



CITY OF KIRKLAND INVITATION FOR BID

Information for Bidders:

Notice is hereby given that the City of Kirkland will receive sealed bids in the office of the Financial Operations Manager, City Hall, 123 Fifth Avenue, Kirkland, Washington, by 10:00:00 am local time on February 13, 2020 for the project hereinafter referred to as:

Project Name: KIRKLAND FIRE DEPARTMENT PROTECTIVE JACKETS AND TROUSERS FOR STRUCTURAL FIRE FIGHTING Invitation for Bid #12-20-FD

The City of Kirkland is seeking bids for 30 protective jacket and pants for structural firefighting.

Bid Due: February 13, 2020 by 10:00:00 am PST. At said time all bids will be opened and publicly read aloud. The City of Kirkland –Purchasing Division must receive bids no later than specified time and date. Bids received after such time will be returned unopened. Responses may be mailed or hand delivered. Bids sent via email will not be accepted. Bids are to be valid for 90 days after due date. The City reserves the right to request further extensions if necessary.

The City will not sell bid packages. Bid documents and addenda may be viewed and obtained online on the City of Kirkland’s website at www.kirklandwa.gov. Locate by clicking on “Business” at the top of the webpage and then “Request for Proposals” under “Doing Business with the City.” Call 425-587-3123 if unable to access IFB documents online.

Selection and Award: This purchase shall be awarded to the bidder who provides the lowest responsible priced bid and in conformance with program schedule that in the opinion of the City meets all of the specification criteria.

The City of Kirkland reserves the right to reject any and all bids/bids and to waive any irregularities or information in the evaluation process. The final decision is the sole decision of the City of Kirkland and the respondents to this solicitation have no appeal rights or procedures guaranteed to them. The City of Kirkland reserves the right to conduct any necessary interviews for clarification purposes before final award.

Each Bidder is required to file with its bid based on the due date listed below. Before a contract will be awarded to the lowest, responsive, responsible Bidder, the City will conduct such investigation as is necessary to determine the performance record and ability of the apparent low Bidder(s) to perform the size and type of Work specified under this contract. Upon request, the Bidder shall submit such additional information as deemed necessary by the City to evaluate the Bidder's qualifications.

For questions regarding the bid, contact Please feel free to contact Greg Piland (gpiland@kirklandwa.gov).



Submit your bid on the Bid Price Sheet and other forms which are enclosed, or make a copy of the required forms and submit these documents.

No bids may be withdrawn within sixty (60) days after the actual date of the bid opening.

Greg Piland
Financial Operations Manager

Published: Daily Journal of Commerce – January 30, 2020





Specifications:

OVERVIEW AND PURPOSE: The City of Kirkland Fire Department is soliciting bids to establish one or more contracts with qualified vendors to furnish new and unused protective jackets and trousers (turnouts) for structural firefighting on an as-needed basis throughout the contract term.

The Technical Specifications were developed from specifications of the current Globe G- Xtreme model turnout gear currently used by the department. Manufacturers and sales distributors of other turnouts are welcome to submit bids for equivalent model garments. Proposed jackets and trousers should comply with the requirements identified in these Specifications. It is the Respondent's responsibility to identify and explain any deviations from these Specifications.

CONTRACT TERM AND PRICE CONDITIONS: The initial contract shall be for a term of two years, and shall include a renewal option of three additional one-year periods. Pricing shall be firm and fixed for the term of the initial contract. Price adjustments for the additional one-year renewal periods can be agreed upon and made prior to executing renewal agreements.

PLANNED PURCHASES: The City typically orders jacket and trousers on an as-needed basis. The City's purchases for gear totaled is planned for 30 sets each year with an initial contract purchase of 60 sets. It is anticipated that other public agencies may wish to utilize this contract as allowed by RCW 39.34.

SCOPE OF WORK: As requested by the City of Kirkland Fire Department, this Invitation to Bid ("IFB") has been issued for the sole purpose and intent of obtaining bid responses from responsive and responsible bidders.

EACH BID shall constitute an offer to the City of Kirkland as outlined herein. Bid prices will include all costs associated with the performance of the contract such as sales tax, permits, insurance, shipping, handling, freight charges, etc. Installation of products is not included.

F.O.B. DESTINATION DELIVERY: All deliveries are to be F.O.B., inside delivery, City of Kirkland Police Department, with all delivery charges to be prepaid by the Bidder. The City does not accept C.O.D. or collect shipments.

ALTERNATIVE PRODUCTS: The City of Kirkland will consider alternative products that meet the requirements of NFPS Standard #1971 and OSHA for structural fire fighters protective clothing. All alternates must be received by February 6, 2020 by 5:00 PM PST. Fire Department staff will determine if the substitutes suggested will meet the needs of City fire fighters.

SPECIFICATIONS: The City of Kirkland reserves the right to determine which specific items on any specification requirements require strict adherence, or are most important, and those that are not, or



requiring a lesser degree of importance. Such determination can and will be a basis for evaluating, recommending and making award. The City will, at its discretion, assess warranty offered, and utilize life-cycle costing and/or performance factors as the evaluation method and basis for award. The low bid most closely meeting specifications is usually the bid given the award, although delivery time is sometimes a necessary factor. Should a requested specification sheet not be submitted with a bid, this is considered non-responsive and therefore will not be considered. Please read and respond to specification requirements carefully.

MOST CURRENT MODEL: Unless otherwise stated, all equipment furnished shall be manufacturer's latest model. Appurtenances and/or accessories not herein mentioned, but necessary to furnish a complete unit, ready for use upon delivery, shall be included in the bid and conform in design, strength, quality of material and workmanship to what is usually provided to the trade in general. The unit furnished shall be a current model under standard production by the manufacturer. All items bid shall be new products. No used products will be accepted.

QUANTITIES: The quantities shown are estimated. The City of Kirkland reserves the right to increase/decrease the stated estimated annual requirements as necessary to meet actual requirements.

