	240/94
8430-20-006-6705	BOOTS, SAFETY. HOT WEATHER, NAVY	240/98
8430-20-006-6706	BOOTS, SAFETY. HOT WEATHER, NAVY	240/102
8430-20-006-6707	BOOTS, SAFETY. HOT WEATHER, NAVY	245/88
8430-20-006-6708	BOOTS, SAFETY. HOT WEATHER, NAVY	245/92
8430-20-006-6709	BOOTS, SAFETY. HOT WEATHER, NAVY	245/96
8430-20-006-6710	BOOTS, SAFETY. HOT WEATHER, NAVY	245/100
8430-20-006-6711	BOOTS, SAFETY. HOT WEATHER, NAVY	245/104
8430-20-006-6712	BOOTS, SAFETY. HOT WEATHER, NAVY	250/90
8430-20-006-6713	BOOTS, SAFETY. HOT WEATHER, NAVY	250/94
8430-20-006-6714	BOOTS, SAFETY. HOT WEATHER, NAVY	250/98
8430-20-006-6715	BOOTS, SAFETY. HOT WEATHER, NAVY	250/102
8430-20-006-6716	BOOTS, SAFETY. HOT WEATHER, NAVY	250/106
8430-20-006-6717	BOOTS, SAFETY. HOT WEATHER, NAVY	255/92
8430-20-006-6718	BOOTS, SAFETY. HOT WEATHER, NAVY	255/96
8430-20-006-6719	BOOTS, SAFETY. HOT WEATHER, NAVY	255/100
8430-20-006-6720	BOOTS, SAFETY. HOT WEATHER, NAVY	255/104
8430-20-006-6721	BOOTS, SAFETY. HOT WEATHER, NAVY	255/108
8430-20-006-6722	BOOTS, SAFETY. HOT WEATHER, NAVY	260/94
8430-20-006-6723	BOOTS, SAFETY. HOT WEATHER, NAVY	260/98
8430-20-006-6724	BOOTS, SAFETY. HOT WEATHER, NAVY	260/102
8430-20-006-6725	BOOTS, SAFETY. HOT WEATHER, NAVY	260/106
8430-20-006-6726	BOOTS, SAFETY. HOT WEATHER, NAVY	260/110
8430-20-006-6727	BOOTS, SAFETY. HOT WEATHER, NAVY	265/96
8430-20-006-6728	BOOTS, SAFETY. HOT WEATHER, NAVY	265/100

NSN	NOMENCLATURE	SIZE
8430-20-006-6729	BOOTS, SAFETY. HOT WEATHER, NAVY	265/104
8430-20-006-6730	BOOTS, SAFETY. HOT WEATHER, NAVY	265/108
8430-20-006-6731	BOOTS, SAFETY. HOT WEATHER, NAVY	265/112
8430-20-006-6732	BOOTS, SAFETY. HOT WEATHER, NAVY	270/98
8430-20-006-6733	BOOTS, SAFETY. HOT WEATHER, NAVY	270/102
8430-20-006-6734	BOOTS, SAFETY. HOT WEATHER, NAVY	270/106
8430-20-006-6735	BOOTS, SAFETY. HOT WEATHER, NAVY	270/110
8430-20-006-6736	BOOTS, SAFETY. HOT WEATHER, NAVY	270/114
8430-20-006-6763	BOOTS, SAFETY. HOT WEATHER, NAVY	275/100
8430-20-006-6764	BOOTS, SAFETY. HOT WEATHER, NAVY	275/104
8430-20-006-6737	BOOTS, SAFETY. HOT WEATHER, NAVY	275/108
8430-20-006-6738	BOOTS, SAFETY. HOT WEATHER, NAVY	275/112
8430-20-006-6739	BOOTS, SAFETY. HOT WEATHER, NAVY	275/116
8430-20-006-6740	BOOTS, SAFETY. HOT WEATHER, NAVY	280/102
8430-20-006-6741	BOOTS, SAFETY. HOT WEATHER, NAVY	280/106
8430-20-006-6742	BOOTS, SAFETY. HOT WEATHER, NAVY	280/110
8430-20-006-6743	BOOTS, SAFETY. HOT WEATHER, NAVY	280/114
8430-20-006-6744	BOOTS, SAFETY. HOT WEATHER, NAVY	280/118
8430-20-006-6745	BOOTS, SAFETY. HOT WEATHER, NAVY	285/104
8430-20-006-6746	BOOTS, SAFETY. HOT WEATHER, NAVY	285/108
8430-20-006-6747	BOOTS, SAFETY. HOT WEATHER, NAVY	285/112
8430-20-006-6748	BOOTS, SAFETY. HOT WEATHER, NAVY	285/116
8430-20-006-6749	BOOTS, SAFETY. HOT WEATHER, NAVY	290/106
8430-20-006-6750	BOOTS, SAFETY. HOT WEATHER, NAVY	290/110
8430-20-006-6751	BOOTS, SAFETY. HOT WEATHER, NAVY	290/114
8430-20-006-6752	BOOTS, SAFETY. HOT WEATHER, NAVY	290/118
8430-20-006-6753	BOOTS, SAFETY. HOT WEATHER, NAVY	295/108
8430-20-006-6754	BOOTS, SAFETY. HOT WEATHER, NAVY	295/112
8430-20-006-6755	BOOTS, SAFETY. HOT WEATHER, NAVY	295/116
8430-20-006-6756	BOOTS, SAFETY. HOT WEATHER, NAVY	300/110
8430-20-006-6757	BOOTS, SAFETY. HOT WEATHER, NAVY	300/114
8430-20-006-6758	BOOTS, SAFETY. HOT WEATHER, NAVY	305/116
8430-20-006-6759	BOOTS, SAFETY. HOT WEATHER, NAVY	310/122
8430-20-006-6760	BOOTS, SAFETY. HOT WEATHER, NAVY	Special Size



## NOTICE

This document has been examined by the Technical Authority for content and confirmed that it has no references to controlled goods

### Production Evaluation of the Hot Weather Safety Boot (HWSB)

Dated 15 June, 2012

**Production Evaluation of the  
Hot Weather Safety Boot (HWSB)**

- 1.0 General – Production Evaluation**
- 1.1 Production Evaluation.** This annex describes how The Department of National Defence (DND) will perform the production evaluation of the Hot Weather Safety Boot (HWSB) in terms of confirming the Contractors' capability of meeting the technical and performance requirements outlined in Annex B. The conformance to specified materials will be proven by the submission from the Contractor with the appropriate test results from accredited independent laboratories or, when stated, Certificate(s) of Compliance (C of C).
- 1.2 Testing, Test Methods, and Certificate of Compliance.**
- 1.2.1** Unless otherwise specified, all testing and test methods must be in accordance with the specified requirements outlined. Test specimens must be sampled using best practices (for example, textiles taken from the same sample of cloth, leather conditioned and selected at random from each lot). An accredited independent laboratory familiar with polymer, textile, leather, and/or footwear-related testing must conduct all testing unless otherwise stated. Testing carried out by university textile testing laboratories will also be acceptable. Should a non-accredited laboratory be required for specific tests, approval must be sought and received in writing from the Contracting Authority in advance.
- 1.2.2** The test interval is subject to change. It may be increased or decreased at the discretion of the Department of National Defence. DND may also request additional tests and samples at any time.
- 1.2.3 Table III:** Test results as specified in Table III must be submitted before the material is put into production **when there is any change in the source of supply or a change in colour(s) for the material(s) and the fittings (laces, eyelets, slide fastener, etc).** DND written approval is required prior to using any material from a new supplier.
- 1.2.4** A Certificate of Compliance is a written statement from the supplier guaranteeing the full compliance of the product to the specification, or portion thereof, referenced. This document must be on official company stationary, it must be current, it must make reference to the applicable specification, and it must have the original signature of the company's designated representative. DND reserves the right to verify the statements made in the C of C. Full test results, demonstrating the product's compliance, will be accepted in lieu of a C of C.
- 1.2.5** The Contractor must ensure that the required production samples are manufactured in accordance with the technical and performance requirements outlined in the **Annex B** (Performance Specification for the Hot Weather Safety Boot (HWSB)) and are fully representative of production quantity.
- 1.3 Production Samples.** As part of the evaluation, to confirm a Contractors' capability of meeting the technical and performance requirements, the production samples outlined in Table I must be submitted and approved:

Dated 15 June, 2012

**Table I – Physical Samples To Be Submitted For Approval Of Production**

Time Period	Requirement
For Approval Of Production	Three (3) pairs total of Hot Weather Safety Boots (HWSB): one (1) pair of each in Mondopoint sizes 240/94, 265/104, and 290/114.

