

Sealed Tenders Will Be

Received By: Dean Sauriol, Chief Administrative Officer

44 Main Street, P.O. Box 40

Cobden, Ontario K0J 1K0

Tender Closing Date: Thursday July 31, 2003

Tender Closing Time: 12:00 P.M.

Tender Opening Time: 12:30 P.M.

**Tender For: STRUCTURAL FIREFIGHTERS PROTECTIVE CLOTHING -  
26 Units**

(LOWEST OR ANY TENDER NOT NECESSARILY ACCEPTED)

**STRUCTURAL FIREFIGHTERS PROTECTIVE CLOTHING - 26 Units**

The Contractor has carefully examined the conditions and specifications attached and referred to in this contract and understands and accepts the said conditions and specifications, and for the prices set for in this tender, hereby offers to furnish all labour, equipment and materials, except as otherwise specified in the contract, to complete the work in strict accordance with said conditions and specifications.

Attached to this tender is a certified cheque in the amount of 10% of the total tender, made payable to the Municipality. The proceeds of this cheque shall, upon acceptance of the tender, constitutes a deposit which shall be forfeited to the Municipality, if the Contractor fails to fulfil the tendered obligations as per their submission.

This tender submission shall be irrevocable for a period of thirty (30) calendar days following the date of tender opening.

I/We (the Contractor) promise to perform the work without undue delay and complete the work by: \_\_\_\_\_

Name of Individual or Firm: \_\_\_\_\_  
(hereafter referred to as the  
"Contractor")

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

Signature of Person Signing for Firm: \_\_\_\_\_

Date: \_\_\_\_\_

Office of Person Signing For Firm: \_\_\_\_\_

Witness or Firm Seal: \_\_\_\_\_



Payment at the Contract price shall be paid in full upon fulfilment of the order

## General Specifications for Structural Firefighters Protective Clothing

### For the Township of Whitewater Region

#### **Scope**

This specification is intended to define the minimum requirements for protective clothing for firefighters. This specification details the design and materials criteria to afford protection to the upper and lower torso (excluding head, feet and hands), against adverse effects of structural fire fighting operations.

#### **Sizing**

The complete garments (coat and pant) shall be designed to minimize restriction to movement and maintain the overlap requirements of all applicable standards. The garments (coat and pant) shall be available in measurements to fit the wide variety of sizing demands including women and over size garments.

Sizing such as small, medium and large etc. will not be accepted, **NO EXCEPTIONS.**

The successful bidder shall be responsible to size and tailor each garment to appropriate firefighter.

#### **Outer shell material**

The outer shell material of the coat and pant shall be constructed of Nomex III aramid (7.5 oz.). Shall be of duck weave and treated with a water repellent finish.

#### **Thermal liner**

The thermal liner shall be constructed of a certified accepted and recognized material stitched to a Nomex aramid cloth.

The thermal liner shall be attached to the moisture barrier in a manner not utilizing neoprene binding.

#### **Moisture barrier**

The moisture barrier of the coat and pant shall be constructed of Gore Cross Tech laminated to E-89 spun laced Nomex/Kevlar aramid blend face cloth.

The moisture barrier material and seam sealing of the coat and pant shall meet all moisture barrier requirements of the latest edition of the CAN/CGSB-155.1-M88 standard and the NFPA 1971 standard. **NO EXCEPTIONS.**

Neoprene bound edges along the thermal liner/moisture barrier and reinforcements of the knees, shoulders and elbows are not accepted. **NO EXCEPTIONS.**

#### **Inspection port**

The complete moisture barrier/thermal liner system shall incorporate an inspection port to allow for visual inspection of the condition of the moisture barrier, seam sealing and

thermal liner.

**NO EXCEPTIONS.**

### **Thermal protection performance**

The complete garments outer shell, moisture barrier, and thermal liner, shall exhibit a TPP (thermal protective performance) of no less than 48 after 5 wash dry cycles.

### **Thermal heat loss**

The garments (coat and pant) thermal composite shall exhibit a Total Heat Loss of no less than 190 w/sq.m.

### **Retro-reflective trim**

Each garment shall have an adequate amount of retro-reflective fluorescent trim affixed to the outside of the outer shell to meet the requirements of NFPA 1971 (latest edition) and CAN/CGSB-155.1-M88 (latest addition).

The trim of each garment(s) (coat and pant) shall be 3 inch, 3M triple trim. **NO EXCEPTIONS.**

### **Closures**

The closure of the garments (pant and coat) shall meet the requirements of the CAN/CGSB-155.1-M88 (latest standard) and the NFPA 1971 (latest standard). Preference will be given to zipper and secured with hook and loop system.

### **Pockets**

The coat shall be constructed with two external cargo pockets with 2 drain holes to ensure drainage. The pocket flap must be a minimum depth of 3.5 inches. side pockets and a radio pocket.

A radio pocket must be provided on the left breast positioned so as not to interfere with the harness straps of the S.C.B.A.

**NO EXCEPTIONS**

The pants will incorporate 2 full bellows pockets approx. Drain holes must be provided to ensure adequate drainage. The pocket flap will be a minimum of 3.5ins. (8.75 cm.) The flap fastening will be by vertical hook and pile.

**NO EXCEPTIONS**

The pockets shall be reinforced with an extra layer of outer shell material. Neoprene reinforcements are not accepted.

### **Coat wristlets**

The coat will feature a knitted cuff not less than 4 inches in length, of inherently non-flammable material. The wristlet shall ensure that the wearer's wrist is fully protected when the arm is in the raised position.

### **Coat collar**

The coat collar must have a minimum height of 4" at the lowest point. The collar

composite must have the same radiant heat transmission resistance as the body of the coat. A closure strap to ensure complete protection of the throat must be provided.

### **Pant suspenders**

The pants must have field replaceable suspenders constructed of heavy duty material with low profile quick release snaps to the front and rear.

### **Enhancements and reinforcements**

The shoulders of the coat shall be reinforced with a layer of outer shell material. The cuffs of the garments (coat and pant) shall be reinforced with an outer shell material. The knee area of the pants shall be reinforced with a layer of outer shell material. The knees of the pants shall also have a removable comfort knee pad system incorporated in to the design.

### **Thread**

All thread used in the construction of the coat will be of equivalent high temperature resistance as the outer shell material.

### **Weight**

Overall weight of the garment (coat and pant) shall be a consideration during the selection process. Weight of the garment (coat and pant) shall be included in the specification process. (based on the average height/weight firefighter 44-46" jacket, 36-38" waist 30" inseam)

### **Repair facility**

Successful bidder will offer a repair service for this clothing, undertaking to repair clothing damaged for any reason within 10 working days of receipt of the garment.

### **Third party testing and listing program**

All components used in the construction of these garments shall be tested for compliance to NFPA 1971 (latest edition) by underwriters laboratories (UL). Underwriters laboratories shall certify and list compliance to that standard. Such certification shall be denoted by the Underwriters laboratories certification label.

### **Labels**

Warning labels shall be permanently affixed to each garment (coat and pant) the labels shall include:

- Compliance to NFPA 1971 (latest edition)
- Underwriters laboratories certification markings
- Manufacturers name
- Manufacturers address
- Garment identification/tracking number
- Date of manufacture
- Size
- Fabric content

**Certification**

All garments (coat and pant) shall be compliant to both the CAN/CGSB-155.1-M88 and NFPA 1971 (latest edition)

**Exceptions**

Any and all exceptions to the above specification shall be clearly documented and presented to the purchaser with the bid proposal.

**Warranty**

All warranty must be listed in tender.