

Request for Proposal

Project Title: Bunker Gear

Request #2019-05

April 24, 2019

Municipality of French River 44 St. Christophe Street, Suite 1 P.O. Box 156 Noëlville, ON, POM 2N0

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Confidentiality Statement

This document, and any attachments thereto, regardless of form or medium, is intended only for use by the addressee(s) and may contain legally privileged and/or confidential, copyrighted, trademarked, patented or otherwise restricted information viewable by the intended recipient only. If you are not the intended recipient of this document please respond to the originator of this message and permanently dispose any copies and any attachments.

Submission Details

Submission Deadlines and Methods

All submissions for responding to this request must be submitted to our office, as stated below, no later than:

Submissions accepted no later than – Wednesday May 8, 2019 @ 2:00pmSuccessful candidate will be notified within 30 days of the proposal closing date

The use of mail for delivery of proposal will be at the risk of the respondent. Submissions sent in electronic format will **not** be accepted.

Proposal must be submitted in a sealed envelope and shall be clearly marked with the following:
☐ The Name and Address of the Respondent
☐ The Request Number
☐ The Project Title

Administration staff will affix on the sealed envelope:

☐ Date and time of receipt

Submission Delivery Address, Submission Questions and Clarifications

You may contact the following lead person if you have any questions or require clarification on any topics covered in this Bid Solicitation. The delivery address to be used for all submissions is:

Fire Chief Roch Bigras

French River Fire Department Municipality of French River 44 St. Christophe Street, Suite 1 P.O. Box 156 Noëlville, ON, POM 2N0

Tel: 705-898-2294 Cell: 705-562-0559 Fax: 705-898-2181

Email: firechief@frenchriver.ca

Submission Opening

Proposal will be publicly opened, and recorded on **Wednesday May 8, 2019 2:05PM** at the Municipal Office. Staff will review the proposal and the successful candidate will be presented at the Regular Council Meeting of **May 15, 2019.**

Amendment and Withdrawal of Submission

Requests for withdrawal of a submission shall be allowed if the request is made before the closing time for the contract to which it applies. Requests shall be directed to the Lead person by letter or in person, by a Senior Official of the company, with a signed withdrawal confirming the details. Telephone requests shall not be considered. The withdrawal of a tender does not disqualify a bidder from submitting another tender on the same contract.

Addendums

The Municipality may, at its discretion, amend or supplement the documents for this request by addendum at any time prior to the closing date for receipt of Proposals. Changes to the request documents shall be made by <u>ADDENDUM ONLY</u>. Such changes made by addendum shall be supplementary to and an integral part of the request. All addendum must be signed and included in the final submission acknowledging all addenda issued by the Municipality. While the Municipality will endeavor to provide notification of the issuance of an addendum to prospective Proponents, the Municipality assumes no liability for the notification and it is the responsibility of each Proponent monitor and determine whether any addenda have been issued by the Municipality.

Introduction & Background

The Municipality of French River is a vibrant, welcoming and family-based community that is committed to positive, sustainable growth. A scenic environment, friendliness of neighbors, diversity of cultures and small Municipality feel make French River the community of choice to live, work, visit and vacation.

Detailed Specifications/Scope of Work

The Municipality of French River (herein after referred to as the Municipality) is requesting proposals for the purchase of Bunker Gear.

- The detailed specifications are attached in Schedule "B"
- Financial Components are attached in Schedule "A"

Assumptions & Constraints

The successful Proponent will ensure all services and products provided in respect to this proposal are in accordance with, and under authorization of all applicable authorities, municipal, provincial and/or federal legislation.

The successful Proponent and its employees may have access to information confidential to the Municipality. This information may include, but is not limited to, terms of this agreement, business methods and systems, contractual terms, pricing, personal information, etc. subject to disclosure by force of law, the successful Proponent agrees that it and its employees who have access to this information will not either during the term of the agreement or at any time thereafter reveal to any third party any of this confidential information or use in any way, whether on the successful Proponent's behalf or on behalf of any third party, any such information

The information, reports, documentation, plans, etc. that are a product of this award by the successful Proponent, will become the exclusive property of the Municipality of French River.

Terms and Conditions

Relating to the submission document:

Provincial and Federal Taxes (H.S.T.) - Tenders shall include applicable H.S.T. taxes. This tax shall
be shown separate from the unit price. The proponent shall include with the executed
documents, at the time of submission, on company letterhead, notification to the Municipality
of their H.S.T. Registration Number (if any)
Security deposit - equal to 10% of the value of the tender in the form of a certified
cheque, cash or Letter of Credit. This deposit will serve as a performance guarantee for
the duration of the contract and for all sections of the contract.
Costs, Deliverables & Timelines – as set out in Schedule A
Declaration - Signed declaration must be submitted (Page #8)
Other - Proponents may include any additional information regarding their firm and/or services
that may prove beneficial to the evaluation of the proposal. These would be provided in the
form of appendices.