**2.0 Production Supporting Documentation and Evaluation.**

**2.1 Production Supporting Documentation.** To confirm a Contractors' capability of meeting the technical and performance requirements, the test results and/or certificates of compliance outlined in Table II must be submitted:

**Table II – Mandatory Material Testing Information At Production Stage**

Material	Requirement and Reference	Testing Requirements and Frequency
		Production
Average Weight (Whole Boot): Weighing will be done on Mondopoint size 265/104 boots including all of the components (insoles, laces, etc).	Sample must be pre-conditioned at 20° Celsius (+/-2° C) with 65% (+/- 2%) relative humidity for a minimum of 24 hours.  Left and right boots of three (3) pairs must be weighted and the results shown.	Test results to be submitted at production start-up, halfway through production, and at any interval where there have been changes in the equipment, process or components used.  Test results done by accredited independent laboratory or accredited in-house facilities.  DND reserves the right to referee the weight through DND independent laboratory facilities. Referee weight tolerances will be +/- 10.0 grams per boot.
Safety Features (Toecap)	CSA-Z195 Grade 1 Protective Toe Cap	Test results to be submitted at production start-up. Test results done by accredited independent laboratory or accredited in-house facilities.

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Material	Requirement and Reference	Testing Requirements and Frequency
		Production
Safety Features (Puncture Resistant Sole)	CSA-Z195 Puncture Resistant Sole	Test results to be submitted at production start-up.  Test results done by accredited independent laboratory or accredited in-house facilities.
Safety Features (Electric Shock Resistance)	CSA-Z195 Electric Shock Resistance	Test results to be submitted at production start-up.  Test results done by accredited independent laboratory or accredited in-house facilities.
Bond Strength – Bottoming Components	ASTM D816 and the procedure outlined in Annex B, paragraph 11.2	Testing for bonding strength of bottoming components shall be conducted at production start-up and halfway through production and at any interval where there have been changes in the equipment, process or components used in attachment of the soles.

**2.2 Production Supporting Documentation – Changes to Suppliers or Colour(s).** To confirm a Contractors' capability of meeting the technical and performance requirements when there are changes to suppliers or colours, the test results and/or certificates of compliance outlined in Table III must be submitted:

Dated 15 June, 2012

**Table III – Mandatory Material Testing Information At Production Stage (Changes in Supplier or Colour)**

Material	Requirement and Reference	Testing Requirements and Frequency	
			Production
Average Weight (Whole Boot): Weighing will be done on Mondopoint size 265/104 boots including all of the components (insoles, laces, etc).	Sample must be pre-conditioned at 20° Celsius (+/-2° C) with 65% (+/-2%) relative humidity for a minimum of 24 hours.  Left and right boots of three pairs must be weighted and the result will be averaged.	Test results to be submitted at production start-up.  Test results done by accredited independent laboratory.	Test results to be submitted at production start-up.  Test results done by accredited independent laboratory or accredited in-house facilities.
Safety Features (Toecap)	CSA-Z195 Grade 1 Protective Toe Cap	Test results to be submitted at production start-up.	Test results to be submitted at production start-up.
Safety Features (Puncture Resistant Sole)	CSA-Z195 Puncture Resistant Sole	Test results to be submitted at production start-up.	Test results to be submitted at production start-up.
Safety Features (Electric Shock Resistance)	CSA-Z195 Electric Shock Resistance	Test results to be submitted at production start-up.	Test results to be submitted at production start-up.
Wicking	Vertical Wicking Test (Annex B, paragraph 11.4)	Test results to be submitted at production start-up.	Test results to be submitted at production start-up.
Drying Rate – Whole Boot	CTT Drying Rate Test	Test results to be submitted at production start-up.	Test results to be submitted at production start-up.

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Material	Requirement and Reference	Testing Requirements and Frequency	
			Production
Flame Resistance – Whole Boot	ASTM F1930	Test results to be submitted at production start-up. There <b>must</b> be video and written report submitted to demonstrate that this performance has been achieved by the submission.	Test results done by accredited independent laboratory or accredited in-house facilities.
Microbial Resistance	The product used to impart the anti-microbial finish <b>must</b> have a Pest Control Product Registration Number that has been issued by the Pest Management Regulatory Agency of Health Canada.	Pest Control Product Registration Number must be provided at production start-up.	
Exposure to Chemicals – Changes in Appearance	Annex B, paragraph 11.1	Certificates of Compliance may be submitted at production start-up that clearly demonstrating that appearance changes for materials have been considered for exposure to all chemicals referenced.	
Whole Boot Moisture Vapour Transmission Rate (MVTR) – Whole Boot	Annex B, Paragraph 11.3	Test results to be submitted at production start-up.	Test results done by accredited independent laboratory or accredited in-house facilities.
Non-Marking Sole	SATRA TM223	Test results to be submitted at production start-up. Certificates of Compliance may be submitted.	
Slip Resistance - Outsole	SATRA TM144 - wet (with Glycerol) stainless steel surface	Test results to be submitted at production start-up.	Test results done by accredited independent laboratory or accredited in-house facilities.

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Material	Requirement and Reference	Testing Requirements and Frequency	
			Production
Volume Swell - Midsole	ASTM D471	Test results to be submitted at production start-up.	Certificates of Compliance may be submitted.
Bond Strength – Bottoming Components	ASTM D816 and the procedure outlined in Annex B, paragraph 11.2	Testing for bonding strength of bottoming components shall be conducted at production start-up and halfway through production and at any interval where there have been changes in the equipment, process or components used in attachment of the soles.	



## NOTICE

This document has been examined by the Technical Authority for content and confirmed that it has no references to controlled goods

### Bid Evaluation Rated Requirements Of the Hot Weather Safety Boot (HWSB)

Phase II - Bid Evaluation Rated Requirements				
Reference	Details			
<b>MOISURE VAPOUR TRANSMISSION RATE (MVTR) in accordance with Annex B, paragraph 2.13</b>	Using the submitted test results, the average Moisture Vapour Transmission Rate (MVTR) of two (2) pairs of finished boots will be determined. The boot with the best Moisture Vapour Transmission Rate (MVTR) will be given top ranking and so on for the first five best pairs. Points will be allocated as per the table.	<b>Average MVTR - Top Five</b>	<b>Points</b>	<b>Weight</b>
		Highest MVTR	1.0	60
		2nd Place	0.8	
		3rd Place	0.6	
		4th Place	0.4	
		5th Place	0.2	
Others	0.0			
<b>AVERAGE WEIGHT in accordance with Annex B, paragraph 2.3</b>	Using the submitted test results, the average weight will be determined. The boot with the lowest average weight will be given top ranking and so on for the first five best pairs. Points will be allocated as per the table.	<b>Weight per boot (grams) - Top Five</b>	<b>Points</b>	<b>Weight</b>
		Lowest Ave. Weight	1.0	30
		2nd Place	0.8	
		3rd Place	0.6	
		4th Place	0.4	
		5th Place	0.2	
Others	0.0			
<b>OVERALL APPEARANCE defined in terms of aesthetic value, function, silhouette, shape, pattern, and use of materials. (The boots will be put into a room and one at a time each representative will rank the boots from the most visually appealing to the least visually appealing according to his/her taste)</b>	The appearance will be judged by a minimum representative audience of ten (10) Navy users. Military personnel will be varied, but all will be from the Royal Canadian Navy, composed of men and women between the ages of 17 to 60, of all ranks and function. The boots will be shown within the military personnel in the National Capital Region and will be moved to other naval units across Canada.  The top five (5) boots in terms of point ratings awarded for MVTR and Average Weight will be subjected to this judgment of appearance. Scores for appearance will be prioritized using a tau-x correlation coefficient. Points will be assigned to each boot based on its position in the consensus ranking.	<b>Appearance - Top Five</b>	<b>Points</b>	<b>Weight</b>
		First Place	1.0	10
		Second Place	0.8	
		Third Place	0.6	
		Fourth Place	0.4	
Fifth Place	0.2			

**EXAMPLES:**

Company: Bidder 1				
Phase	Description	Result		
Phase I	Pre-Award Technical Evaluation			
Phase II	Point Rated Requirements			
	<b>Description</b>	<b>Points</b>	<b>Weight</b>	<b>Total (Points X Weight)</b>
3rd place	MVTR:	0.6	60	36
2nd place	Average Weight	0.8	30	24
First place	Appearance:	1	10	10
<b>TOTAL/100 Points:</b>				<b>70</b>
Price	\$100.00			
Cost-Per-Point:	<b>\$1.43</b>	<b>Lowest Cost Per Point</b>		
Phase III	User Acceptance Trial:			
<b>FINAL RESULT:</b>				