PLANNED PURCHASES: The City plans to purchase the quantity identified in the bid items below. **It is anticipated that other public agencies may wish to utilize this contract as allowed by RCW 39.34.**

TENTATIVE SCHEDULE OF EVENTS:

IFB issued January 30, 2020

Questions/Alternate Products due February 6, 2020 by 5:00 PM PST

Answers Issued February 10, 2020

Bids due February 13, 2020 at 10:00:00 am PST

Anticipated Award March 3, 2020

QUESTIONS REGARDING THIS IFB: ALL questions or alternates must be submitted in writing (Email is preferred). Questions and answers along with the determination of substitutions will be posted on the City of Kirkland website. In order to make information available to all proposing suppliers, no questions will be entertained after 5:00 pm on February 6, 2020.

Questions regarding the bidding process and specifications must be submitted to Greg Piland, Financial Operations Manager at gpiland@kirklandwa.gov.

Questions may be mailed to either party at City of Kirkland, 123 5th Ave, Kirkland, WA 98033.



DISTRIBUTION OF BID DOCUMENT AND ADDENDA: This IFB can be downloaded directly from the City of Kirkland's website at www.kirklandwa.gov (Click on "City Purchasing" under "Most Requested".) Those who wish to automatically receive any addenda or a notice of cancellation should provide contact information by emailing Greg Piland at gpiland@kirklandwa.gov. Those who choose not to submit contact information will be solely responsible for monitoring the City's website for any addenda or a notice of cancellation.

BID PREPARATION: Firms submitting bids shall be responsible for any and all costs and/or expenses associated with preparing such proposal.

SUBMISSION OF BID PROPOSALS: All bid proposals must be received no later than **10:00:00 am Pacific Time on February 13, 2020**. Bids must be signed by an authorized company representative and submitted in a sealed envelope. Bids must be addressed to:

**City of Kirkland
Attn: Greg Piland, Financial Operations Manager
IFB No. 12-20-FD
123 5th Ave
Kirkland, WA 98033**

It is the responsibility of the supplier to be sure the proposals are sent sufficiently ahead of time to be received **no later than 10:00 am on February 13, 2020**. Proposals received after the deadline will not be considered for award of contract.

EVALUATION PROCESS: This is an Invitation for Bids for specific items and our intent is to award the contract to the responsible supplier that submits the lowest responsive bid.

CONTRACT: The contract shall consist of the following documents: The Invitation for Bids (IFB), the accepted bid, any purchase orders issued by the City and any agreed upon written changes to any of the foregoing documents. The contract documents are complimentary and what is called for in any one document shall be binding as if called for by all.

COMPLIANCE WITH LAWS: The supplier shall comply with all applicable federal, state and local laws, rules, and regulations, affecting its performance and hold the Purchaser harmless against any claims arising from the violation thereof.

GENERAL BID INFORMATION: Submission of the proposal will signify the firm's agreement that its proposal and the content thereof are valid for 60 days following the submission deadline and will become part of the contract that is negotiated between the City and the successful firm.

COOPERATIVE PURCHASING: RCW 39.34 allows cooperative purchasing between public agencies (political subdivisions) in the State of Washington. Public agencies which have filed an Intergovernmental Cooperative Purchasing Agreement with the City of Kirkland may purchase from City of Kirkland contracts, provided that the firm agrees to participate. The City of Kirkland does not



accept any responsibility for purchase orders issued by other public agencies.

PUBLIC DISCLOSURE: Once submitted to the City, proposals shall become the property of the City, and all proposals shall be deemed public records as defined in Chapter 42.56 RCW, Washington's Public Records Act ("PRA"). Any proposal containing language which purports to copyright the proposal, declares the entire proposal to be confidential, declares that the document is the exclusive property of the proposer, or is any way contrary to the PRA or this proposal, could be removed from consideration. The City does not accept responsibility for determining what the proposer may consider confidential or proprietary. Therefore, any information in the proposal that the proposer claims confidential and/or proprietary or otherwise exempt from disclosure under RCW 42.56.270 or any other provision of the PRA must be clearly designated as described in the "Proprietary Material Submitted" section above. It must also include the exemption(s) from disclosure upon which the proposer is making the claim, and the pages and portions thereof must be clearly marked and identified. With the exception of lists of prospective proposers, and except to the extent otherwise required by law, the City will not disclose proposals until a bid selection is made. At that time, all information about the competitive procurement will be available with the exception of: portions of a proposal specifically designated as confidential and/or proprietary and therefore exempt from disclosure under the PRA until such time as the proposer has a reasonable opportunity to seek a court order preventing such disclosure.

NONCOLLUSION: The supplier must certify that their firm has not entered into any agreement of any nature whatsoever to fix, maintain, increase or reduce the prices or competition regarding the items covered in this Invitation for Bids. Supplier is to complete the attached Non-collusion affidavit and submit it with the proposal.

PAYMENT TERMS: Net 45 days after delivery, acceptance and receipt of invoice. Acceptance includes inspection and approval by City of Kirkland's Fire Department.

FREIGHT TERMS: Quoted price is to include delivery to designated locations. Shipping will be FOB destination and include delivery.

NON-DISCRIMINATION: The City of Kirkland requires that no person shall, on the grounds of race, religion, color, national origin, sex, age, marital status, political affiliation, sexual orientation, or the presence of any sensory, mental or physical disability be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity. The City of Kirkland further assures that every effort will be made to ensure non-discrimination in all of its programs and activities, whether those programs are federally funded or not.

In addition to nondiscrimination compliance requirements, the firm ultimately awarded a contract shall comply with federal, state and local laws, statutes and ordinances relative to the execution of the work. This requirement includes, but is not limited to, protection of public and employee safety and health; environmental protection; waste reduction and recycling; the protection of natural resources; permits; fees; taxes; and similar subjects.



**GENERAL SPECIFICATIONS
KIRKLAND FIRE DEPARTMENT PROTECTIVE JACKETS
AND TROUSERS FOR STRUCTURAL FIRE FIGHTING**

Kirkland FD

SCOPE

This specification details design and materials criteria to afford protection to the upper and lower body, excluding head, hands, feet, against adverse environmental effects during structural fire fighting. All materials and construction will meet or exceed NFPA Standard #1971 and OSHA for structural fire fighters protective clothing.