Relating to the Successful Candidates:

- Notice of Acceptance Notice of acceptance may be made by fax or telephone, with written
 confirmation of same to follow, to the successful proponent at the number given by the
 proponent.
- Payment shall be made upon receipt of invoice following the receipt of the product (net 30 days) with completion of the work to the satisfaction of the Municipality. The security deposit will be released upon completion of any deficiencies and receipt of payment by the Municipality of French River of any late fees owing as per the contract clause above.
- **Servicing manuals** need to be provided with the final product.
- Price The Proponent shall abide by the total price stated in the submission document. No
 further payments beyond the contract amount will be made for any additional services required
 to provide a satisfactory deliverable. If additional requirements are requested by the
 Municipality beyond the original scope of work described in this Request, the cost of these
 services would be negotiated between the Municipality and the company that has been selected
 to perform the work. Any additional work will only be undertaken based on a request in writing
 from the Municipality of French River.
- Termination The Municipality reserves the right to immediately terminate the contract for sufficient cause, including but not limited to such items as non-performance, late deliveries, inferior quality, pricing problems, etc.
- Warrantee Details of the warrantee need to be provided to the Municipality before the install is commenced.
- **Public Record** Any personal information required on the proposal form is received under the authority of the Municipality. This information will be an integral component of the quote submission. All written proposals received by the Municipality become a public record; once a proposal is accepted by the Municipality, and a contract is signed, all information contained in it is available to the public including personal information.

Selection Criteria

A combination of quality, experience and price will determine the successful firm. More specifically:

- The Proponent's experience overall and particularly in relation to similar projects.
- The Proponent's project management experience in managing subcontractors and delivering a seamless product to the client.
- The quality of the proposal.
- The quality of the proposed product.
- The proven ability to stay within project budget and meet project completion target date.
- Any additional features or advantages uniquely proposed by the Proponent which the Municipality has not identified in the project deliverables or description.
- The Proponent's financial proposal

The Municipality of French River is not obligated to award the service contract to the lowest or any firm. The Municipality reserves the right to reject any or all proposals and to waive formalities as the interests of the Municipality may require without stating reasons. The Municipality will not be responsible for any liabilities, costs, expenses, loss or damage incurred, sustained or suffered by any Proponent by reason of the acceptance or the non-acceptance by the Municipality of any proposal or by reason of any delay in the acceptance of a proposal as well Any expenses incurred by the Proponent in the preparation of the proposal submission are entirely the responsibility of the Proponent and will not be charged to the Municipality.

Declaration

To: The Municipality of French River

Sirs: I/We the undersigned acknowledge receipt of and having carefully examined the Request and "Specifications" set forth in schedule "B" and hereby offer to submit this quote for the Compensation and Pay Equity Review in accordance with, and as required by the said documents at the price set forth in "Schedule "A" hereto.

I/We understand and accept that the prices set forth in this Quote Form include full compensation to furnish all labour, equipment, materials and supplies and transportation necessary or incidental to completing the work in strict accordance with said documents.

I/We understand that this Agreement terminates in the event that I fail to perform the work to the satisfaction of the Municipality.

I/We understand that the lowest or any quote will not necessarily be accepted and that TO BE CONSIDERED, Quote Forms must be in the Municipal Office by the Submission Deadlines and Methods.

GENERAL CONDITIONS

1. Notice of acceptance may be made by email, fax or telephone, with written confirmation of same to follow, to the respondent at the numbers given by the respondent.

Request #2019-05 Page | 9 Name and Address of the Respondent Phone: **Email:** Fax: The Respondent declares: • No person, firm or Municipality other than the Respondent, has any interest in this proposal or in the proposed services for this proposal; This proposal is made without any connection, comparison of figures or arrangements with or knowledge of any other Municipality, firm or person making a proposal for the same service and is in all respect fair and without collusion or fraud; No member of the staff of the Municipality of French River is, or will become interested directly or indirectly; as a contracting party, partner shareholder, surety or otherwise; or in the performance of the service; or in the supplies, service or business to which it relates; or in any portion of the profits thereof; or in any of the monies to be derived there from; • The content and requirements of this proposal document have been read and understood. All prices are quoted in Canadian funds. All or any proposals not necessarily accepted. Signed at ______ this ___ day of _____ 2019. Print Name - Witness Print – Respondent, Title - Respondent

Signature – Respondent

Signature - Witness

Schedule "A" - Financials

Bunker Gear Cost

	Unit Price	Total
Price for (1) Suit		
Shipping Cost		
Other (Multi purchase discounts)		
Subtotal:		
HST (13%)		
Total		
Other specifications not previously	noted:	

Schedule "B" - Specifications - Compliance (NFPA Standards)

** Please mark with a check if the specifications below are compliant with NFPA Standards **

SECTION 1 - GENERAL INFORMATION

SCOPE AND PURPOSE

The following specification describes the minimum requirements for the materials, design and construction of protective clothing ensembles, excluding head and hands, affording protection against the adverse hazards associated with Structural Firefighting activities and certain other emergency operations as defined by NFPA 1971, Standard on Protective Ensemble for Structural Fire Fighting, 2018