## NOTICE

This document has been examined for content and confirmed that it has no references to controlled goods

### User Evaluation Trial for the Hot Weather Safety Boot (HWSB)

Dated 15 June, 2012

**User Evaluation Trial Of The  
Hot Weather Safety Boot (HWSB)**

**1.0 General.**

- 1.1 **User Evaluation Trial.** This annex describes how The Department of National Defence (DND) is to perform the user evaluation trial of the Hot Weather Safety Boot (HWSB) to determine suitability of service for the Navy. The aim of the user evaluation trial is to confirm that footwear submitted in response to Performance Specification for the Hot Weather Safety Boot (Annex B) meets the performance requirements identified for Navy personnel.
- 1.2 The Hot Weather Safety Boot (HWSB) must meet the requirements of men and women of the Navy, including Regular Forces and Reserve Forces, to provide enhanced foot protection for operations in hot weather within the ambient temperature range of +25 degrees Celsius to +45 degrees Celsius with humidity ranging from 20% to 100% and high levels of direct solar radiation.
- 1.3 The User Evaluation Trial will be conducted ashore and at sea for a period of 30 days. The HWSBs will be exposed to a wide range of fleet conditions.
- 1.4 Trial participants will wear footwear during their normal training, military exercises, and prescribed duties.
- 1.5 **Trial Quantities.** A total of sixty (60) boots will be contracted to support the User Evaluation Trial. The quantities and sizes are outlined in **Annex F** (Size Roll (Trial Quantities)).
  - 1.5.1.1 Trial boots and packaging must not have any identifiable markings, including stamps, hang tags, or markings inside and outside of the boots. Non-compliance of this requirement will result in the trial boots being deemed as non-compliant and subsequently, disqualified for trial.
- 1.6 **Trial Activities.**
  - 1.6.1 **Fitting Exercise.** Trial Officers will give all trial personnel quantities of the Hot Weather Sock in order to control socks worn throughout the trial. Trial Officers will fit trial candidates wearing the Hot Weather Socks with trial boots corresponding to their length and width as measured with a Mondopoint measuring device. Boots varying by one Mondopoint size in length, width, or both length and width will be available as well. Each trial candidate will be asked to undergo a short walk to confirm their sizing and, if applicable, retry additional sizes in order to obtain a proper of fit. Sizes will be recorded.
  - 1.6.2 **Compatibility.** Trial Officers will confirm that trial personnel will wear footwear with applicable clothing and equipment, doing representative Navy tasks, on-board ship and ashore for the duration of the trial to assess compatibility. Issues with compatibility will be noted by Trial Officers and analyzed in the trial report.

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- 1.6.2.1 **Clothing and Personal Protective Equipment Compatibility.** Trial Officers will record observations from trial participants in terms of compatibility while wearing the Hot Weather Safety Boot.
- 1.6.2.2 Participants will be encouraged to adjust their boots and articles of clothing to the best of their ability to accommodate the HWSBs.
- 1.6.2.3 **Donning and Doffing.** Boots shall be donned and doffed by the participants. This process shall be performed with bare hands. Trial Officers shall note any instances of difficulties with the donning/doffing task.
- 1.6.3 **Wearability, Comfort, and Durability.** Trial personnel will be made aware of the care instructions for the footwear. Data collected by Trials Officers about trial conditions and every-day usage will augment the physical examination for wear, tear, and damage.
- 1.7 **Focus Group and Questionnaires.** Trial Officers will conduct an end of trial focus group and trial participants will fill out questionnaires rating the acceptance of the boot in terms of fit and adjustment, accessibility, compatibility, functionality, ease and range of motion, physical comfort, thermal properties, moisture management, weight, user maintainability, and tread and traction. A final question will ask trial participants to confirm the suitability of the boot for service as the hot weather safety boot. An analysis of the data will be conducted and a trial report written.
- 1.8 **Suitability For Service.** The Hot Weather Safety Boot (HWSB) must achieve a minimum of 60% user acceptance (results are averaged) in order for the boot to be deemed suitable for service.

# HOT WEATHER SAFETY BOOT (HWSB) SURVEY

## Size Issued

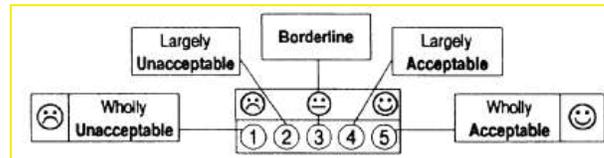
Indicate your measurement on the measuring device - example 275/104: \_\_\_\_\_

Indicate the mondopoint size of the boot you were issued - example 270/102 \_\_\_\_\_

## Fit

	too small	OK	too big
Calf Circumference	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ankle Circumference	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Heel Fit	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Instep Circumference	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Toe Fit	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

## Compliance with Human Factor Performance Specifications



**Rating:** 1=Wholly Unacceptable; 2=Largely Unacceptable; 3=Borderline; 4=Largely Acceptable; 5=Wholly Acceptable

Fit and Adjustment	Rating
I rate the overall fit as:	① ② ③ ④ ⑤
The boot has been broken in within an acceptable period of time:	① ② ③ ④ ⑤
<b>Accessibility</b>	
I rate the donning of the boot as:	① ② ③ ④ ⑤
I rate the doffing of the boot as:	① ② ③ ④ ⑤

# HOT WEATHER SAFETY BOOT (HWSB) SURVEY

<b>Compatibility</b>	
The boots shall not interfere with the operation of clothing. I rate the overall clothing compatibility as:	① ② ③ ④ ⑤
Note any incompatibilities:	
<b>Functionality</b>	
Sailors must be able to wear the boots continuously under normal operational conditions and activities with minimal reduction in operational effectiveness. I rate the overall functionality as:	① ② ③ ④ ⑤
<b>Ease and Range of Motion</b>	
The design of the boots shall provide sufficient ankle support. I rate the ankle support as:	① ② ③ ④ ⑤
The design of the boots shall provide sufficient foot support. I rate the arch and heel support as:	① ② ③ ④ ⑤
I rate the overall ease of movement as:	① ② ③ ④ ⑤
I rate the overall range of movement as:	① ② ③ ④ ⑤
<b>Physical Comfort</b>	① ② ③ ④ ⑤
I rate the overall physical comfort of the boot as:	① ② ③ ④ ⑤
<b>Thermal Properties</b>	① ② ③ ④ ⑤
I rate the sweat release and breathability of the boot (worn in conjunction with the hot weather sock) as:	① ② ③ ④ ⑤
In comparison to previously issued boots, these boots manage the heat better.	Agree or Disagree
<b>Moisture Management</b>	① ② ③ ④ ⑤
The boots were designed to minimize sweat retention and facilitate drying time through wicking effect and evaporation. I rate the moisture management as:	① ② ③ ④ ⑤
<b>Weight</b>	① ② ③ ④ ⑤
I rate the weight of the boots as:	① ② ③ ④ ⑤
<b>User Maintainability</b>	① ② ③ ④ ⑤
The boot should be maintainable by an individual without special tools. I rate the overall maintainability of the boot as:	① ② ③ ④ ⑤



8430-20-006-6689	HOT WEATHER SAFETY BOOTS, GRADE 1 PROTECTIVE TOECAP, PUNCTURE RESISTANT SOLE AND ELECTRIC SHOC RESISTANCE MEETING CSA Z195STANDARDS; LUG OUTSOLE:PADDDED COLLOR, LACE CLOSURE, COLOUR: BLACK / BOTTES DE SECUTIRE POUR TEMPS CHAUD,EMBOUT PROTECTEUR DE CATEGORIE 1, SEMELLES RESISTANT AUX PERFORATIONS ET RESITANCE AUX CHOCS ELECTRIQUES CONFORMEMENT A LA NORME CSA Z195, SEMELLE D'USURE A SCULPTURE, BRACELET REMBOURRE, FERMETURE A LACETS, COULEUR: NOIRE,	NSN / NNO	DESCRIPTION/ DESCRIPTION	Size Grandeur	W8476
8430-20-006-6722	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud			260/94	4
8430-20-006-6723	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud			260/98	4
8430-20-006-6724	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud			260/102	4
8430-20-006-6727	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud			265/96	4
8430-20-006-6728	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud			265/100	4
8430-20-006-6729	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud			265/104	4
8430-20-006-6732	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud			270/98	4
8430-20-006-6733	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud			270/102	4
8430-20-006-6734	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud			270/106	4
8430-20-006-6763	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud			275/100	4
8430-20-006-6764	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud			275/104	4
8430-20-006-6737	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud			275/108	4
8430-20-006-6740	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud			280/102	4
8430-20-006-6741	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud			280/106	4
8430-20-006-6742	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud			280/110	4
					60