_____Comply _____Exception

SIZING

In order to insure that every member of the department can safely perform to the maximum of their ability without extra bulk and without restriction, Jackets and Pants shall be available in all sizes and dimensions as follows:

Pants:

- Gender: Gender specific Men's and Women's patterns
- Waist: Even sizes
- Body Shape: Men's: Relaxed and Regular
Note: Relaxed is a fuller cut in the hips and thighs, like relaxed jeans.
Women's: Relaxed
- Inseam: Even sizes

Jackets:

- Gender: Gender specific Men's and Women's patterns will be available.
- Chest: Even sizes
- Back Length: Men's 29 inches, 32 inches, 35 inches, 40 inches
Women's 26 inches, 29 inches
- Body Shape: Men's: Straight and Tapered
Note: The straight cut offers more fullness at the hips (i.e. jacket sweep) and is recommended when an IH Ready pant is being specified.
Women's: Straight
- Sleeve: 1 inch increments

Jackets and Pants available in only one standard shape will not be acceptable.

_____Comply _____Exception

OUTER SHELL MATERIAL - JACKETS AND PANTS

The outer shell shall be constructed of TENCATE "**AGILITY™ with ENFORCE™ technology**" Kevlar®/PBO/ Nomex® blend material with an approximate weight of 6.6 oz. per square yard in a twill weave. The shell material must be treated with **SST• (SUPER SHELLTITE)** which is a durable water-repellent finish that also enhances abrasion resistance. Color of the garments shall be black. **Bids offering this shell material without the SST• will not be considered.**

_____Comply _____Exception





THERMAL INSULATING LINER - JACKET AND PANTS

The thermal liner shall be constructed of TENCATE "CALDURA® ELITE SL2i"; with an approximate weight of 7.7 oz. per square yard. This thermal liner consists of one layer of 1.5 oz. and one layer of 2.3 oz. per square yard Nomex® E-89™ spunlaced Nomex®/Kevlar® aramid blend, quilt stitched to a Kevlar® filament and FR rayon/para-aramid/nylon inherently wicking Caldura® face cloth. The thermal liner shall be attached to the moisture barrier and bound together by bias-cut neoprene coated cotton/polyester around the perimeter. This provides superior abrasion resistance to the less expensive, less durable, "stitch and turn" method. An approximate 8 inch by 10 ½ inch pocket, constructed of thermal liner over-edged to a layer of moisture barrier material, shall be affixed to the inside of the jacket thermal liner on the left side by means of a single needle stitch. Further mention of "Thermal Liner" in this specification shall refer to this section.

MOISTURE BARRIER - JACKETS AND PANTS

The moisture barrier material shall be W.L. GORE **CROSSTECH® black moisture barrier** - Type 2F, which is comprised of a CROSSTECH® membrane laminated to a Nomex® IIIA woven pajama check substrate. The CROSSTECH® membrane is an enhanced bicomponent membrane comprised of an expanded PTFE (polytetrafluoroethylene, for example Teflon®) matrix having a continuous hydrophilic (i.e. water-loving) and oleophobic (i.e. oil-hating) coating that is impregnated into the matrix. CROSSTECH® moisture barrier seams shall be sealed with GORE-SEAM® tape using a Series 6000 (or higher) GORE-SEAM™ sealing machine to afford comparable bacteriophage penetration resistance performance. Further mention of "Specified Moisture Barrier" in this specification shall refer to this section.

_____Comply _____Exception

SEALED MOISTURE BARRIER SEAMS

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.

_____Comply _____Exception

METHOD OF THERMAL LINER/MOISTURE BARRIER ATTACHMENT FOR JACKETS AND PANTS

The thermal liner and moisture barrier shall be completely removable from the jacket shell. A minimum of six snap fasteners shall secure the thermal liner/moisture barrier to the outer shell along the length of the neck line under the top most collar. The top most collar shall be turned under and finished such that the snaps on the collar will not be able to contact the wearers skin. Corresponding snaps shall be installed through a moisture barrier leader measuring an approximate height of 1.75 – 2 inches and shall not penetrate through to the outer shell on the backside of the collar. The remainder of the thermal liner/moisture barrier shall be secured with snap fasteners appropriately spaced on each jacket facing and Ara-Shield® snap fasteners at each sleeve end. There shall be one Ara-shield® snap tabs at the liner sleeve end which shall be colored to correspond with color coded snap tabs on the shell sleeve end for ease of matching the liner system to the outer shell after inspection or cleaning is completed.

The thermal liner and moisture barrier shall be completely removable from the pant shell. Nine snap fasteners shall be spaced along the waistband to secure the thermal liner to the shell. The legs of the thermal liner/moisture barrier shall be secured to



the shell by means of Ara-Shield® snap fasteners, 2 per leg. The Ara-shield® snap tabs on the shell shall be color coded to corresponding color coded snap tabs in the liner for ease of matching the liner system to the outer shell after inspection or cleaning is completed. There shall be no hook and loop used to close the liner access opening.

_____Comply _____Exception

THERMAL PROTECTIVE PERFORMANCE

The assembled garment, consisting of an outer shell, moisture barrier and thermal liner, shall exhibit a TPP (Thermal Protective Performance) rating of not less than 35.

_____Comply _____Exception

STITCHING

The outer shell shall be assembled using stitch type #301, #401, #514 and #516. The thermal liners and moisture barriers shall be assembled using stitch type #301, #401, #504, #514, and #516. Major A outer shell structural seams and major B structural liner seams, shall have a minimum of 8 to 10 stitches per inch. All major A seams shall be sewn with ball point needles only. All seams shall be continuously stitched only.

_____Comply _____Exception

JACKET CONSTRUCTION

BODY

The body of the shell and AXTION® liner system shall be constructed of three separate panels consisting of two front panels and one back panel. The body panels shall be shaped so as to provide a tailored fit thereby enhancing body movement and shall be joined together by double stitching with Nomex® thread. One-piece outer shells shall not be acceptable.

_____Comply _____Exception

AXTION® BACK

The jacket outer shell shall include inverted pleats to afford enhanced mobility and freedom of movement in addition to that provided by the AXTION® sleeves. The outer shell shall have two inverted pleats (one each side) installed on either side of the back body panel. The inverted pleats shall begin at the top of each shoulder and extend vertically down the sides of the jacket to the hem. Maximum expansion of the pleats shall occur at the shoulder area and taper toward the hem. Pleats that do not extend to the hem will not be considered, since they do not provide a true AXTION® back.