Edition.
COMPLIANT NON-COMPLIANT
THERMAL PROTECTIVE PERFORMANCE The garment composite, consisting of the outer shell, moisture barrier and thermal liner, shall provide a Thermal Protective Performance (TPP) of not less than 35 when tested in accordance with NFPA 1971 standard. This is a minimum requirement; no exceptions shall be considered.
COMPLIANT NON-COMPLIANT
TOTAL HEAT LOSS (THL) The garment composite, consisting of the outer shell, moisture barrier and thermal liner, shall provide a Total Heat Loss (THL) of not less than 205 when tested in accordance with NFPA 1971 standard. This is a minimum requirement; no exceptions shall be considered.
COMPLIANT NON-COMPLIANT
CONDICTIVE AND COMPRECIVE HEAT DECICTANCE (CCHP)
Using breathable materials as outlined in the section titled Breathable Materials, there shall be a minimum area of 4-inch x 4-inch (10.2 cm x 10.2 cm) at the shoulders that provide a minimum of 25 CCHR at 2 psi, and a minimum 6 inch x 6-inch (15.2 cm x 15.2 cm) area at the knees that provide 25 CCHR at 8 psi. All three compression areas shall be constructed of high temperature fiber-based materials and sewn to the thermal liner on the inside of the liner
CONDUCTIVE AND COMPRESSIVE HEAT RESISTANCE (CCHR) Using breathable materials as outlined in the section titled Breathable Materials, there shall be a minimum area of 4-inch x 4-inch (10.2 cm x 10.2 cm) at the shoulders that provide a minimum of 25 CCHR at 2 psi, and a minimum 6 inch x 6-inch (15.2 cm x 15.2 cm) area at the knees that provide 25 CCHR at 8 psi. All three compression areas shall be constructed of high temperature fiber-based materials and sewn to the thermal liner on the inside of the liner toward the moisture barrier. COMPLIANT NON-COMPLIANT
Using breathable materials as outlined in the section titled Breathable Materials, there shall be a minimum area of 4-inch x 4-inch (10.2 cm x 10.2 cm) at the shoulders that provide a minimum of 25 CCHR at 2 psi, and a minimum 6 inch x 6-inch (15.2 cm x 15.2 cm) area at the knees that provide 25 CCHR at 8 psi. All three compression areas shall be constructed of high temperature fiber-based materials and sewn to the thermal liner on the inside of the liner toward the moisture barrier.

ISO CERTIFICATION / REGISTRATION

The protective clothing manufacturer shall be certified and registered to ISO Standard 9001 to assure a satisfactory level of quality.

LABELING

• Each garment shall have a garment label(s) permanently and conspicuously attached stating at least the following language:

EXAMPLE

DO NOT REMOVE THIS LABEL
THIS GARMENT MEETS THE GARMENT REQUIREMENTS OF NFPA 1971,
STANDARD ON PROTECTIVE ENSEMBLE FOR
STRUCTURAL FIRE FIGHTING, 2018 EDITION

Additionally, the label(s) shall include the following information:

- Compliance to NFPA Standard #1971 2018 edition
- Underwriters Laboratories classified mark
- Manufacturer's name
- Manufacturer's address
- Manufacturer's garment identification number
- Bar Code
- Date of manufacture
- Size
- Fiber contents

COMPLIANT	NON-COMPLIANT

EXCEPTIONS TO SPECIFICATIONS

Any and all exceptions to the above specifications must be clearly stated for each heading. Use additional pages for exceptions, if necessary.

SECTION 2 - COMPONENTS

THREAD

Garment shall be assembled using only 100% NOMEX® Thread. This is a minimum requirement; no exceptions shall be considered.

All references to Velcro® (e.g. USA Velcro®) will be defined as Flame Resistant hook and loop Velcro and shall be and black in color. The use of aramid hook and loop Velcro shall not be permitted.

COMPLIANT _____ NON-COMPLIANT _____

OUTER SHELL MATERIAL

The outer shell shall be constructed of KEVLAR*/NOMEX* modified plain weave outer shell fabric reinforced with a network of yarns each containing KEVLAR filament and KEVLAR*/NOMEX* spun yarn in an "Enforce Technology" with an approximate weight of 6.9 oz. per square yard. The shell material must be treated with a durable water-repellent finish that also enhances abrasion resistance.

Outer shell color: TBD

COMPLIANT ____ NON-COMPLIANT ____

THERMAL LINER

The thermal liner shall be constructed of "one layer of 1.5 oz. and one layer of 2.3 oz. per square yard E-89 spunlaced NOMEX"/KEVLAR" aramid blend, quilt stitched to a 3.9 oz. per square yard Caldura" SL face cloth yarn combination of Lenzing/Kevlar/Nylon spun yarns and KEVLAR Filament, with a finished weight of approximately 7.7 oz. per square yard.

The thermal liner shall be attached to the moisture barrier at the perimeter of the liner system employing a self-binding.

COMPLIANT NON-COMPLIANT

MOISTURE BARRIER

The moisture barrier shall be ePTFE engineered using an E-89 substrate and BHA Technologies ePTFE membrane. The Stedair bi-component ePTFE membrane is a combination of microporous and monolithic technologies.

The moisture barrier material shall meet all moisture barrier requirements of NFPA 1971-2018 edition. All moisture barrier seams shall be sealed with a minimum 1-inch wide sealing tape. One side of the tape shall be coated with a heat activated glue adhesive. The adhesive side of the tape shall be oriented toward the moisture barrier seam. The adhesive shall be activated by heat and the sealing tape shall be applied to the moisture barrier seams by means of pressure exerted by rollers for that purpose.

COMPLIANT ____ NON-COMPLIANT ____

SECTION 3 - COAT DESIGN AND CONSTRUCTION

COAT CONSTRUCTION

The body of the shell shall be constructed of four separate body panels consisting of two front panels and one back panel and shall be joined together by double stitching with NOMEX* thread using stitch type #301, #401, and #516. The body panels shall be shaped to provide a tailored fit thereby enhancing mobility.

COMPLIANT _____ NON-COMPLIANT ____

TWO-TONE OPTION (OPTIONAL)

The coat outer shell will be constructed using specified base material and color listed above but in a Two-Tone configuration. The under-sleeve panel will be constructed using Black 6.9oz material.

