REQUEST FOR PROPOSAL

RFP-22-04-01

SUPPLY OF STRUCTUAL FIREFIGHTING BUNKER GEAR



Closing Date 1pm April 29, 2022

Municipality of Arran-Elderslie

1925 Bruce Rd. 10

Chesley, Ontario

N0G 1L0

Submission Details

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

Submissions accepted no later than - 1pm April 29th

Successful candidate will be notified.

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.

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 anytopics covered in this Bid Solicitation. The delivery address to be used for all submissions is:
Attention Fire Chief Steve Tiernan
Arran-Elderslie Municipal Office
1925 Bruce Rd. 10
Chesley, Ontario, N0G 1L0

Submission Opening

519-363-3039 ext. 112

Proposal will be publicly opened, and recorded on April 29th 2022 at 2pm at the Municipal Office. Staff will review the proposal and the successful candidate will be presented at the Regular Council Meeting.

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 thefinal 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.

Detailed Specifications/Scope of Work

The Municipality of Arran-Elderslie (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 and Constraints

The successful Proponent will ensure all services and products provided in respect to this proposal are inaccordance 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'sbehalf 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 Arran-Elderslie.

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)
- □ Costs, Deliverables & Timelines as set out in Schedule A
- □ **Declaration** Signed declaration must be submitted. (attached)
- □ **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 theform 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 Arran-Elderslie 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 Arran-Elderslie.
- **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 aseamless 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 Arran-Elderslie 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.

To: The Municipality of Arran-Elderslie

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.

Signed at	this	day of	:	2022
oignou at		aa, c.		-0

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.

Schedule "A"

ame and Address of th	ne Respondent	
Phone:	Fax:	Email:
 in this proposal arrangements making a proposal collusion or frequency with the supplies, so profits the content are understood. This proposal arrangements making a proposal proposal proposal arrangements making a proposal propo	m or Municipality other than the or in the proposed services is made without any connection with or knowledge of any other posal for the same service and raud; If the staff of the Municipality of ested directly or indirectly; as a surety or otherwise; or in the poservice or business to which it if; or in any of the monies to be and requirements of this proposition.	on, comparison of figures or er Municipality, firm or person lis in all respect fair and without of Arran-Elderslie is, or will contracting party, partner performance of the service; or in relates; or in any portion of the
Signed at	this_ day	/ of2022.
Print Name - Witness	Print - Resp	
		ndent

Bunker Gear Cost

	Unit Price	Total
Price for (19) Suit		
Shipping Cost		
Other {Multi purchase discounts)		
Subtotal:		
HST {13%)		
Total		

Schedule "B" - Specifications for Compliance (NFPA)

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

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

emergency operations as defined by NFPA 1971, <i>Standard on Protective Ensemble for Structural Fire Fighting,</i> 2018 Edition
COMPLIANT NON-COMPLIANCE
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.
COMPLIANTNON-COMPLIANCE
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-COMPLIANCE
Third Party Testing
All components used in the construction of these garments shall be tested for compliance to NFPA Standard #1971 2018 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.
COMPLIANT NON-COMPLIANCE

ISO Certification/Registration

The protective clothing manufacturer shall be certified and registered to ISO Standard 9001 to assure a satisfactory level of quality.
COMPLIANT NON-COMPLIANCE
Labeling
Each garment shall have a garment label(s) permanently and conspicuously attached stating at least the following language:
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 Firefighters name attached to inner and outer garments.
COMPLIANT NON-COMPLIANCE
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.
Hook and Loop (Velcro)
All references to 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-COMPLIANCE

The outer shell shall be constructed of Pioneer or Equivalent with material weight 6.6 oz per square yard. The shell material must be treated with a durable water-repellent finish that also enhances abrasion resistance. Outer shell color: Black
COMPLIANT NON-COMPLIANCE
Thermal Liner
The thermal liner shall be constructed of Defender M NP or Equivalent Face Cloth: Lenzing FR Rayon/Para aramid/Nylon (Spun Yarn) Plain weave Batting: 1 layer of Aramid Neddle punched with a finished weight of approximately 7.0 oz. per square yard. Colour Brass
The thermal liner shall be attached to the moisture barrier at the perimeter of the liner system employing a self- binding.
COMPLIANT NON-COMPLIANCE
Moisture Barrier
The moisture barrier shall be the STEDAIR 3000 or Equivalent
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-COMPLIANCE
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. The body panels shall be shaped to provide a tailored fit thereby enhancing mobility.
COMPLIANTNON-COMPLIANCE
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