NSN / NNO	DESCRIPTION / DESCRIPTION	Size Grandeur	Destination		Quantity Quantité
			Montreal W1941	Edmonton W2481	
8430-20-006-6689	HOT WEATHER SAFETY BOOTS, GRADE 1 PROTECTIVE TOECAP, PUNCTURE RESISTANT SOLE AND ELECTRIC SHOC RESISTANCE MEETING CSA Z195STANDARDS; LUG OUTSOLE:PADDED COLLOR, LACE CLOSURE, COLOUR: BLACK / BOTTES DE SECURITE POUR TEMPS CHAUD,EMBOU PROTECTEUR DE CATEGORIE 1, SEMELLES RESISTANT AUX PERFORATIONS ET RESITANCE AUX CHOCS ELECTRIQUES CONFORMEMENT A LA NORME CSA Z195, SEMELLE D'USURE A SCULPTURE, BRACELET REMBOURRE, FERMETURE A LACETS, COULEUR: NOIRE,				
8430-20-006-6762	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	215/88	144	96	240
8430-20-007-0843	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	215/92	114	76	19C
8430-20-006-6690	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	220/90	162	108	270
8430-20-006-6691	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	225/84	204	136	340
8430-20-006-6692	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	225/88	210	140	350
8430-20-006-6693	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	225/92	222	148	370
8430-20-006-6694	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	225/96	150	100	250
8430-20-006-6695	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	230/86	222	148	370
8430-20-006-6696	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	230/90	162	108	270
8430-20-006-6697	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	230/94	180	120	300
8430-20-006-6698	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	230/98	189	126	315
8430-20-006-6699	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	235/88	183	122	305
8430-20-006-6700	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	235/92	213	142	35F
8430-20-006-6701	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	235/96	240	160	400
8430-20-006-6702	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	235/100	195	130	325
8430-20-006-6703	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	240/90	183	122	305
8430-20-006-6704	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	240/94	264	176	440
8430-20-006-6705	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	240/98	276	184	460
8430-20-006-6706	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	240/102	225	150	375
8430-20-006-6707	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	245/88	168	112	280
8430-20-006-6708	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	245/92	222	148	370
8430-20-006-6709	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	245/96	465	310	775

8430-20-006-6689	NSN / NNO	DESCRIPTION / DESCRIPTION	Size Grandeur	Destination		Quantity Quantité
				Montreal W1941	Edmonton W2481	
	8430-20-006-6710	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	245/100	357	238	595
	8430-20-006-6711	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	245/104	264	176	44
	8430-20-006-6712	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	250/90	171	114	285
	8430-20-006-6713	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	250/94	300	200	500
	8430-20-006-6714	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	250/98	411	274	685
	8430-20-006-6715	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	250/102	657	438	1,095
	8430-20-006-6716	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	250/106	378	252	630
	8430-20-006-6717	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	255/92	255	170	425
	8430-20-006-6718	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	255/96	462	308	770
	8430-20-006-6719	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	255/100	840	560	1,400
	8430-20-006-6720	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	255/104	825	550	1,375
	8430-20-006-6721	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	255/108	450	300	750
	8430-20-006-6722	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	260/94	360	240	600
	8430-20-006-6723	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	260/98	666	444	1,110
	8430-20-006-6724	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	260/102	1,221	814	2,035
	8430-20-006-6725	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	260/106	1,011	674	1,685
	8430-20-006-6726	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	260/110	594	396	990
	8430-20-006-6727	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	265/96	564	376	940
	8430-20-006-6728	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	265/100	789	526	1,315
	8430-20-006-6729	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	265/104	1,455	970	2,425
	8430-20-006-6730	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	265/108	1,104	736	1,840
	8430-20-006-6731	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	265/112	537	358	895

NSN / NNO	DESCRIPTION / DESCRIPTION	Size Grandeur	Destination		Quantity Quantité
			Montreal W1941	Edmonton W2481	
8430-20-006-6689	HOT WEATHER SAFETY BOOTS, GRADE 1 PROTECTIVE TOECAP, PUNCTURE RESISTANT SOLE AND ELECTRIC SHOC RESISTANCE MEETING CSA Z195STANDARDS; LUG OUTSOLE;PADDED COLLOR, LACE CLOSURE, COLOUR: BLACK / BOTTES DE SECURITE POUR TEMPS CHAUD,EMBOU PROTECTEUR DE CATEGORIE 1, SEMELLES RESISTANT AUX PERFORATIONS ET RESITANCE AUX CHOCS ELECTRIQUES CONFORMEMENT A LA NORME CSA Z195, SEMELLE D'USURE A SCULPTURE, BRACELET REMBOURRE, FERMETURE A LACETS, COULEUR: NOIRE,				
8430-20-006-6732	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	270/98	552	368	920
8430-20-006-6733	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	270/102	807	538	1,34
8430-20-006-6734	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	270/106	1,596	1,064	2,660
8430-20-006-6735	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	270/110	1,014	676	1,690
8430-20-006-6736	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	270/114	426	284	710
8430-20-006-6763	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	275/100	645	430	1,075
8430-20-006-6764	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	275/104	795	530	1,325
8430-20-006-6737	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	275/108	1,341	894	2,235
8430-20-006-6738	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	275/112	918	612	1,530
8430-20-006-6739	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	275/116	312	208	520
8430-20-006-6740	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	280/102	795	530	1,325
8430-20-006-6741	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	280/106	1,140	760	1,900
8430-20-006-6742	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	280/110	1,008	672	1,680
8430-20-006-6743	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	280/114	543	362	905
8430-20-006-6744	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	280/118	246	164	410
8430-20-006-6745	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	285/104	486	324	810
8430-20-006-6746	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	285/108	867	578	1,445
8430-20-006-6747	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	285/112	702	468	1,170
8430-20-006-6748	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	285/116	327	218	545
8430-20-006-6749	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	290/106	483	322	805
8430-20-006-6750	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	290/110	528	352	880

8430-20-006-6689	DESCRIPTION / DESCRIPTION	Size Grandeur	Destination Montreal W1941	Destination Edmonton W2481	Quantity Quantité
	HOT WEATHER SAFETY BOOTS, GRADE 1 PROTECTIVE TOECAP, PUNCTURE RESISTANT SOLE AND ELECTRIC SHOC RESISTANCE MEETING CSA Z195STANDARDS; LUG OUTSOLE:PADDDED COLLOR, LACE CLOSURE, COLOUR: BLACK / BOTTES DE SECUTIRE POUR TEMPS CHAUD,EMBOUT PROTECTEUR DE CATEGORIE 1, SEMELLES RESISTANT AUX PERFORATIONS ET RESITANCE AUX CHOCS ELECTRIQUES CONFORMEMENT A LA NORME CSA Z195, SEMELLE D'USURE A SCULPTURE, BRACELET REMBOURRE, FERMETURE A LACETS, COULEUR: NOIRE,				
8430-20-006-6751	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	290/114	465	310	775
8430-20-006-6752	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	290/118	201	134	33
8430-20-006-6753	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	295/108	255	170	425
8430-20-006-6754	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	295/112	330	220	550
8430-20-006-6755	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	295/116	252	168	420
8430-20-006-6756	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	300/110	204	136	340
8430-20-006-6757	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	300/114	228	152	380
8430-20-006-6758	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	305/116	138	92	230
8430-20-006-6759	Hot Weather Safety Boots / Bottes de Sécurité pour temps chaud	310/122	132	88	220
			36,000	24,000	60,000



## NOTICE

This document has been examined by the Technical Authority for content and confirmed that it has no references to controlled goods

### Pre-Award Evaluation of the Hot Weather Safety Boot (HWSB)

Dated 15 June, 2012

## **Pre-Award Evaluation of the Hot Weather Safety Boot (HWSB)**

### **1.0 General.**

**1.1 Pre-Award Evaluation.** This annex describes how The Department of National Defence (DND) is to perform the pre-award evaluation of the Hot Weather Safety Boot (HWSB) in terms of evaluating physical samples for the quality of workmanship and for their ability to demonstrate capability to meet requisite technologies, and for conformance to specified materials and measurements outlined in Annex B. The pre-award evaluation will be done through a technical verification performed by a team of DND Subject Matter Experts (SMEs) with the exception for the conformance to specified materials which will be proven by the submission from the Contractor with the appropriate test results from accredited independent laboratories or, when stated, Certificate(s) of Compliance (C of C).