COMPLIANT _____ NON-COMPLIANT _____

SIZING

The coats will be available in numeric sizing with 2-inch chest increments and 1" sleeve length measurements. The length of the coast will be measured from the rear collar and back to the hem of the coat and will be approximately 28-inches in the front and 34 inches at the rear hem.

Generalized sizing, such as small, medium, large, etc., will not be considered acceptable. All patterns will be graded to size to insure proper fit.

COMPLIANT _____ NON-COMPLIANT _____

LINER SYSTEM CONSTRUCTION

The thermal liner will be sewn to the moisture barrier at its perimeter with the breathable membrane oriented inward toward the thermal liner and away from the outer shell. The thermal liner and moisture barrier shall be stitched together and turned and top stitched to create a self-binding. The cuffs of the coat and pant liner system will have a binding of Stedprene on cotton poly to eliminate the possibility of wicking contaminants. The moisture barrier/thermal liner shall finish no more than 1-inch from the cuffs and 2-inch from the hem.

There will be an extra internal layer of thermal liner material sewn on the shoulder area of the liner system for increased protection and insulation. The extra layer will be sewn to the thermal liner layer only.

The coat liner system contains an internal pocket made of 1-layer of outer shell material and measures approximately 7-inches by 9-inches and is sewn on the left front panel.

COMPLIANT _____ NON-COMPLIANT _____

MOISTURE BARRIER / THERMAL LINER ATTACHMENT

The thermal liner and moisture barrier shall be completely removable from the coat shell. Strips of %-inch wide FR Velcro shall secure the thermal liner/moisture barrier to the outer shell along the length of the neck line under the collar (see Collar section). The loop portion of the Velcro shall be attached to the liner system with the hook fastener attached to the outer shell.

The remainder of the thermal liner/moisture barrier shall be secured with a minimum of five snap fasteners appropriately spaced on each coat facing and two snap fasteners at each sleeve end.

The thermal liner and moisture barrier shall be completely removable from the pant shell. Seven snap fasteners shall be spaced along the waistband to secure the thermal liner/moisture barrier to the shell. The legs of the thermal liner/moisture barrier shall be secured to the shell by means of two snap fasteners per leg.

COMPLIANT	NON-COMPLIANT

INSPECTION PORTAL (COAT)

The liner system will have an opening located at the rear bottom hem for the purpose of internal inspection. The opening will measure approximately 10-inches long and will be secured closed by corresponding 1-inch wide strips of FR Velcro installed on the liner system layers.

COMPLIANT	NON-COMPLIANT
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"EASY GRIP" DRAG RESCUE DEVICE (DRD)

A removable Firefighter Drag Rescue Device shall be installed in each coat. Two ends of a 1½-inch wide aramid strap will be sewn together to form a continuous loop. The strap will be installed in the coat between the liner system and outer shell such that when properly installed will loop around each arm. The strap will run through an access port located on the upper back of the coat and designed to fit between the shoulder straps of an SCBA.

A 3-inch by 4-inch (Home Plate) "Easy Grip" patch constructed of outer shell material will be attached to the strap on the outside of the coat. The "Easy Grip" patch will cover the access port and will secure to the outside of the coat by hook and loop Velcro. The "Easy Grip" patch will be covered with a reflective Lakeland logo patch for increased visibility to clearly identify the feature and will have the Lakeland symbol along with bold lettering: **DRD.**

COMPLIANT	NON-COMPLIANT

COLLAR AND THROAT TAB

The collar of the coat shall measure not less than three inches in height and will be graded to size. The collar will be a four-layer construction with two outside layers of outer shell material encapsulating two layers of moisture barrier. The rear internal layer of moisture barrier will be stitched at the perimeter of the collar only. The forward layer of moisture barrier shall be quilt stitched to the front outer shell layer of the collar to trap air and increase thermal insulation. The collar shall extend to the leading edges of the coat front body panels so that no gap occurs at the throat area.

A strip of 5/8 inch FR hook Velcro will be sewn to a 1-inch wide outer shell extension panel running the full length of the inside lower edge of the collar. It will be positioned to engage a corresponding piece of 5/8 inch FR loop Velcro along the neckline of the liner system.

The throat tab will be a four-layer construction with two layers of outer shell material encapsulating two center layers of moisture barrier material. The throat tab shall measure not less than 3-inches high by 10-inches long and will be of a scooped design for proper interface with an SCBA mask. The throat tab will be attached to the forward right front side of the collar. The throat tab will be secured in the closed and stowed position with FR hook and loop Velcro. A 1½-inch square piece of FR hook Velcro will be sewn to the inside of the end of the closure strap. A corresponding piece of FR loop Velcro measuring 1½-inches by 3-inches shall be sewn horizontally to the left outside leading edge of the collar, thereby providing a high degree of collar strap adjustment when wearing a breathing apparatus mask. In order to provide a means of storage for the closure strap when not in use, a 1½-inch square piece of FR loop Velcro will be sewn to the forward right front side of the collar immediately in front of the throat tab. The throat tab shall fold in half for storage.

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COMPLIANT	NON-COMPLIANT

PLEATED BACK

The back of the jackets will have two 2-inch outward facing vertical pleats sewn into the jacket outer shell. The pleats will extend from the top of the shoulder seam near the sleeves and will extend down the sides of the jacket. The pleat will taper from two inches in width at the top while narrowing to a point at the bottom end.