In person sizing will be completed at the fire station.
COMPLIANT NON-COMPLIANCE
Linear 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 Neoprene on cotton poly to eliminate the possibility of wicking contaminants. The moisture barrier/thermal liner shall finish no more than 1" from the cuffs and 2" 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. A Pencil Slop approximately 1.5" wide shall be stitched vertically on one side of the liner pocket.
COMPLIANT NON-COMPLIANCE
Moisture Barrier/Thermal Barrier Attachment
The thermal liner and moisture barrier shall be completely removable from the coat shell. Strips of $\frac{1}{2}$ 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-COMPLIANCE
Drag Rescue Device (DRD)

patterns will be graded to size to insure proper fit.

A removable Firefighter Drag Rescue Device shall be installed in each coat. Two ends of a $1\frac{1}{2}$ 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 three inch by four 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-COMPLIANCE
OOMI LIANT	

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 one 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.

A hanger loop constructed of a double layer of outer shell material will be located at the top rear of the collar.

COMPLIANTN	NON-COMPLIANCE
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Pleated Back

The back of the jackets will have two 2" 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 out 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-COMPLIANCE
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-COMPLIANCE
Shoulder Reinforcement
The tops of the shoulders (front yoke) of the outer shell shall be reinforced on the outside with Arashield material or Equivalent. The additional shoulder reinforcement layer shall also serve to increase thermal insulation to the shoulder area. The reinforcements shall be double stitched to the shell and shall measure approximately 4 inches wide near the collar and approximately 6 inches wide at the juncture of the sleeve and body panels.
COMPLIANT NON-COMPLIANCE
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 gusset 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. The underarm gusset shall measure approximately 6 inches wide by 20 inches long (all layers) and graded to size.
COMPLIANTNON-COMPLIANCE

Elbow Reinforcements

The elbows of the outer shell sleeves shall be reinforced with Arashield material or Equivalent. The elbow reinforcement shall be double stitched to the sleeve elbow areas. The reinforcements will have an extra layer of Neoprene coated cotton poly moisture resistant material sewn underneath for extra thermal protection. The overall dimensions of the elbow reinforcements shall measure approximately 6 inches wide and 8 inches high.

COMPL	ANT	NON-COMF	LIANCE
Sleeve Cuff Reinforcement			
The sleeve cuffs shall be reinforce shall not be less than 2 inches in whalf outside the sleeve end for greshall be double stitched to the sle	vidth and folded i eater strength and	in half, approximat	ely one half inside and one
COMPL	ANT	NON-COMF	LIANCE
Wristlets			
Each coat shall be equipped with inches in length and of double thic the end of the cuff to create a Thu	kness. A ½" Blac		
COMPL	ANT	NON-COMF	LIANCE
Sleeve Wells			

The wristlets shall be sewn to flame resistant neoprene 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 neoprene 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.

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

Storm Flap and Front Closure System
COMPLIANT NON-COMPLIANCE
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.
The jacket will be equipped with a "Draw-Cord" on the inside rear of the outer shell. A 1" 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.
Draw Cord
COMPLIANT NON-COMPLIANCE
Chest Pocket Under the storm flap in the upper chest area will be a slit style 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-COMPLIANCE
The storm flap will be centered over the left and right side body panels to ensure there is no interruption in thermal or moisture protection. The storm flap will consists of 2 layers of moisture barrier sandwiched between 2 layers of outer shell material measuring approx. 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.
Storm Flap
COMPLIANT NON-COMPLIANCE
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.

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

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 $^{\circ}$ 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 $1\frac{1}{2}$

HOHE OF THE COAL	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-COMPLIANCE

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 inside of the bellows pocket will be fully reinforced with an extra layer of KEVLAR Twill material on the front, back, bottom and sides. 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 lined with Q8.

COMPLIANT	NON-COMPLIANCE

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-COMPLIANCE

Flashlight Snap and Strap

Each coat shall be equipped with a flashlight snap and strap. An 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 clip portion of the flashlight. Below the snap hook will be a strap constructed of outer shell material to wrap around the barrel of a flashlight. The strap will have FR Velcro sewn to the ends to secure to itself. There will be approximately 4 inches between the upper snap hook and lower strap. The flashlight snap and strap will be sewn to the coat on the right chest.