The moisture barrier and thermal liner layers shall be designed with darts corresponding to the added length in the shell provided by the AXTION® back pleats. The darts are positioned at the shoulder blades, outside of the SCBA straps and work together with the corresponding outer shell pleats in the AXTION® back, providing maximum expansion. The moisture barrier darts will be seam sealed to assure liquid resistance integrity.

_____Comply _____Exception



LOGOS

The garment brand shall be identified by means of red FR Nomex® thread embroidery on the top of the left collar denoting "GLOBE" as the manufacturer. There shall be a reflective label specific to the garment style, measuring 1 inch wide by 4 inches long, installed on the left pocket flap.

_____Comply _____Exception

DRAG RESCUE DEVICE (DRD)

A Firefighter Drag Rescue Device (DRD) shall be installed in each jacket. The ends of a 1 inch wide strap, constructed of Kevlar®, shall be sewn together to form a continuous loop. The strap shall be installed in the jacket between the liner system and outer shell such that when properly installed will loop around each arm. The strap will be accessed through a portal between the shoulders on the upper back where it is secured in place by an FR strap. The DRD shall be removable for laundering. The access port shall be covered by an outside flap of shell material, designed to fit between the shoulder straps of an SCBA. The flap will have a NFPA-compliant 3M Scotchlite™ reflective logo patch sewn to the outside to clearly identify the feature as the DRD (Drag Rescue Device). The DRD shall not extend beyond the outside flap. This device provides a quickly deployed means of rescuing a downed firefighter. Flimsy, rope-style DRD straps will not be considered.

_____Comply _____Exception

LINER ACCESS OPENING (JACKET)

The liner system of the jacket shall incorporate an opening at the leading edge of the right front panel. This opening shall run a minimum of 11 inches for the purpose of inspecting the integrity of the jacket liner system. When installed into the outer shell the Liner Access Opening shall be covered and protected by the overlap of the outer shell facing.

_____Comply _____Exception

RETROREFLECTIVE FLUORESCENT TRIM

OPTIONAL JACKETS - RETROREFLECTIVE FLUORESCENT TRIM

The retroreflective fluorescent trim shall be lime/yellow 3M Scotchlite™ COMFORT Trim (Heat applied segmented L/Y borders with silver center).

NOTE: The use of 3M Scotchlite™ COMFORT trim negates the need for SET sleeve reinforcements. Additionally, since the trim is not sewn, there is no Trim Trax applied to this type of trim.

_____Comply _____Exception



SEWN ON RETROREFLECTIVE LETTERING

Each jacket shall have 3" lime/yellow 3M Scotchlite™ lettering on a patch reading: KIRKLAND

Each jacket may have 2" or 3" lime/yellow 3M Scotchlite™ lettering on a hanging patch.

_____Comply _____Exception

LETTER PATCH

Sew-On Letter Patch

Lettering on Row A will be on a sew-on letter patch. The sew-on letter patch shall be constructed of a layer of outer shell material.

Hanging Letter Patch

The hanging letter patch shall be constructed of a double layer of outer shell material. The letter patch will attach to the rear inside hem of the jacket with a combination of snap fasteners and FR hook & loop fastener tape.

_____Comply _____Exception

COLLAR & FREE HANGING THROAT TAB

The collar shall consist of a minimum four-layer construction and be of one-piece design. There shall be two layers of specified moisture barrier material sandwiched in between two layers of outer shell fabric (see Moisture Barrier section). The forward inside ply of moisture barrier shall be sewn to the inside of the collar along the edges only. The multi-layered configuration shall provide protection from water and other hazardous elements, while maintaining thermal protection. The collar shall be a minimum of 3 inches high and graded to chest size. The leading edges of the collar shall extend up evenly from the leading edges of the jacket front body panels so that no gap occurs at the throat area. The collar back layers of outer shell and moisture barrier shall be joined to the body panels with a minimum of two rows of stitching. The collar front layers of outer shell and moisture barrier fabric shall have a series of minimum 6 snap fasteners spaced equidistant to minimize gaps on lower edge of the collar. The top most collar shall be turned under and finished such that the snaps on the collar will not be able to contact the wearer's skin. There shall be corresponding snap fasteners on a moisture barrier leader, which is sewn to the thermal liner system to engage the snaps on the collar. The snaps on the thermal liner system leader will be installed such that they do not penetrate from the outer shell through to the inner layers. This moisture barrier leader on the thermal liner system shall be sandwiched between the underside of the top collar shell fabric and moisture barrier material and the bottom collar shell fabric and moisture barrier material so as to reduce the possibility of liner detachment while donning and doffing.

The throat tab shall consist of a minimum of four-layer construction and be a scoop type design. There shall be of two plies of outer shell material with two center plies of moisture barrier material. The throat tab shall measure not less than 3 inches wide at the center tapering to 2 inches at each end with a total length of approximately 9 inches. The throat tab will be attached to the right side of the collar by a 1 inch wide by 1 inch long piece of Nomex® twill webbing. The throat tab shall be secured in the closed and stowed position with FR hook and loop fastener tape. The FR hook and loop fastener tape shall be oriented to prevent exposure to the environment when the throat tab is in the closed position. Two 1½ inch by 3 inch pieces of FR loop fastener tape shall be sewn horizontally to the inside of each end of the throat tab. Corresponding pieces of FR hook fastener tape measuring 1 inch by 3 inches shall be sewn horizontally to the leading outside edge of the collar on each side, for attachment and adjustment when in the closed position and wearing a breathing apparatus mask. In order to provide a means of storage for the throat tab when not in use, a 1 inch by 3 inch piece of FR hook fastener tape shall be sewn horizontally to the inside of the throat tab immediately under the 1½ inch by 3 inch pieces of FR loop fastener tape. The collar closure strap shall fold in half for storage with the FR loop fastener tape engaging the FR hook fastener tape.





A hanger loop constructed of a double layer of outer shell material shall be sewn to the top of the collar at the center.

_____Comply _____Exception

JACKET FRONT

The jacket shall incorporate separate facings to ensure there is no interruption in thermal or moisture protection in the front closure area. The facings shall measure approximately 2½ 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 jacket facings and configured such that it is sandwiched between the jacket facing and the inside of the respective body panel. The breathable film side shall face inward to protect it. There shall be wicking barrier constructed of Crosstech® 2F moisture barrier material installed on the front closure system on the left and right side directly below the front facings to ensure continuous protection and overlap. The wicking barrier shall extend no more than a maximum of ¾ inch beyond the inner facing and false facing shall be unacceptable. The thermal liner and moisture barrier assembly shall be attached to the jacket facings by means of snap fasteners.