The liner will have two corresponding pleats on the back that will fall adjacent to the outer shell pleats to avoid bulk in the shoulder area. The shell and liner pleats will facilitate extended range of motion while reducing the likelihood of compression burns at the upper back and arm area of the coat.

COMPLIANT _____ NON-COMPLIANT _____

LINER SHOULDER THERMAL ENHANCEMENT

An additional layer of thermal liner material shall be used to increase thermal insulation in the shoulder area of the liner system. This thermal enhancement layer shall drape over the top of each shoulder extending from the collar to the sleeve/shoulder seam. The shoulder thermal enhancement layers shall be sandwiched between the thermal liner and moisture barrier layers of the liner system and shall be stitched to the thermal liner layer only.

COMPLIANT _____ NON-COMPLIANT _____

SLEEVES

The sleeves shall be of two-panel construction and set-in type configuration. The sleeves shall be ergonomically curved to follow the natural shape of the arm unlike straight, tubular sleeve configurations. An underarm expansion pleat shall be incorporated between the underside of the sleeve and the body of the coat and shall be used in all layers of the garment (shell, moisture barrier, and thermal liner) to provide for a high degree of uninhibited arm and shoulder movement.

COMPLIANT ____ NON-COMPLIANT ____

SLEEVE CUFF REINFORCEMENT

The sleeve cuffs shall be reinforced with black "Stedshield" material. The cuff reinforcements shall not be less than 2 inches in width and folded in half, approximately one half inside and one half outside the sleeve end for greater strength and abrasion resistance. The cuff reinforcement shall be double stitched to the sleeve end.

COMPLIANT ____ NON-COMPLIANT ____

WRISTLETS

Each coat shall be equipped with **Black 100% KEVLAR*** hand and wrist guards (over the hand) not less than 7-inches in length and of double thickness. A separate thumbhole with an approximate diameter of 2-inches shall be recessed approximately 1-inch from the leading edge. The thumbhole will have a turned finished edge.

COMPLIANT _____ NON-COMPLIANT _____

SLEEVE WELLS

The wristlets shall be sewn to flame resistant Black Stedprene coated cotton/polyester moisture barrier material, which in turn shall be sewn to the inside of the sleeve shell approximately five inches from the sleeve cuff. This sleeve well configuration serves to prevent water and other hazardous elements from entering the sleeves when the arms are

raised. The Stedprene moisture barrier material shall also line the inside of the sleeve shell from the cuff to a point approximately five inches up, where it joins the sleeve well and is double stitched to the shell. Two NOMEX® snap tabs will be sewn into the juncture of the sleeve well and wristlet. The tabs will be spaced equidistant from each other and shall be fitted with female snap fasteners to accommodate corresponding male snaps in the liner sleeves. This configuration will ensure there is no interruption in protection between the sleeve liner and wristlet.

COMPLIANT	NON-COMPLIANT

COAT FACINGS

The coat will incorporate separate facings to ensure there is no interruption in thermal or moisture protection in the front closure area. The facings shall measure approximately 3-inches wide, extend from collar to hem and be double stitched to the underside of the outer shell at the leading edges of the front body panels. A Breathable moisture barrier material shall be sewn to the coat facings and configured such that it is sandwiched between the coat facing and the inside of the respective body panel. The breathable film side shall face inward to protect it. The thermal liner and moisture barrier assembly shall be attached to the coat facings by means of snap fasteners.

COMPLIANT	NON-COMPLIANT

STORM FLAP

The storm flap will be centered over the left and rightside body panels to ensure there is no interruption in thermal or moisture protection. The storm flap will consist of 2-layers of moisture barrier sandwiched between 2-layers of outer shell material measuring approximately 23.75-inches by 4.25-inches wide. The storm flap is sewn onto the left panel of the coat and positioned within 0.5-inch of the collar attachment seam to prevent leakage.

COMPLIANT	NON-COMPLIANT

NAPOLEON POCKET

Under the storm flap in the upper chest area will be a slit style pocket (Napoleon pocket) located under the left front body panel. The pocket opening shall measure approximately 5-inches long. The inside pocket shall measure approximately 5-inches by 8-inches. The pocket shall be located between the outer shell and the liner system.

COMPLIANT	NON-COMPLIANT

DRAW CORD

The jacket will be equipped with a "Draw-Cord" on the inside rear of the outer shell. A 1-inch wide layer of outer shell material will be sewn to the inside rear jacket panel from side seam to side seam, just above the pockets, to create a tunnel for the Draw-Cord. The Draw-Cord will be constructed of KEVLAR cording. The Draw-Cord locking "Barrel" mechanism will be constructed of NFPA compliant High Temp polymer.

The employment of the Draw-Cord will gather the extra bulk of the outer shell around the torso to rear of the jacket so the front will remain flat for improved access to pockets. This will prevent bunching of the excess material at that the front of the jacket when donning and securing an SCBA strap.

COMPLIANT	NON-COMPLIANT

STORM FLAP AND COAT FRONT CLOSURE SYSTEM

The coat shall be closed by means of (zipper and Velcro) a 22-inch size #10 heavy duty high-temp polymer zipper on the coat fronts and FR Velcro on the storm flap. The teeth of the zipper shall be mounted on NOMEX® cloth and shall be sewn into the respective coat facings. The storm flap shall close over the left and right coat body panels and shall be secured with FR Velcro. A 1½-inch by 24-inch piece of FR loop Velcro shall be installed along the underside leading

edge of the storm flap. A corresponding 1½-inch by 23-inch piece of FR hook Velcro shall be sewn to the front body panel and positioned to engage the loop Velcro when the storm flap is closed over the front of the coat.