**1.1.1 Phases.** There are two (2) phases to the pre-award evaluation:

- **Phase I (Technical Verification)** will be completed on all bid submissions to determine technical compliance through the examination of the physical examples, mandatory test results, C of C's, and supporting information outlined in paragraphs 1.2 to 1.4. Phase I will be a pass (compliant) or fail (non-compliant) scenario; and
- **Phase II (Bid Evaluation Rated Requirements)** will be completed solely on bid submissions deemed compliant in Phase I. Phase II consists of each compliant bid being rated in terms of MVTR, Average Weight and Appearance.
  - The average moisture vapour transmission rate (MVTR) of two (2) pairs of finished boots will be determined using the test results submitted for the pre-award evaluation;
  - The average weight of the left and right boots of three (3) pairs (including all of the components such as insoles and laces) will be determined using the test results submitted for the pre-award evaluation; and
  - A minimum representative audience of Ten (10) Navy users will judge the appearance. Military personnel will be varied, but all will be from the Royal Canadian Navy, composed of men and women between the ages of 17 to 60, of all ranks and function. The boots will be shown within the military personnel in the National Capital Region and will be moved to other naval units across Canada. Appearance is defined in terms of aesthetic value, function, silhouette, shape, pattern, and use of materials. The top five (5) boots in terms of the combined point ratings awarded for MVTR and Average Weight will be subjected to this judgment of appearance. Scores for appearance will be prioritized using a tau-x correlation coefficient. Points will be assigned to each boot based on its position in the consensus ranking.

Refer to **Annex D** (Bid Evaluation Rated Requirements) for details. In selecting the top three technical boots, if a tie (total points) were to occur the tiebreak would be done by first choosing the best moisture vapour transmission rate (MVTR). If still tied, then

Dated 15 June, 2012

the average weight will be used as the tiebreaker. Should there still continue to be a tie, the final tiebreaker will be the unit price of the boots for the firm quantity delivered to the Montreal Depot (25CFSD).

**1.1.2 Testing, Test Methods, and Certificate of Compliance.**

1.1.2.1 Unless otherwise specified, all testing and test methods must be in accordance with the specified requirements. Test specimens must be sampled using best practices (for example, textiles taken from the same sample of cloth, textiles/leather/materials conditioned, and selected at random from each lot). An accredited independent laboratory familiar with polymer, textile, leather, and/or footwear-related testing must conduct all testing unless otherwise stated. Testing carried out by university textile testing laboratories will also be acceptable. Should a non-accredited laboratory be required for specific tests, approval must be sought and received in writing from the Contracting Authority in advance.

1.1.2.2 The test interval is subject to change. It may be increased or decreased at the discretion of the Department of National Defence. DND may also request additional tests and samples at any time.

1.1.3 A Certificate of Compliance is a written statement from the supplier guaranteeing the full compliance of the product to the specification, or portion thereof, referenced. This document must be on official company stationery, it must be current, it must make reference to the applicable specification, and it must have the original signature of the company's designated representative. DND reserves the right to verify the statements made in the C of C. Full test results, demonstrating the product's compliance, will be accepted in lieu of a C of C.

1.2 **Pre-Award Samples.** As part of the evaluation, to confirm a Contractors' capability of meeting the technical and performance requirements, the pre-award samples outlined in Table I must be submitted:

**Table I – Physical Samples To Be Submitted At Pre-Award**

Time Period	Requirement
Pre-Award Stage (at bid closing)	A box with one (1) pair of Hot Weather Safety Boots (HWSB) in mondopoint size 265/104 with an extra pair of laces and removable inserts, and appropriate care labeling.
Pre-Award Stage (at bid closing)	One (1) boot (size 265/104) cut in half lengthwise (toe to heel) to demonstrate how the boot is constructed.

1.2.1 Boots and packaging must not have any identifiable markings, including stamps, hang tags, or markings inside and outside of the boots. Non-compliance of this requirement will result in the bid being disqualified.

1.2.2 The Contractor must ensure that the required pre-award samples are manufactured in accordance with the technical and performance requirements outlined in the **Annex B** (Performance Specification for the Hot Weather Safety Boot (HWSB)) and are fully representative of the bid submitted.

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1.2.3 **Material Substitutions.** At the pre-award stage, no material substitutions will be allowed. All materials must be strictly in accordance with the technical and performance requirement.

1.3 **Evaluation of quality of workmanship and ability to demonstrate capability to meet requisite technologies.**

1.3.1 **Workmanship and Construction Evaluation.** As part of the evaluation, to confirm a Contractors' submission for the quality of workmanship and for the ability to demonstrate capability to meet requisite technologies, the workmanship and construction will be evaluated using the criteria outlined in Table II.

1.3.2 **Definitions.**

1.3.2.1.1 **Critical Infraction.** A critical infraction is defined as a non-compliance of a performance requirement deemed essential in Annex B.

1.3.2.1.2 **Infraction.** An infraction is defined as a workmanship or construction issue evaluated to be non-compliant that directly affects serviceability of the boot or affects overall quality assurance.

1.3.2.1.3 **Observation.** An observation is defined as a workmanship or construction issue evaluated to be non-compliant that does not necessarily affect serviceability of the boot but affects overall quality assurance.

1.3.2.2 **Maximum Infractions.** No critical workmanship and construction infractions will be accepted in any of the pre-award samples. A maximum of three (3) workmanship and construction infractions will be accepted in any of the pre-award samples. Observations will be noted and referenced in the pre-award evaluation to then be corrected in trial quantities and production. Workmanship or construction issues found with the submission not listed in Table II will be noted but not evaluated as critical or as an infraction.

**Table II – Workmanship and Construction Evaluation**

Reference in Annex B	Criteria	Classification of Infraction* (see note)	
		Critical	Observation
Paragraph 2.1 (Sole Attachment Method)	The sole attachment method must be Goodyear Welt or Direct Injection process.	X	
Paragraph 2.2 (Colour)	Exterior and interior materials and components not colour specified.	X	
Paragraph 2.4 (Height)	Height of size 265/104 boots is outside of minimum height 7.5 inches (19.0 cm) or maximum height of 8.5 inches (21.6 cm).	X	

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Reference in Annex B	Criteria	Classification of Infraction* (see note)		
		Critical	Infraction	Observation
Paragraph 4.1.1.2 (Removable Inserts)	The inserts must use a heel strike pad or equivalent technology. The inserts <b>must</b> be permanently formed to cup around the foot at the heel and provide support through the arch area.	X		
Paragraph 5.1 (Toecap)	There <b>must</b> be a comfortable transition from the edge of the protective toecap to the rest of the boot so that users cannot feel the edge.	X		
Paragraph 5.2 (Tongue)	The tongue <b>must</b> be designed to lay flat so that no pressure points result on the top of the foot when the boot is in use.	X		
Paragraph 5.3 (Design of the Upper)	The design of the upper <b>must</b> prevent fluid “splash over” protection against accidental spillage of liquids such as, but not limited to, hot oils as used by cooks and common POL products.	X		
Paragraph 5.3 (Design of the Upper)	The design <b>must</b> be considered lace-to-toe.	X		
Paragraph 5.4 (Closure System)	Elements used in closure system poorly attached or have a poor finish.	X		
Paragraph 5.4 (Closure System)	Elements used in closure system are not spaced properly causing misalignment to the extent of interfering with proper closure seriously affecting serviceability.	X		
Paragraph 5.4.1 (Laces)	The laces <b>must</b> be long enough to allow donning of the boots with laces still threaded through the top of the closure system.	X		
Paragraph 5.4.2 (Slide Fastener Side Entry)	Slide fastener side entry system <b>must</b> be located on the medial side of the boots to augment the main closure system.	X		
Paragraph 5.6 (Counters)	To prevent any discomfort when the finished boot is worn, the upper edge of the counters <b>must</b> be smooth and free of wrinkles. They must be properly moulded to fit the back of the boot.	X		
Paragraph 8.1 and 8.2	Labeling omitted, incorrect, illegible, or incomplete.	X		