_____Comply _____Exception

STORM FLAP

A rectangular storm flap measuring approximately 3 inches (6 inches for hook and dee inside/FR hook and loop fastener tape outside closure; aka #7C) wide and a minimum of 23 inches long (based on a 32 inch length jacket) shall be centered over the left and right body panels to ensure there is no interruption in thermal or moisture protection in the front of the jacket. The outside storm flap shall be constructed of two plies of outer shell material with a center ply of breathable moisture barrier material. The outside storm flap shall be double stitched to the right side body panel and shall be reinforced at the top and bottom with backtacks.

_____Comply _____Exception

STORM FLAP AND JACKET FRONT CLOSURE SYSTEM

The jacket shall be closed by means of a 22 inch size #10 heavy duty high-temp smooth-gliding YKK Vislon® zipper on the jacket fronts and FR hook and loop fastener tape on the storm flap. The teeth of the zipper shall be mounted on black Nomex® tape and shall be sewn into the respective jacket fronts. The storm flap shall close over the left and right jacket body panels and shall be secured with FR hook and loop fastener tape. A 1½ inch piece of FR loop fastener tape shall be installed along the leading edge of the storm flap on the underside with four rows of stitching. A corresponding 1½ inch piece of FR hook fastener tape shall be sewn with four rows of stitching to the front body panel and positioned to engage the loop fastener tape when the storm flap is closed over the front of the jacket.

_____Comply _____Exception

ZIPPERGRIPPER™

There shall be a ZIPPERGRIPPER™ feature integrated into the zipper closure of the jacket. The ZIPPERGRIPPER™ shall facilitate donning and shall provide additional room at the base of the jacket when sitting otherwise engaged. The ZIPPERGRIPPER™ will be comprised of black Ara-Shield®, with the zipper installed on one side of the Ara-Shield® and with the opposite side double stitched to the left coat front. The ZIPPERGRIPPER™ will be wedged shaped, measuring approximately 4 inches high and



finished 1½ inches wide at the bottom. There will be a single row of stitching, approximately 2 inches high, to ensure the ZIPPERGRIPPER™ is held in place beneath the stormflap.

_____Comply _____Exception

CARGO/HANDWARMER EXPANSION (BELLOWS) POCKETS

Each jacket front body panel shall have a 2 inch deep by 8 inch wide by 8 inch high expansion pocket, double stitched to it and shall be located such that the bottom of the pockets are at the bottom of the jacket for full functionality when used with an SCBA. Retroreflective 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 expansion pocket shall be reinforced with a layer of Kevlar® approximately 5 inches up on the inside of the pocket.* The pocket flaps shall be rectangular in shape, constructed of two layers of outer shell material and shall measure approximately 3 inches deeper than the pocket expansion and ½ inch wider than the pocket. Sandwiched between the two outer shell layers of the flap shall be a strip of Silizone® to aid in opening the pocket. The upper pocket corners shall be reinforced with proven backtacks and pocket flaps shall be reinforced with backtacks. The pocket flaps shall be closed by means of FR hook and loop fastener tape. Two pieces of 1 ½ inch by 3 inch FR hook fastener tape shall be installed vertically on the inside of each pocket flap (one piece on each end). Two corresponding pieces of 1 ½ inch by 3 inch FR loop fastener tape shall be installed horizontally on the outside of each pocket near the top (one piece on each end) and positioned to engage the hook fastener tape.

Additionally, a separate hand warmer pocket compartment will be provided under the expandable cargo pocket. This compartment will be accessed from the rear of the pocket and shall be lined with Nomex® Fleece for warmth and comfort. Shell material linings shall not be considered acceptable.

Retroreflective trim shall run over the bottom of the pockets so as not to interrupt the trim stripe.

26" length jacket – standard size pockets are not available, expansion pockets are available in either 2 inch deep by 10 inch wide by 6 inch high or 2 inch deep by 8 inch wide by 6 inch high

_____Comply _____Exception

AXTION® SLEEVES

The sleeves shall be of two piece construction and contoured, having an upper and a lower sleeve. Both the under and upper sleeve shall be graded in proportion to the chest size. For unrestricted movement, on the underside of each sleeve there shall be two outward facing pleats located on the front and back portion of the sleeve on the shell and thermal liner. On the moisture barrier, the system will consist of two darts, rather than pleats, to allow added length in the under sleeve. The moisture barrier darts will be seam sealed to assure liquid resistance integrity.

The pleats shall expand in response to upper arm movement and shall fold in on themselves when the arms are at rest. This expansion shall allow for greater multi-directional mobility and flexibility in the shoulder and arm areas, with little restriction or jacket rise. Neither stove-pipe nor raglan-style sleeve designs will be considered acceptable.

_____Comply _____Exception

SLEEVE CUFF REINFORCEMENTS

The sleeve cuffs shall be reinforced with a layer of black Dragonhide® material. The cuff reinforcements shall not be less than 2 inch 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; a single row of stitching shall be



considered unacceptable. This independent cuff provides an additional layer of protection as compared to a turned and stitched cuff. Jackets finished with a turned and stitched cuff do not provide the same level of abrasion resistance and will be considered unacceptable.

_____Comply _____Exception

WRISTLETS / ELASTICIZED ADJUSTABLE SLEEVE WELLS

Each jacket shall be equipped with **Nomex® 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. Nomex® knit is constructed of 96% Nomex® and 4% Spandex for shape retention. The color of the wristlets shall be white.

The wristlets shall be sewn to the end of the liner sleeves. Flame resistant neoprene coated cotton/polyester material shall be sewn to the inside of the sleeve shell approximately 5 inches from the sleeve end and extending toward the cuff forming the sleeve well. The neoprene sleeve well shall form an elasticized cuff end with an FR hook and loop fastener tape tab providing a snug fit at the wrist and covering the knit wristlet. This sleeve well configuration serves to prevent water and other hazardous elements from entering the sleeves when the arms are raised. The neoprene material shall also line the inside of the sleeve shell from the cuff to a point approximately 5 inches back, where it joins the sleeve well and is double stitched to the shell. Four Ara-shield® 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. One of the Ara-shield® snap tabs shall be a different color in the liner to correspond with color coded snap tabs for ease of matching the liner system to the outer shell after inspection or cleaning is completed. This configuration will ensure there is no interruption in protection between the sleeve liner and wristlet.