COMPLIANT NON-COMPLIANT

BELLOWS/HANDWARMER

Each coat will be equipped with Bellows/Handwarmer pockets on the left side and right side of the front of the coat. The pockets shall be located at the bottom of the coat near the storm flap and be double stitched to the respective body panels. Retro-reflective trim shall run over the bottom of the pockets so as not to interrupt the trim stripe. Two rust resistant metal drain eyelets shall be installed in the bottom of each expansion pocket to facilitate drainage of water. The lower half of the bellows pocket will be reinforced with an extra layer of KEVLAR Twill material on the inside. The pockets shall measure 2-inch deep by 8-inch wide by 8-inch high. The bellows portion of the pocket will be accessed from the top.

The pocket flaps will be constructed of two layers of outer shell material and shall measure 5-inches deep and ½-inch wider than the pocket. Two pieces of 1½-inch by 3-inch FR Velcro will secure each flap in the closed position. The Velcro on the flap will be oriented in a vertical position while the Velcro on the pocket will be oriented horizontally allowing for the flap to be secured when the pocket is fully expanded. The upper pocket corners and pocket flaps shall be reinforced with bartacks.

Additionally, a separate hand warmer pocket compartment will be provided <u>under</u> the expandable cargo pocket. This compartment will be accessed from the rear of the pocket.

COMPLIANT	NON-COMPLIANT	

POCKET PULL-TABS

Every pocket on the garment shall be equipped with Pocket Pull-Tabs constructed of a double layer of outer shell material. The Pull-Tabs shall measure approximately .75 x1.5-inches and located at the bottom center of the pocket flaps to facilitate opening or pulling up the pocket flap.

COMPLIANT	NON-COMPLIANT

UNIVERSAL FLASHLIGHT HOLDER

Each jacket shall be equipped with an inward facing safety hook/coat snap and two specially configured straps to hold a flashlight. The inward facing safety hook/coat snap shall be attached to the upper chest in a vertical position. The inward facing snap hook will accommodate the top metal ring portion of the flashlight. A Self-Material strap measuring approximately 1-inch high and 2-inches wide, shall sit below the snap hook/coat snap and will accommodate the clip portion of the flashlight. The lower strap shall measure approximately 2½-inches high and 9 inches wide and will hold the barrel of the flashlight. The lower strap will be equipped with a 1½-inch by 2½-inch flame resistant hook and loop closure at the front of the strap to facilitate easy removal of the flashlight. The Universal Flashlight Holder shall be sewn to the jacket on the right chest.

COMPLIANT	NON-COMPLIANT

RADIO POCKET with VELCRO ANTENNA OPENINGS

Each coat shall have a pocket designed for the storage of a portable radio. This pocket shall be of box type construction, double stitched to the coat, and shall have one drainage eyelet in the bottom of the pocket. The pocket flap shall be constructed of 2-layers of outer shell material measuring approximately 5-inches deep and %-inch wider than the pocket. The top of the flap shall be stitched to the coat with a 1.5-inch stitch only in the center of the flap leaving approximately 1-inch unsecured on each side. Those portions of the flap shall be secured in place with %-inch Velcro. The Velcro on the flap can easily be unsecured to accommodate an antenna. The pocket flap shall be closed by

means of FR Velcro. A 1½-inch by 3-inch piece of FR hook Velcro shall be installed vertically on the inside of the pocket flap beginning at the center of the bottom of the flap. A 1½-inch by 3-inch piece of FR loop Velcro shall be installed horizontally on the outside of the pocket near the top center and positioned to engage the hook Velcro. In addition, the entire inside of the pocket shall be lined with Stedprene coated cotton/polyester moisture barrier material to ensure that the radio is protected from the elements. The moisture barrier material shall also be sandwiched between the two layers of outer shell material in the pocket flap for added protection. The radio pocket shall measure approximately 2-inches deep by 3.5-inches wide by 8-inches high and shall be installed on the left chest.

COMPLIANT NON-COMPLIANT
MICROPHONE STRAP A strap shall be constructed to hold a microphone for a portable radio. It shall be sewn to the coat at the ends only. The microphone strap shall be mounted above the radio pocket and shall be constructed of double layer outer shell material.
COMPLIANT NON-COMPLIANT
RETROREFLECTIVE FLUORESCENT TRIM AND PATTERNS The retroreflective fluorescent trim shall consist of 3-inch lime/yellow 3M Triple Trim (L/Y borders with silver center).
Each coat shall have retroreflective fluorescent trim double stitched to the outside of the outer shell to meet the requirements of NFPA #1971 (2018 edition) and OSHA. The trim pattern shall be:
COMPLIANT NON-COMPLIANT
NYC STYLE
 3-inch wide stripes: around each sleeve at the cuff and above the elbows (the upper sleeve stripe will have an underlayment thermal reinforcement layer of Stedprene on cotton poly for protection against Stored Energy burns) around the hem of the entire coat horizontally across the chest and around the back below the sleeves.
COMPLIANT NON-COMPLIANT
"LAZER" TRIM COAT The coat shall be equipped with Silver Reflective piping for enhanced visibility. The piping will be constructed of NFPA compliant Silver Scotchlite Reflective material wrapped around a NOMEX Cording. The "Lazer" trim shall be sewn into the outside sleeve seam full length and around then entire arm-hole where the sleeve joins the body of the coat.