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Reference in Annex B	Criteria	Classification of Infraction* (see note)		
		Critical	Infraction	Observation
Paragraph 8.3 (Marking of Footbed)	Marking omitted, incorrect, illegible, or incomplete.	X		
Paragraph 8.4 (Care Instructions)	Care instructions omitted, illegible, or incomplete.	X		
Paragraph 8.5 (Laces and Removable Inserts)	Extra pairs of laces and removable inserts missing.	X		
Paragraph 8.6 (Company Logo)	At the Pre-Award Stage, submissions must not have any identifiable markings, including stamps, hang tags, or markings inside and outside of the boots. Non-compliance of this requirement will result in the bid being disqualified.	X		
Paragraph 10.0 (Packaging)	Packaging omitted, incorrect, or incomplete.	X		
<b>Construction and Assembly - General</b>	<b>Applicable to all components and assemblies unless otherwise indicated.</b>			
Construction and Assembly - General	Any operation omitted or not properly performed, or any part missing.		X	
Construction and Assembly - General	Incomplete manufacturing process.		X	
Construction and Assembly - General	Cuts, tears, holes, rips, mend, lumps, creases, weak place, or other deficiencies seriously affecting serviceability.		X	
Construction and Assembly - General	Material defects such as, but not limited to, boney, loose, flanky, or otherwise inferior upper materials, weak spots or mends, discolouration, etc.		X	
Construction and Assembly - General	Manufacturing defects such as, but not limited to, burns, blooms, staining, discolouration, hazing, blisters, embedded foreign material, pits, air pockets, etc.		X	
Construction and Assembly - General	Incomplete or incorrect bonding of bottoming components.		X	
Construction and Assembly - General	Needle chews likely to develop into a hole.		X	

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Reference in Annex B	Criteria	Classification of Infraction* (see note)		
		Critical	Infraction	Observation
Construction and Assembly - General	Poor or uneven lasting affecting serviceability.		X	
Construction and Assembly - General	Components missing or wrong size.		X	
Construction and Assembly - General	Noticeable separation of parts		X	
Construction and Assembly - General	Any open seam, any row of stitching missing, stitching uneven tension, appropriate number of stitches per inch for material, loose stitching resulting in loosely secured seam, tight stitch resulting in puckering of fabric or assembly, thread ends not trimmed, or parts caught in an unrelated row of stitching,		X	
Construction and Assembly - General	Grease, oil, or other foreign matter on outside or inside of finished footwear.		X	
Construction and Assembly - General	Pairs of finished boots not right and left of same size.		X	
Construction and Assembly - General	Pairs of finished boots have significant variation in shade or colour.			X

\*NOTE: The classification of "infraction" is for the purposes of evaluation only.

**1.4 Evaluation Of Conformance To Specified Materials And Measurements Outlined In Annex B.**

**1.4.1 Material Testing Information.** As part of the evaluation, to confirm a Contractors' capability of meeting the technical and performance requirements, the test results and/or certificates of compliance outlined in Table III must be submitted:

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Table III – Mandatory Material Testing Information At Pre-Award

Material	Reference in Annex B	Requirement and Reference	Testing Requirements	
			Pre-Award	
Average Weight (Whole Boot): Weighing will be done on Mondopoint size 265/104 boots including all of the components (insoles, laces, etc).	Paragraph 2.3	Sample must be pre-conditioned at 20° Celsius (+/-2° C) with 65% (+/-2%) relative humidity for a minimum of 24 hours.  Left and right boots of three (3) pairs must be weighted and the result will be averaged.	Test results done by accredited independent laboratory.  DND reserves the right to referee the weight through DND independent laboratory facilities.  Referee weight tolerances will be +/- 10.0 grams per boot.	
Safety Features (Toecap)	Paragraph 2.7	CSA-Z195 Grade 1 Protective Toe Cap	Test results done by accredited independent laboratory or in-house facilities.	
Safety Features (Puncture Resistant Sole)	Paragraph 2.7	CSA-Z195 Puncture Resistant Sole	Test results done by accredited independent laboratory or in-house facilities.	
Safety Features (Electric Shock Resistance)	Paragraph 2.7	CSA-Z195 Electric Shock Resistance	Test results done by accredited independent laboratory or in-house facilities.	
Wicking	Paragraph 2.8	Vertical Wicking Test (Annex B, paragraph 11.4)	Not required at pre-award stage.	
Drying Rate – Whole Boot	Paragraph 2.9	CTT Drying Rate Test	Test results done by accredited independent laboratory.	
Flame Resistance – Whole Boot	Paragraph 2.10	ASTM F1930	Test results done by accredited independent laboratory. There <b>must</b> be video and written report submitted to demonstrate that this performance has been achieved by the submission.	

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Material	Reference in Annex B	Requirement and Reference	Testing Requirements	
				Pre-Award
Microbial Resistance	Paragraph 2.11	The product used to impart the anti-microbial finish <b>must</b> have a Pest Control Product Registration Number that has been issued by the Pest Management Regulatory Agency of Health Canada.	Pest Control Product Registration Number must be provided.	
Exposure to Chemicals – Changes in Appearance	Paragraph 2.12	Annex B, paragraph 11.1	Certificates of Compliance may be submitted clearly demonstrating that appearance changes for materials have been considered for exposure to all chemicals referenced.	
Whole Boot Moisture Vapour Transmission Rate (MVTR) – Whole Boot	Paragraph 2.13	Annex B, Paragraph 11.3	Test results done by accredited independent laboratory.	
Non-Marking Sole	Table 3	SATRA TM223	Certificates of Compliance may be submitted.	
Slip Resistance - Outsole	Table 3	SATRA TM144 - wet (with Glycerol) stainless steel surface	Test results done by accredited independent laboratory.	
Volume Swell - Midsole	Table 3	ASTM D471	Certificates of Compliance may be submitted.	
Bond Strength – Bottoming Components	Table 3	ASTM D816 and the procedure outlined in Annex B, paragraph 11.2	Test results done by in-house facilities or accredited independent laboratories.	

1.4.2 **Component, Design, and Manufacturing Process Information.** In addition to the physical examples (as outlined in Table I) and the test results (outlined in Table III) to be provided at the Pre-Award Stage, Contractors must submit a written description of the overall component, design, and manufacturing process features. Any innovations must be described in general terms.

<p>1. Each matched pair of boots (and its accessories) must be packaged in a suitable box, in accordance with good commercial practice (suggestion – Style 8 (FPF) Five-Panel Wrapper). The box must be taped to effect closure. On one end of the box, the following must be legibly marked (labelled):</p> <p>NATO Stock Number (NSN) * - As specified on contract  Nomenclature (including size) ** - As specified on contract  Quantity / Unit of Issue - 1 PR</p> <p>2. A quantity of packages, of the same NSN, must be packed into a corrugated fibreboard box conforming to Canadian General Standards Board (CGSB) specification CAN/CGSB-43.22-2001. The box size and content quantity must be uniform for the duration of the contract. Suggestion as follows:</p> <p>No material handling equipment required – Overall inside dimensions (length, width and depth added) must not exceed 1.5 metres (59 inches). The maximum weight of the box and contents must not exceed 18 kilograms (40 pounds).</p> <p>Material handling equipment required – The box(es) must be compatible with the requirements of paragraph 7.</p> <p>3. Closure of the corrugated fibreboard box must be in accordance with CGSB specification CAN/CGSB-43.22-2001 (Appendix B).</p> <p>4. On one end of each corrugated fibreboard box, stencilling or labelling in figures as large as practicable in relation to the space available must legibly mark the following information:</p> <p>NATO Stock Number (NSN) * - As specified on contract  Nomenclature (including size) ** - As specified on contract  Quantity (per box) / Unit of Issue - ___ PR  Gross Weight (nearest kg) - As applicable  Contract Serial Number - As specified on contract</p>	<p style="text-align: center;">Canadian Forces Transportation Packaging Order</p> <h2 style="text-align: center;">CFTPO-HWSB</h2> <p style="text-align: center;">Date <b>15 Mar 2012</b></p> <p style="text-align: center;">Nomenclature <b>BOOTS, HOT WEATHER SAFETY</b></p> <p style="text-align: center;">Sheet <b>1 of 1</b></p> <p style="text-align: center;">Based on <b>8430-20-006-6689 A/A</b></p>
<p>5. On one side of each corrugated fibreboard box, stencilling or labelling in figures as large as practicable in relation to the space available must legibly mark the following information:</p> <p>Consignee - As specified on contract  Consignor - Supplier's name or symbol  Case ___ of ___ cases - As applicable within each shipment</p> <p>6. The last shipping container of each shipment must have affixed to the side on which the shipping instructions are contained (paragraph 5), an envelope containing the Packing List, Release Note, etc. This water-resistant envelope must be prominently marked "Packing List Enclosed" and must be securely affixed to the outside wall of the container.</p> <p>7. Shipments must be palletized in uniform loads (grouped by NSN) and strapped/secured on standard 4-way entry, 48-inch by 40-inch wood or fibreboard non-returnable pallets, to be supplied by the contractor. Total height, including pallet, must not exceed 47 inches.</p> <p>* Marking must be applied using Bar Code Symbolology GS1-128 with AI 7001, including HRI (in accordance with D-LM-008-002/SF-001)  ** Bilingual format - English/French</p>	<p>Draftsman <b>H. Fraser</b>  Checker <b>H. Fraser</b>  Design Engineer <b>DSCO 5-4-3</b></p> <p>Approval Stamp </p>