_____Comply _____Exception

LINER ELBOW THERMAL ENHANCEMENT

An additional layer of thermal liner material shall be sewn to the elbow area of the liner system for added protection at contact points and increased thermal insulation in this high compression area. The elbow 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. Finished dimension shall be approximately 5 inches by 8 inches. All edges shall be finished by means of overedging. Raw or unfinished edges shall be considered unacceptable. Thermal scraps shall not be substituted for full-cut fabric padding.

_____Comply _____Exception

LINER SHOULDER AND UPPER BACK THERMAL ENHANCEMENT

A minimum of one additional layer of thermal liner material shall be used to increase thermal insulation in the upper back, front and shoulder area of the liner system. This full-cut thermal enhancement layer shall drape over the top of each shoulder extending from the collar to the sleeve/shoulder seam, down the front approximately 5 inches from the juncture of the collar down the back to a depth of approximately 5 ¾ inches to provide greater CCHR protection in this high compression area. The upper back, front and 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. The thermal enhancement layer shall have



finished edges by means of overedging. Raw or unfinished edges shall be considered unacceptable. Thermal scraps shall not be substituted for full-cut fabric padding. Smaller CCHR reinforcements shall not be considered acceptable since they provide far less area of coverage.

_____Comply _____Exception

INSET TORSO POCKET – TWO SLITS

NOTE: ONLY available with 5C, 8C, reverse 7C (this will be done automatically in production) and 17C closures. All will require extra-wide stormflaps.

The jacket shall be equipped with an inset torso pocket beneath the storm flap that affords access to a storage compartment at the chest area without fully opening the front closure. The hand can be inserted "Napoleon style" beneath the storm flap into either of two compartments, one below and one above the chest band of trim. The upper pocket shall extend approximately 11 inches in height by 8 inches wide and the lower pocket approximately 10 inches in height by 8 inches wide. The pockets shall be constructed of durable Kevlar® twill material and shall be bartacked to the outer shell at the top outer corner to hold in place. The access ports below the storm flap shall be reinforced with black Ara-Shield® material around the full perimeter of the openings for strength and shall measure approximately 6 ½ inches. When the Inset Torso Pocket is specified, the storm flap width must be increased to accommodate the access ports.

_____Comply _____Exception

4X9X15 DETACHABLE BREATHING APPARATUS FACE MASK POUCH 3M12KMP KIRKLAND MASK POUCH

An oval shaped pouch measuring approximately 4 inches deep by 9 inches wide by 15 inches high shall be constructed of outer shell material. Two metal drain eyelets shall be installed in the bottom of the pouch. The pouch closure shall consist of a heavy-duty Vislon zipper mounted on the side of the pouch closest to the jacket closure (as oriented to the wearer). The pouch opening shall measure a minimum of 12 inches long. The pouch shall be completely detachable from the coat and shall accommodate a breathing apparatus facemask. A 1-inch loop, constructed of outer shell material, shall be sewn to the top of the pouch. FR hook and loop fastener tape shall further secure the pouch to the coat to keep it from swinging. 1 ½ inch by 6 inch FR hook fastener tape shall be sewn horizontally to the back of the pouch. A corresponding piece of 1 ½ inch by 6 inch FR loop fastener tape shall be sewn to the front of the coat and positioned to engage the hook fastener tape. 2 snap fasteners shall be installed in the Velcro for added stability. A 1x4 Velcro ID patch shall be installed 1½ inches above the attachment Velcro on the back of the mask pouch. The detachable mask pouch shall be mounted on the right chest.

_____Comply _____Exception

RADIO POCKET

Each jacket shall have a pocket designed for the storage of a portable radio. This pocket shall be of box type construction, double stitched to the jacket 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 3 inches longer than the depth of the pocket and ¼ inch wider than the pocket. The pocket flap shall be closed by means of FR hook and loop fastener tape. A 1½ inch by 3 inch piece of FR hook fastener tape shall be installed 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 fastener tape shall be installed horizontally on the outside of the pocket near the top center and positioned to engage the hook fastener tape. In addition, the entire inside of the pocket shall be lined with neoprene coated cotton/polyester material to ensure that the radio is protected from the elements. The impermeable 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 3 inches deep by 3.5 inches wide by 7 inches high and shall be installed on the left chest.

_____Comply _____Exception



NOTCHED RADIO POCKET FLAP

The radio pocket flap shall be notched to accommodate the radio antenna on the left side as worn.

_____Comply _____Exception

MICROPHONE STRAPS

A strap shall be constructed to hold a microphone for a portable radio. It shall be sewn to the jacket at the ends only. The size of the microphone strap shall be 1 inch x 3 inches. The microphone strap shall be mounted 9.5" above the mask pocket Velcro on the right chest near the collar double layer outer shell material.

A second mic strap shall installed above the radio pocket on the left chest.

_____Comply _____Exception

SPEC POLYTAC 90 FLASHLIGHT HOLDER

Each jacket shall be equipped with a "Spec Polytac 90" flashlight holder. An inward facing safety hook, attached to a double layer self material strap, shall be double stitched in a vertical position to the upper chest. The inward facing safety hook will accommodate the clip portion of the flashlight. Below the safety hook will be a strap constructed of outer shell material measuring approximately 1 inch high and 7 inches wide, and will hold the barrel of the flashlight. A 1x1½ inch strap shall be stitched to the center of the Velcro strap to hold the clip on the back of the flashlight. The lower strap will be equipped with a 1 inch by 3 inch FR hook and loop closure at the front of the strap to facilitate easy removal of the flashlight. There shall be approximately 2 ½ inches between the upper safety hook and lower strap. The "Spec Polytac 90" flashlight holder shall be sewn to the jacket on the left chest next to the stormflap.

_____Comply _____Exception

EMBROIDERED AMERICAN FLAG – RIGHT SLEEVE

Each jacket shall have a Nomex® embroidered American flag that measures approximately 2½ inches high by 3½ inches wide. Per Military protocol the field of stars shall be to the top right corner for installation on the right sleeve. Flags made of fabric other than Nomex® shall be considered unacceptable.