COMPLIANT _____ NON-COMPLIANT _____

SECTION 4 - Pant Design and Construction

PANT CONSTRUCTION

The body of the shell shall be constructed of four separate body panels consisting of two front panels and two back panels and graded to size. The body panels shall be shaped so as to provide a tailored fit, thereby enhancing body movement, and will be joined together by double stitching with NOMEX* thread.

The body of the shell shall be constructed of six separate body panels consisting of two front panels, two back panels and two lower leg panels all graded to size. The body panels shall be shaped so as to provide a tailored fit.

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	COMPLIANT	NON-COMPLIANT
ONE-PIECE LOVER LEG PA	ANEL	
The lower leg panels shall be of one seam and will be joined together seam abrasion at the cuff of the	one-piece design and wrap r by double stitching with N pants, thereby enhancing r	around the lower leg terminating at a rear. The lower leg IOMEX® thread. This rear seam design will eliminate side mobility and performance. The use of "patch" to cover the d will be deemed inappropriate and in conflict with NFPA
	COMPLIANT	NON-COMPLIANT
TWO-TONE OPTION (OPT	'IONAL)	
The pant outer shell will be con	structed using specified b	ase material and color listed above but in a Two-Tone ing Black 6.9oz PIONEER material.
	COMPLIANT	NON-COMPLIANT
SIZING		
The Pants shall be available in e	even size waist and inseam	measurements of 2-inch increments. Generalized sizing,
such as small, medium, large, e	tc., will not be considered	acceptable.
	COMPLIANT	NON-COMPLIANT
LINER SYSTEM CONSTRU	CTION	
toward the thermal liner and aw	ay from the outer shell. Th	perimeter with the breathable membrane oriented inward he thermal liner and moisture barrier shall be stitched ng along the waist. The cuffs of the pant liner will be bound
=		to avoid wicking of contaminants.
	COMPLIANT	NON-COMPLIANT
MOISTURE BARRIER / TH	IERMAL LINER ATTA	CHMENT
The thermal liner and moisture b	parrier shall be completely	removable from the pant shell. Seven snap fasteners shall
· -		moisture barrier to the shell. The legs of the thermal is of two snap fasteners per leg located at the side seams.
	COMPLIANT	NON-COMPLIANT

INSPECTION PORTAL (PANT)

The liner system will have an opening located at the top rear hem of the pant for the purpose of internal inspection. The opening will measure approximately 10 inches long and will be secured closed by corresponding 1-inch wide strips of FR Velcro installed on the liner system layers.

COMPLIANT	NON-COMPLIANT

BLACK-OPS SUSPENDER SYSTEM

The pants will be equipped with four horizontal type belt loops at the inside upper waist for attaching the suspenders. Two in the front, one each side, and two in the back, one each side. The horizontal belt loops will be constructed of ½-inch wide NOMEX Twill tape. The two front horizontal loops will be approximately four inches in length and bar-tacked in 1-inch increments, creating a series of one-inch wide loops. The rear horizontal belt loops will be three inches in length and stitched the same.

The series of loops will provide adjustment of the suspenders from side to side along the waist of the pants for increased comfort and performance.

The Black-Ops Suspenders will be ergonomic in design. The main one-piece body of the suspenders will be padded and 2.5-inches in width over the top of the shoulders. This creates a wider contact surface on the shoulder dispersing the weight over more area increasing comfort and support.

The rear straps of the suspenders will be adjustable to fit a wide range of torso lengths. The front suspender straps will be equipped with pull-tabs for final adjustment.

The front ends of the suspender body will be equipped with vertical mic straps/thumb loops.

The front of the suspenders will have a horizontal adjustable strap clip. The strap will act as a deterrent to keep the suspenders from slipping off the shoulders. The adjustable clip shall be located on the top of the left side suspender body so that it is padded against the chest. The strap will be attached to the edges of the right side suspender body to form a mic strap. The horizontal strap can be stored under the vertical mic straps on each side.

The ends of the suspender will be double layer elastic for comfort and flexibility. The suspender attachments will be one inch wide by 4-inch long straps with a snap fastener attached to the end. The straps will run through the horizontal belt loops on the pant and attachment to themselves with the snap fasteners. There will be two snap straps on each suspender ends.

COMPLIANT	NON-COMPLIANT

WAISTBAND

The waist area of the Pants shall be reinforced on the inside with a separate piece of black NOMEX outer shell material not less than two inches in width. The top of the thermal liner and moisture barrier shall be secured to the underside of the waistband reinforcement so as to be sandwiched between the waistband reinforcement and outer shell to reduce the possibility of liner detachment while donning and to avoid pass through of snaps from the outer shell to the inner liner.

COMPLIANT	NON-COMPLIANT

PANT CLOSURE SYSTEM

The exterior primary positive locking closure shall be a 2-inch wide Black KEVLAR Webbing Belt with high temperature thermoplastic buckle.

The internal fly flap closure shall consist of 1½-inch wide by full-length FR Velcro. The FR loop Velcro shall be sewn to the inside of the leading edge of the external fly flap. The corresponding portion of FR hook Velcro will be sewn to the right front body panel positioned to engage the loop portion when the external fly flap is in the closed position.