COMPLIANT	NON-COMPLIANCE
	11011 00111 211 1102

Radio Pocket

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 two layers of outer shell material measuring approximately 5 inches deep and ¼ inch wider than the pocket. The pocket flap shall be closed by means of FR Velcro. With a Velcro Antenna Opening on each side of Flap for the 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 neoprene 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.

COMPLIA	NT	NON-COMPLIAN	ICE
Microphone Strap			
A strap shall be constructed to hold coat at the ends only. The micropho be constructed of double layer outer	ne strap shall b	e mounted above the ra	
COMPLIA	.NT	NON-COMPLIAN	ICE
Dee Ring			
A dee-ring shall be riveted to the coat in a vertical position through the outer shell. The rivets will be reinforced with die-cut leather washers under the outer shell. The dee-ring will be located on the lower storm flap, centered.			
COMPLIAI	NT _	NON-COMPLIAI	NCE

Retroreflective Fluorescent Trim and Patterns

The retroreflective fluorescent trim shall be lime/yellow ScotchliteTriple Trim (L/Y borders with silver center) Segmented Comfort Trim. Each coat shall have retroreflective fluorescent trim sewn to the outside of the outer shell to meet the requirements of NFPA #1971 (2018 edition) and OSHA. The trim pattern shall be:

underlayment ther	e at the cuff and above the mal reinforcement layer of ns) around the hem of the	e elbows (the upper sleeve stripe will have an neoprene on cotton poly for protection against entire coat horizontally across the chest and around
	COMPLIANT	NON-COMPLIANCE
Lazer Trim Coat		
be constructed of I NOMEX Cording.	NFPA compliant Silver Sco The "Lazer" trim shall be so	ctive piping for enhanced visibility. The piping will obtain the Reflective material wrapped around a sewn into the outside sleeve seam full length and rejoins the body of the coat.
	COMPLIANT	NON-COMPLIANCE
Sewn on Reflectiv	e Lettering	
layer of outer shell r the jacket for a finis	material. The "Tail" Letter	Tail Letter Patch shall be constructed of a double Patch will be contoured to follow the curved hem of ch will attach to the lower rear hem of the coat with ull adhesion.
	COMPLIANT	NON-COMPLIANCE
Pant Construction	ı	
panels and two bac	k panels and graded to size , thereby enhancing body	our separate body panels consisting of two front e. The body panels shall be shaped so as to movement, and will be joined together by double
	COMPLIANT	NON-COMPLIANCE
One Piece Lover L	∟eg Panels	
rear. The lower leg This rear seam desi enhancing mobility a	seam and will be joined too gn will eliminate side seam and performance. The use ference trim band will be d	sign and wrap around the lower leg terminating at a gether by double stitching with NOMEX® thread. In abrasion at the cuff of the pants, thereby of "patch" to cover the side seams, essentially leemed inappropriate and in conflict with NFPA
	COMPLIANT	NON-COMPLIANCE

Pant	
Will be constructed with an elastic water wells.	
COMPLIANT NO	ON-COMPLIANCE
Sizing	
The Pants shall be available in even size waist and insear increments. Generalized sizing, such as small, medium, la acceptable.	
Sizing will be in person at the fire station.	
COMPLIANTNO	ON-COMPLIANCE
Liner System Construction	
The thermal liner will be sewn to the moisture barrier at its p oriented inward toward the thermal liner and away from the moisture barrier shall be stitched together and turned and t along the waist. The cuffs of the pant liner will be bound wit resistant material to avoid wicking of contaminants.	outer shell. The thermal liner and op stitched to create a self- binding
COMPLIANT NO	ON-COMPLIANCE
Moisture Barrier/Thermal Liner Attachment	
The thermal liner and moisture barrier shall be completely resnap fasteners shall be spaced along the waistband to sect to the shell. The legs of the thermal liner/moisture barrier shof two snap fasteners per leg located at the side seams.	ure the thermal liner/moisture barrier
COMPLIANTNO	ON-COMPLIANCE
Suspender System	
Suspenders will be ergonomic in design. The main one-piece	

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.

cc	MPLIANT		NON-COMPLIANCE	
Waistband				
NOMEX outer shell material moisture barrier shall be sed sandwiched between the wa	not less than two inch cured to the underside iistband reinforcemen	hes in e of the t and e	nside with a separate piece of blac width. The top of the thermal line e waistband reinforcement so as t outer shell to reduce the possibility gh of snaps from the outer shell to	r and to be y of
cc	MPLIANT		NON-COMPLIANCE	
Pant Closure System				
The exterior primary positive locking closure shall be a 2" wide Black NOMEX or KEVLAR Webbing Belt with high temperature thermoplastic buckle.				
The internal fly flap closure shall consist of 1½ inch wide by full-length FR Velcro and a heavy-duty zipper. One half of the zipper shall be sewn to the inside of the leading edge of the external fly flap. The corresponding zipper half shall be sewn the right front body panel and shall be positioned to engage the zipper half on the fly flap. The top of each zipper half shall be further reinforced with a bartack.				
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.				
cc	MPLIANT		NON-COMPLIANCE	