_____Comply _____Exception

GLOBE GUARD™ – JACKET

The jackets shall be equipped with Globe Guard™ System slightly above the hemline to reduce the introduction of foreign matter onto the wearer. The Globe Guard™ system shall be constructed of two layers; one layer of yellow TecaSafe material, the second layer of a neoprene coated material.





The two layers shall be overedged at the top of the guard, then turned and topstitched to liner system approximately 4 ¼ inches above the hemline of the liner. The Globe Guard™ shall measure approximately 4 ½ inches wide at the center rear of the hem, tapering to approximately 1 ½ inches wide at the leading edges of the right and left front panels. The bottom of the Globe Guard™ shall encase a continuous band of an elasticized material extending the entire length of the guard. At the leading edge of the right and left front panels, there shall be a male snap fastener, which shall be placed to engage with a female snap fastener on the front facings of the jacket shell, completing the closure of the Globe Guard™ around the wearer's waist area.

_____Comply _____Exception

PANT CONSTRUCTION

BODY

The pant design facilitates the transfer of the weight of the pant to the hips instead of the shoulders and suspenders.

The body of the shell shall be constructed of four separate body panels consisting of two front panels and two back panels. The body panels shall be shaped so as to provide a tailored fit, thereby enhancing body movement, and shall be joined together by double stitching with Nomex® thread. The body panels and seam lengths shall be graded to size to assure accurate fit in a broad range of sizes.

The front body panels shall be wider than the rear body panels to provide more fullness over the knee area. This is accomplished by rolling the side leg seams (inside and outside) to the rear of the pant leg beginning at the knee. The slight taper shall prevent premature wear of the side seams by pushing them back and away from the primary high abrasion areas encountered on the sides of the lower legs.

_____Comply _____Exception

SIZING

In order to insure that every member of the department can safely perform to the maximum of their ability without extra bulk and without restriction, Pants shall be available in all sizes and dimensions as follows:

Pants:

Gender:	Gender specific Men's and Women's patterns
Waist:	Even sizes ranging from 24 to 56
Body Shape:	Relaxed and Regular
	Note: Relaxed is a fuller cut in the hips and thighs, like relaxed jeans.
Inseam:	Even sizes

Pants available in only one standard shape shall not be acceptable. Generalized sizing, such as small, medium, large, etc., shall not be considered acceptable.

_____Comply _____Exception

PANT LINER SYSTEM

The combined moisture barrier and the thermal liner shall be completely removable for the pant. The thermal liner and moisture barrier layers of the liner system shall be stitched together and bound around the top waist and cuffs with Bias-Cut Neoprene coated cotton/polyester binding for a finished appearance that prevents fraying and wicking of contaminants.



The body of the liner system (thermal liner & moisture barrier) shall be of a four-piece design to match the cut of the shell to include the rolled back side seams. The design of the liner system shall incorporate darts in the knee area providing a contour to the leg and shall also have a reverse boot cut at the rear of the liner cuff and a concave cut at the front to keep the liner from hanging below the shell.

_____Comply _____Exception

LINER ACCESS OPENING - PANT

The thermal liner and moisture barrier layers of the pant liner system shall be constructed in such a way as to allow an access opening for interior inspection, service and replacement. The thermal liner and moisture barrier layers shall be stitched together for security and prevention of inadvertent use of one layer without the other. The liner system shall have a reinforcement material sewn to the bottom of the fly opening. This reinforcement shall serve to prevent the liner from tearing in that area from the constant donning and doffing of the pants.

The liner system of the pant shall incorporate an opening along the back of the waistline for ease in inspecting the inner layers and to facilitate performing the complete Liner Inspection. The thermal liner and moisture barrier shall be individually bound with a neoprene coated bias cut tape and joined together on each of the front panels, along the waistband from the front fly opening to side seam. The back of the liner system shall be allowed to remain open with two snaps on either side of the back seam to attach the moisture barrier layer to the thermal liner layer. As described previously, the pant thermal layer system snaps directly to the independent waistband by means of nine snap fasteners. There shall be no hook and loop used to close the liner access opening.

_____Comply _____Exception

WAISTBAND

The waist area of the pants shall be reinforced on the inside with a separate piece of black aramid outer shell material, cut on the bias (diagonally). The reinforcement shall be folded in half, for a finished bottom edge and shall have a finished width of not less than approximately 1½ inches. The top edge of the waistband reinforcement shall be double stitched to the outer shell at the top of the pants. The lower edge of the waistband shall be unattached to the shell to accept the thermal liner and moisture barrier. The top of the thermal liner and moisture barrier shall be secured to the underside of the waistband reinforcement by means of nine snaps, spaced equidistant along the length of the waistband reinforcement. Inserting the liner system between the waistband reinforcement and outer shell serves to reduce the possibility of liner detachment while donning and doffing. The independent waistband construction affords greater comfort and fit than a turned and stitched method. Pants that do not include an independent waistband or are not cut on the bias shall not provide the same amount of stretch to the garment and shall be considered unacceptable.

_____Comply _____Exception

EXTERNAL/INTERNAL FLY FLAP

The pants shall have a vertical outside fly flap constructed of two layers of outer shell material, with a layer of moisture barrier material sandwiched between. The fly flap shall be double stitched to the left front body panel and shall measure approximately 2½ inches wide, with a length graded to size based on waist measurement and reinforced with bartacks at the base. An internal fly flap constructed of one layer of outer shell material, thermal liner and specified moisture barrier, measuring approximately 2 inches wide, with a length graded to size based on waist, shall be sewn to the leading edge of the right front body panel. The inside of the right front body panel shall be thermally enhanced directly under the outside fly with a layer of moisture barrier and thermal liner material.





The underside of the outside fly flap shall have a 1½ inch wide piece of FR loop fastener tape quadruple stitched along the full length and through the shell material only; stitching shall not penetrate the moisture barrier insert between the two layers to insure greater thermal protection and reduced water penetration. A corresponding strip of 1½ inch wide piece of FR hook fastener tape shall be quadruple stitched to the outside right front body panel securing the fly in a closed position.

Appropriate snap fastener halves shall be installed at the leading edge of the waistband for the purpose of further securing the pants in the closed position.