A snap fastener will be installed at the leading edge of the waistband for the purpose of further securing the Pants in the closed position.

COMPLIANT	NON-COMPLIANT	

KEVLAR BELT / BELT LOOPS

Each Pant will be provided with a belt measuring 2-inches in width and, constructed of KEVLAR* webbing material. The end of each belt shall be equipped with high temperature thermoplastic buckles for ease of attachment and adjustment. When the belt is ordered it will take the place of any specified Snap Hook and Dee-Ring as the positive closure.

The Pants shall be equipped with a series of belt loops constructed of a double layer of outer shell material and spaced around the waist to accommodate the KEVLAR® belt. The front two belt loops shall be and will be of a 2-piece design – top and bottom. The top and bottom of each loop will attach to each other with snap fasteners and flame-resistant hook & loop Velcro sewn to ends

The pant shall also have two Pant Handle/Belt loops on each side, constructed of 1-inch Black NOMEX Twill tape and shall be located over the sides seams of the pant. On each side of the pant, two of the belt loops will extend above the waist of the garment and will be configured to form a "handle". The handle(s) will facilitate ease of donning and doffing.

ON-COMPLIANT
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EXTERNAL FLY FLAP

The fly flap will consist of a layer of thermal liner and moisture barrier material sandwiched between 2-layers of outer shell material. The fly will measure measuring approx. 9.5-inches long by 3.75-inches wide and will be double stitched to the left front body panel and centered over the pant opening. A snap fastener will be located at the top of the fly to assist in the closure.

COMPLIANT	NON-COMPLIANT

POCKET PULL-TABS

Every pocket on the garment shall be equipped with Pocket Pull-Tabs constructed of a double layer of outer shell material. The Pull-Tabs shall measure approximately .75 x1.5-inches and located at the bottom center of the pocket flaps to facilitate opening or pulling up the pocket flap.

COMPLIANT	NON-COMPLIANT
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BELLOWS POCKETS

Each pant will have two angled expansion pockets. The pockets will measure 2-inch deep by 10-inch wide by 10-inch high. The bellows pockets shall be double stitched to outside hip area of the pant. Two rust resistant metal drain eyelets shall be installed in the bottom of each bellows pocket to facilitate drainage of water. The lower half of the pocket shall be reinforced with an extra layer of KEVLAR Twill material on the inside.

The pocket flaps will be constructed of two layers of outer shell material, and shall measure 5-inches deep and ½-inch wider than the pocket. Two pieces of 1½-inch by 3-inch FR Velcro Velcro shall secure each flap in the closed position.

The Velcro on the flap will be oriented in a vertical position while the Velcro on the pocket will be oriented horizontally
allowing for the flap to be secured when the pocket is fully expanded. The upper pocket corners and pocket flaps shall
he reinforced with hartacks

be reinforced with bartacks.		
СОМ	PLIANT	NON-COMPLIANT
Two 2-inch pleats, will be located, or above the knee will be fully function	ne each side, along th al, not like the knee p	nee reinforcement to provide a greater range of motion. ne front leg panels at the top of the knee area. The pleats pleat designs that fully and permanently employ each
knee pleat, under the knee reinforce	ments, creating bulk	and mass.
The liner knee shall also employ the the knee to work in concert with the		ut off-set to the shell pleat and located at the center of
сом	PLIANT	NON-COMPLIANT
edge and placed on the center of the The knee reinforcements shall measu	th black "Stedshield" e knee area to insure ure approximately 11 the outside leg seams	material. The knee reinforcement shall have a top radius proper coverage when bending, kneeling and crawlinginches wide by 12-inches high and shall have an s. The reinforcements will be double stitched to the ength and abrasion resistance.
СОМ	PLIANT	NON-COMPLIANT
material. The two layers material wil	comfort the knees will I be boxed stitched to	Il be padded with two extra layers of thermal liner of the outer shell knees to prevent migration of the utside reinforcement layer of the knees.
СОМ	PLIANT	NON-COMPLIANT
less than 2-inches in width and folde leg openings. The cuff reinforcement approximately 1-inch long shall be at from the bottom of the Pant leg. Sna	inforced with black " d in half for approxin : shall be double stitc :tached to the inside p fasteners will be in	Stedshield" material. The cuff reinforcement shall not be nately 1-inch exposure on the inside and outside of the thed to the outer shell. Two NOMEX® snap tabs measuring of each leg of the outer shell approximately three inches estalled at the end of each tab and at the bottom of the fithe cuff to secure the liner to the shell.
СОМ	PLIANT	NON-COMPLIANT
BOOT CUT The Pant leg cuffs will be constructed		of the leg falls higher than the front to avoid the chance of

COMPLIANT _____ NON-COMPLIANT _____

RETROREFLECTIVE FLUORESCENT TRIM

The Pants shall have a stripe of retroreflective fluorescent trim encircling each leg below the knee to comply with the requirements of NFPA #1971 (2018 revision) in 3-inch lime/yellow 3M Triple Trim (L/Y borders with silver center)

center).			
	COMPLIANT	NON-COMPLIANT	
"LAZER" TRIM P	ANT		
compliant Silver Scot	tchlite Reflective material wrapped ar	or enhanced visibility. The piping will be constround a NOMEX Cording. The "Lazer" trim shant leg panel to the main body of the pants.	
	COMPLIANT	NON-COMPLIANT	