Kevlar Belt/Belt Loops

Each Pant will be provided with a belt measuring 2 inches in width and, constructed of NOMEX or KEVLAR® webbing material. The end of each belt shall be equipped with high temperature thermoplastic buckles for ease of attachment and adjustment. The belt will act as the positive closure for the pant.

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 NOMEX or 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" 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.			
	COMPLIANT	NON-COMPLIANCE	
External Fly Flap			
between 2 layers of long by 3.75 inches	outer shell material. The wide and will be double	iner and moisture barrier material sandwiched e fly will measure measuring approx. 9.5 inches stitched to the left front body panel and centered be located at the top of the fly to assist in the	
	COMPLIANT	NON-COMPLIANCE	
Take Up Straps			
slide will be position shall be comprised to the high-temp the and extend toward t the slide on the rear as the pull-tab. The	ned on the outside of the of two sub-component stermoplastic slide. The frosthe front of the pant. The strap component and expressions.	e black NOMEX twill and high temp thermoplastic garment; one on each side. Each take up strap raps. The rear portion of the strap will be attached int strap component shall run through the slide front strap component shall be inserted through stend toward the front of the pant where it will act the front to tighten. This shall allow for rap (8 inches overall).	
	COMPLIANT	NON-COMPLIANCE	
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-COMPLIANCE	

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 at the rear and 8" high in the front. 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 inside of the pocket shall be fully reinforced with an extra layer of KEVLAR Twill material on the front, back, bottom and sides.

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 be reinforced with bartacks.

Additionally, the right side pocket shell be equipped with a divider constructed of self-material. The divider will be stitched vertically and centered splitting the pocket into two compartments. With a 2 Pak Internal Tool Pocket of Kevlar Twill on left and right pocket.

COMPLIANT NON-COMPLIANCE
Pleated Knees
The pants will have horizontal pleats located above the knee reinforcement to provide a greater range of motion. Two 2-inch pleats, will be located, one each side, along the front leg panels at the top of the knee area. The pleats above the knee will be fully functional, not like the knee pleat designs that fully and permanently employ each knee pleat, under the knee reinforcements, creating bulk and mass.
The liner knee shall also employ the same pleat design, but off-set to the shell pleat and located at the center of the knee to work in concert with the shell pleats.
COMPLIANT NON-COMPLIANCE
Liner Knee Thermal Enhancement
An additional layer of thermal liner material will be sewn to the knee area of the liner system for added protection and increased thermal insulation. The knee 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-COMPLIANCE
Knee Reinforcements
The knee area shall be reinforced with "Stedshield" or Equivalent material. The knee reinforcement shall be slightly offset to the inside of the leg to insure proper coverage when

bending, kneeling and crawling. The knee reinforcements shall measure 10 inches wide by 12 inches high and shall be double stitched to the outside of the outer shell in the knee area for

NON-COMPLIANCE

greater strength and abrasion resistance.

COMPLIANT

Padding Under Knee Reinforcements

of thermal liner mat knees to prevent m	terial. The two layers ma	ne knees will be padded with two extra layers terial will be boxed stitched to the outer shell The padding will be installed underneath the
	COMPLIANT	NON-COMPLIANCE
Pant Cuff Reinford		
reinforcement shall inch exposure on th double stitched to the shall be attached to bottom of the Pant	not be less than 2 incher ne inside and outside of the he outer shell. Two NOM the inside of each leg of leg. Snap fasteners will be	d with "Stedshield" or Equivalent material. The cuff in width and folded in half for approximately one-ne leg openings. The cuff reinforcement shall be EX® snap tabs measuring approximately 1 inch long the outer shell approximately three inches from the ne installed at the end of each tab and at the bottom hin three inches of the cuff to secure the liner to the
	COMPLIANT	NON-COMPLIANCE
Boot Cut		
		that the back of the leg falls higher than the front ne cuffs and improved interface with the fire boot.
	COMPLIANT	NON-COMPLIANCE