## NOTICE

This document has been examined by the Technical Authority for content and confirmed that it has no references to controlled goods

### Pre-Trial Technical Evaluation Requirements for the Hot Weather Safety Boot (HWSB)

Dated 15 June, 2012

**Pre-Trial Technical Evaluation Of  
The Hot Weather Safety Boot (HWSB)**

- 1.0 General.**
- 1.1 Pre-Trial Evaluation.** This annex describes how The Department of National Defence (DND) is to perform the pre-trial technical evaluation of the Hot Weather Safety Boot (HWSB) in terms of evaluating physical samples for the quality of workmanship and construction, for their ability to demonstrate capability to meet requisite technologies, and for conformance to specified materials and measurements outlined in **Annex B**. The pre-trial technical evaluation will be done through a technical verification performed by a team of DND Subject Matter Experts (SMEs) with the exception for the conformance to specified materials which will be proven by the submission from the Contractor with the appropriate test results from accredited independent laboratories or, when stated, Certificate(s) of Compliance (C of C).
- 1.2 Trial Stage Submission.**
- 1.2.1 Trial Quantities.** The following trial quantities outlined in Table I must be submitted:

**Table I – Physical Samples To Be Submitted For Trial**

<b>Time Period</b>	<b>Requirement</b>
Trial Quantities	Sixty (60) pairs of trial quantities of Hot Weather Safety Boots (HWSB) in accordance with <b>Annex F</b> .

- 1.2.1.1** Boots and packaging must not have any identifiable markings, including stamps, hang tags, or markings inside and outside of the boots. Non-compliance of this requirement will result in the trial boots being deemed as non-compliant and subsequently, disqualified for trial.
- 1.2.2 Technical Information.** The following technical information must be submitted with the trial quantities:

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**Table II – Mandatory Material Testing Information To Be Submitted At Trial Stage**

Material	Reference in Annex B	Requirement and Reference	Testing Requirements	
			Trial Stage	
Average Weight (Whole Boot): Weighing will be done on Mondopoint size 265/104 boots including all of the components (insoles, laces, etc).	Paragraph 2.3	Sample must be pre-conditioned at 20° Celsius (+/-2° C) with 65% (+/-2%) relative humidity for a minimum of 24 hours.  Left and right boots of three (3) pairs must be weighted and the results shown.	Test results done by accredited independent laboratory.	
Safety Features (Toecap)	Paragraph 2.7	CSA-Z195 Grade 1 Protective Toe Cap	Test results done by accredited independent laboratory or accredited in-house facilities.	
Safety Features (Puncture Resistant Sole)	Paragraph 2.7	CSA-Z195 Puncture Resistant Sole	Test results done by accredited independent laboratory or accredited in-house facilities.	
Safety Features (Electric Shock Resistance)	Paragraph 2.7	CSA-Z195 Electric Shock Resistance	Test results done by accredited independent laboratory or accredited in-house facilities.	
Whole Boot Moisture Vapour Transmission Rate (MVTR) – Whole Boot	Paragraph 2.13	Annex B, Paragraph 11.3	Test results done by accredited independent laboratory.	

1.3 **Pre-Trial Technical Evaluation.** There are two (2) phases to the pre-trial technical evaluation:

- **Phase I (Technical Verification of Bid Evaluation Rated Requirements)** will be completed on all trial submissions to determine technical compliance through the submission of mandatory test results outlined in Table II and **Annex D**. Bidders making trial footwear will be informed of the points allotted for each category in **Annex D** for their submission at the end of the pre-award stage. Phase I will be a pass (compliant) or fail (non-compliant) scenario.

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- **Moisture Vapour Transmission Rate (MVTR):** Test results will be submitted. Positive tolerances resulting in increase in MVTR will be allowed. Negative tolerances will not be allowed. . The boots will be deemed as non-compliant and subsequently, disqualified for trial. For example:

Boot A	Pre-Award	Trial	Result
MVTR – Test Results	6.2 grams/hour	6.6 grams/hour	Positive Tolerance - Compliant
MVTR – Test Results	6.2 grams/hour	6.0 grams/hour	Negative Tolerance - Non-Compliant

- **Weight:** Test results will be submitted. Negative tolerances in weight will be allowed. Positive tolerances in weight will not be allowed. The boots will be deemed as non-compliant and subsequently, disqualified for trial. For example:

Boot A	Pre-Award	Trial	Result
Average Weight	698.0 grams	690.0 grams	Negative Tolerance - Compliant
Average Weight	698.0 grams	721.0 grams	Positive Tolerance – Non-Compliant

- **Phase II (Workmanship and Construction Evaluation)** will be completed on all trial submissions to confirm a Contractors' submission for the quality of workmanship and for the ability to demonstrate capability to meet requisite technologies. Phase II will be a pass (compliant) or fail (non-compliant) scenario.
- The following definitions will apply:
  - **Critical Infraction.** A critical infraction is defined as a non-compliance of a performance requirement deemed essential in Annex B.
  - **Infraction.** An infraction is defined as a workmanship or construction issue evaluated to be non-compliant that directly affects serviceability of the boot or affects overall quality assurance.
  - **Observation.** An observation is defined as a workmanship or construction issue evaluated to be non-compliant that does not necessarily affect serviceability of the boot but affects overall quality assurance.
  - **Maximum Infractions.** No critical workmanship and construction infractions will be accepted in any of the trial samples. No workmanship and construction infractions will be accepted in any of the trial samples. If workmanship and construction infractions are found, the boots will be deemed as non-compliant and subsequently, disqualified for trial. The workmanship and construction of the trial boots will be evaluated using the criteria outlined in Table III.

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Table III – Workmanship and Construction Evaluation

Reference in Annex B	Criteria	Classification of Infraction* (see note)	
		Critical	Infraction
Paragraph 2.1 (Sole Attachment Method)	The sole attachment method must be Goodyear Welt or Direct Injection process.	X	
Paragraph 2.2 (Colour)	Exterior and interior materials and components not colour specified.	X	
Paragraph 2.4 (Height)	Height of size 265/104 boots is outside of minimum height 7.5 inches (19.0 cm) or maximum height of 8.5 inches (21.6 cm).	X	
Paragraph 4.1.1.2 (Removable Inserts)	The inserts must use a heel strike pad or equivalent technology. The inserts <b>must</b> be permanently formed to cup around the foot at the heel and provide support through the arch area.	X	
Paragraph 5.1 (Toecap)	There <b>must</b> be a comfortable transition from the edge of the protective toecap to the rest of the boot so that users cannot feel the edge.	X	
Paragraph 5.2 (Tongue)	The tongue <b>must</b> be designed to lay flat so that no pressure points result on the top of the foot when the boot is in use.	X	
Paragraph 5.3 (Design of the Upper)	The design of the upper <b>must</b> prevent fluid “splash over” protection against accidental spillage of liquids such as, but not limited to, hot oils as used by cooks and common POL products.	X	
Paragraph 5.3 (Design of the Upper)	The design <b>must</b> be considered lace-to-toe.	X	
Paragraph 5.4 (Closure System)	Elements used in closure system poorly attached or have a poor finish.	X	
Paragraph 5.4 (Closure System)	Elements used in closure system are not spaced properly causing misalignment to the extent of interfering with proper closure seriously affecting serviceability.	X	
Paragraph 5.4.1 (Laces)	The laces <b>must</b> be long enough to allow donning of the boots with laces still threaded through the top of the closure system.	X	

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Reference in Annex B	Criteria	Classification of Infraction* (see note)		
		Critical	Infraction	Observation
Paragraph 5.4.2 (Slide Fastener Side Entry)	Slide fastener side entry system <b>must</b> be located on the medial side of the boots to augment the main closure system.	X		
Paragraph 5.6 (Counters)	To prevent any discomfort when the finished boot is worn, the upper edge of the counters <b>must</b> be smooth and free of wrinkles. They must be properly moulded to fit the back of the boot.	X		
Paragraph 8.1 and 8.2 (Labeling)	Labeling omitted, incorrect, illegible, or incomplete.	X		
Paragraph 8.3 (Marking of Footbed)	Marking omitted, incorrect, illegible, or incomplete.	X		
Paragraph 8.4 (Care Instructions)	Care instructions omitted, illegible, or incomplete.	X		
Paragraph 8.5 (Laces and Removable Inserts)	Extra pairs of laces and removable inserts missing.	X		
Paragraph 8.6 (Company Logo)	Submissions must not have any identifiable markings, including stamps, hang tags, or markings inside and outside of the boots. Non-compliance of this requirement will result in the bid being disqualified.	X		
Paragraph 10.0 (Packaging)	Packaging omitted, incorrect, or incomplete.	X		
<b>Construction and Assembly - General</b>	<b>Applicable to all components and assemblies unless otherwise indicated.</b>			
Construction and Assembly - General	Any operation omitted or not properly performed, or any part missing.		X	
Construction and Assembly - General	Incomplete manufacturing process.		X	
Construction and Assembly - General	Cuts, tears, holes, rips, mend, lumps, creases, weak place, or other deficiencies seriously affecting serviceability.		X	
Construction and Assembly - General	Material defects such as, but not limited to, boney, loose, flanky, or otherwise inferior upper materials, weak spots or mends, discolouration, etc.		X	

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Reference in Annex B	Criteria	Classification of Infraction* (see note)		
		Critical	Infraction	Observation
Construction and Assembly - General	Manufacturing defects such as, but not limited to, burns, blooms, staining, discolouration, hazing, blisters, embedded foreign material, pits, air pockets, etc.		X	
Construction and Assembly - General	Incomplete or incorrect bonding of bottoming components.		X	
Construction and Assembly - General	Needle chews likely to develop into a hole.		X	
Construction and Assembly - General	Poor or uneven lasting affecting serviceability.		X	
Construction and Assembly - General	Components missing or wrong size.		X	
Construction and Assembly - General	Noticeable separation of parts		X	
Construction and Assembly - General	Any open seam, any row of stitching missing, stitching uneven tension, appropriate number of stitches per inch for material, loose stitching resulting in loosely secured seam, tight stitch resulting in puckering of fabric or assembly, thread ends not trimmed, or parts caught in an unrelated row of stitching,		X	
Construction and Assembly - General	Grease, oil, or other foreign matter on outside or inside of finished footwear.		X	
Construction and Assembly - General	Pairs of finished boots not right and left of same size.		X	
Construction and Assembly - General	Pairs of finished boots have significant variation in shade or colour.			X

\*NOTE: The classification of "infraction" is for the purposes of evaluation only.

1.3 **Testing, Test Methods, and Certificates of Compliance.**

1.3.1 Unless otherwise specified, all testing and test methods must be in accordance with the specified requirements. Test specimens must be sampled using best practices (for example, textiles taken from the same sample of cloth, leather conditioned and selected at random from

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each lot). An accredited independent laboratory familiar with polymer, textile, leather, and/or footwear-related testing must conduct all testing unless otherwise stated. Testing carried out by university textile testing laboratories will also be acceptable. Should a non-accredited laboratory be required for specific tests, approval must be sought and received in writing from the Contracting Authority in advance.

- 1.3.2 A Certificate of Compliance is a written statement from the supplier guaranteeing the full compliance of the product to the specification, or portion thereof, referenced. This document must be on official company stationery, it must be current, it must make reference to the applicable specification, and it must have the original signature of the company's designated representative. DND reserves the right to verify the statements made in the C of C. Full test results, demonstrating the product's compliance, will be accepted in lieu of a C of C.



This document has been examined by the Technical Authority for content  
and confirmed that it has no references to controlled goods

**REFERENCES, SEALED PATTERNS,  
AND TERMINOLOGY FOR THE  
PERFORMANCE SPECIFICATION  
FOR THE  
HOT WEATHER SAFETY BOOT  
(HWSB)**

**NSN 8430-20-006-6689**

**REFERENCES, SEALED PATTERNS,  
AND TERMINOLOGY FOR THE  
PERFORMANCE SPECIFICATION  
FOR THE  
HOT WEATHER SAFETY BOOT  
(HWSB)**

**NSN 8430-20-006-6689**

**1.0 REFERENCES:**

The following documents are referenced and will be considered part of the requirement for the Hot Weather Safety Boot (HWSB). Sources are as shown:

**Department of National Defence,  
Ottawa, Ontario, K1A 0K2  
Attention: DSCO 4-7-5.**

CFTPO-HWSB                      Canadian Forces Transportation Packaging  
Order

**American Society for Testing and Materials (ASTM)  
100 Barr Harbor Drive, P.O. Box C700  
West Conshohocken, Pennsylvania, U.S.A.  
19428-2959**

D471	Rubber Property – Effect of Liquids
D816	Test Methods For Rubber Cements
D3183	Standard Practice for Rubber—Preparation of Pieces for Test Purposes from Products
D5034	Breaking Strength and Elongation of Textile Fabrics (Grab Test)
F1930	Standard Test Method for Evaluation of Flame Resistant Clothing for Protection Against Flash Fire Simulations Using an Instrumented Manikin



**General Services Administration  
Federal Supply Service  
FSS Product Acquisition Center  
Supply Standards Division (FLAS)  
Arlington, VA  
22202 USA  
Telephone: 703-605-2567  
Website: <http://apps.fss.gsa.gov/pub/fedspecs/>  
Download Documents: <http://assist.daps.dla.mil/quicksearch/>**

FED-STD-595                      Federal Standard Colours Used in Government  
Procurement

**Group CTT Group  
3000, rue Boullé,  
Saint-Hyacinthe, Québec  
J2S 1H9**

**Phone: (450) 778-1870  
Phone (Toll Free): (877) 288-8378  
Fax: (450) 778-3901**

Drying Rate

**SAE International  
World Headquarters  
400 Commonwealth Drive  
Warrendale, PA 15096-0001 USA  
Telephone: 1-877-606-7323  
Website: <http://www.sae.org>**

SAE J 1966\*6                      Lubricating Oils, Aircraft Piston Engine (Non-  
Dispersant Mineral Oil)

**Standards Council of Canada  
270 Albert Street, Suite 200  
Ottawa, ON  
K1P 6N7  
Telephone: (613) 238-3222  
Email: [info@scc.ca](mailto:info@scc.ca)**

ISO 20344                      Personal protective equipment -- Test  
methods for footwear

**Shoe and Allied Trades Research Association (SATRA)  
SATRA House, Rockingham Road,  
Kettering, Northants, England NN169JH**

TM144                                      Friction (Slip Resistance) of Footwear and  
Floorings

TM223                                      Floor Marking By Solings Of Top Pieces

**2.0 SEALED PATTERNS:**

The following sealed patterns are referenced and will be considered part of the requirement for the Hot Weather, Safety Boot (HWSB).

DSSPM 396-12                              Sock System - Hot Weather Sock

**3.0 TERMINOLOGY:**

- a.     **Extended Combat Sock System:** The extended combat sock system consists of four (4) socks: a polyester/nylon liner sock (NSN 8440-21-920-7434 A/A) to wick moisture away from the foot, a medium weight hot weather sock (NSN 8440-20-003-3311 A/A) for wear in hot to warm temperatures, a medium weight, wool and nylon temperate sock (NSN 8440-21-920-3470 A/A) for wear in mild to cold temperatures, and a wool/nylon, heavyweight, thermal sock (NSN 8440-21-920-3705 A/A) for wear in colder temperatures. The temperate and thermal socks are designed to be worn with the liner sock in order to increase comfort and decrease friction-causing foot injuries. These socks, alone or in combination, allow the user to choose the level of thermal protection required to address personal variables in work rate and metabolism.
- b.     **Mondopoint sizing:** The Canadian Forces has adopted the mondopoint sizing system to standardize the sizing of military footwear. In the mondopoint sizing system, there is a direct relationship between foot size (wearing appropriate socks) and boot size. Mondopoint marking is composed of two sets of figures expressed in millimeters; the first represents the foot length and the second represents foot width at the ball joint (example: 280/110).
- c.     **Shelf Life:** Shelf life is defined as the length of time an item can be stores under specific conditions of temperature, humidity, and light and continue to remain viable for its' intended use.
- d.     **Bottoming Components:** For this specification, bottoming components are defined as all of the components of the boot below the foot. This could include, but not be restricted to, some or all of the following: footbed,

lasting insole, shank, midsole, cushion midsole, and outsole. It is understood that some sole attachment methods may not utilize all of these components.