_____Comply _____Exception

PANT - 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 in 3 inch lime/yellow 3M Scotchlite™ COMFORT Trim (Heat applied segmented L/Y borders with silver center).

NOTE: The use of 3M Scotchlite™ COMFORT trim negates the need for SET sleeve reinforcements. Additionally, since the trim is not sewn, there is no Trim Trax applied to this type of trim.

Bottom of trim band shall be located approximately 3" above cuff.

_____Comply _____Exception

REINFORCED TRIM STITCHING

All reflective trim is secured to the outer shell with Nomex® thread, using a locking chainstitch protected by our exclusive TrimTrax® system. Developed exclusively by Globe Manufacturing Co., LLC. this strip of 3/32-inch strong, durable, flame resistant black Kevlar® cording provides a bed for the stitching along each edge of the retroreflective fluorescent trim surface and affords extra protection for the thread from abrasion. TrimTrax® has been proven to be 5 to 7 times more durable than single or even double rows of stitching, significantly reducing maintenance costs and providing more value and a longer service life. Two rows of stitching used to attach the trim in place of the TrimTrax® shall be considered an unacceptable alternative, since it has been proven that the two rows of stitching has insignificant impact on wear life. All trim ends shall be securely sewn into a seam for a clean finished appearance.

_____Comply _____Exception

BLACK ARAMID BELT WITH BELT LOOPS

If the IH Pant is ordered with either an Escape Belt or a Harness, that belt shall be installed as the positive pant closure. If neither an Escape Belt nor a Harness is specified, the IH Pant shall include an approximate 2-inch wide belt constructed of aramid webbing material with an adjustable hi-temp thermoplastic Delrin buckle serving as the exterior primary positive locking closure. This buckle shall also provide a quick-release mechanism for donning and doffing.

The pants shall be equipped with a series of belt loops, spaced around the waist to accommodate an Escape Belt, a Harness or the aramid belt. One loop shall be located on the rear of the waist, centered over the rear seam, measuring approximately 3½ inches by 3½ inches. There shall be two additional wide loops at the front of each pant. The top of these two belt loops shall be angled, with the top measuring approximately 2½ inches and the bottom measuring approximately 4 ½ inches. Under each of the front belt loops there shall be a slit to accommodate an internal harness passing from the inside of the pant, to the





outside. The slits shall be at the same angle as the front belt loops, reinforced with black Ara-Shield® material, and having an opening that measures approximately 3 inches.

There shall be 2-piece loops constructed of a double layer of black aramid material installed inside the shell in the hip area, which shall serve to hold the leg loops of an optional internal harness in place. The top and bottom of the loops shall attach to each other with an approximate 1 inch by 1 inch FR hook and loop fastener tape sew to the ends.

In addition to the 3 wide belt loops, there shall be two rappelling harness loops installed at the rear of the pant, just behind each side seam. The loops shall be constructed of a double layer of outer shell material and shall be of a 2-piece design – top and bottom. The top and bottom of each loop shall attach to each other with snap fasteners and FR hook and loop fastener.

Comply Exception

CARABINER HOLD DOWN STRAP

The pant shall be equipped with a carabiner hold down strap. The strap shall be constructed of double layer black Ara-Sheild® material, consisting of two separate portions to form a strap with an opening of approximately 3 inches. Each portion of the strap shall measure approximately 1¾ inches wide by 3½ inches long. The lower portion of the strap shall be double needle stitched in the vertical position, opening upwards. There shall be a piece of 1½ by 2½ inch hook FR fastener tape single needle stitched to the strap approximately ¼ inch up from the bottom. The upper portion of the strap shall be double needle stitched in the vertical position, opening downwards to interface with the lower portion of the strap. There shall be a piece of corresponding 1½ by 2½ inch loop FR fastener tape single needle stitched to the strap approximately ½ inch down from the top of the strap. On both the upper and lower portions of the strap, there shall be a bartack centered between the double needle stitching. The strap shall be located behind the left front belt loop.

In the event the IH Pant is ordered with the Escape Belt, there shall be an additional carabiner hold down strap, added to the right front belt loop.

Comply Exception

BLACK ARAMID BELT WITH BELT LOOPS

If the IH Pant is ordered with either an Escape Belt or a Harness, that belt shall be installed as the positive pant closure. If neither an Escape Belt nor a Harness is specified, the IH Pant shall include an approximate 2-inch wide belt constructed of aramid webbing material with an adjustable hi-temp thermoplastic Delrin buckle serving as the exterior primary positive locking closure. This buckle shall also provide a quick-release mechanism for donning and doffing.

Comply Exception

AXTION® SEAT

The rise of the rear pant center back seam, from the top back of the waistband to where it intersects the inside leg seams at the crotch, shall exceed the rise at the front of the pant by approximately 8 inches. The longer rear center back seam provides added fullness to the seat area for extreme mobility without restriction when stepping up or crouching and shall be graded to size. This feature in combination with other design elements shall maintain alignment of the knee directly over the knee pads when kneeling and crawling.

Comply Exception



EXPANSION (BELLOWS) POCKETS (Left)

One 2 inch deep by 10 inch wide by 10 inch high bellows pocket shall be placed over the outer leg seams at thigh level. The pocket shall be sewn to the pant with two rows of lock stitching and shall provide two aluminum eyelets, installed at the bottom of the pocket, for water drainage. *The pocket shall be reinforced with an additional layer of Kelvar material sewn to the inside.* The pocket flap shall be rectangular in shape, constructed of two layers of outer shell material and double stitched to the outer shell. Two pieces of 1½ inch by 3 inch FR hook fastener tape shall be installed on the inside of the pocket flap vertically on each end of the flap. Two piece of corresponding 1½ inch by 3 inch FR loop fastener tape shall be installed horizontally on the outside of each end of pocket near the top and positioned to engage the hook fastener tape. Each pocket flap shall be reinforced with backtacks at the uppermost corners.

_____Comply _____Exception

EXPANSION (BELLOWS) IH ROPE POCKET (Right)

One 2 inch deep x 10 inch wide x 10 inch high bellows pocket shall be placed over the outer leg seam at thigh level. The pocket shall be sewn to the pant with two rows of lock stitching and shall provide two eyelets, installed at the bottom of each pocket, for water drainage. The pocket shall be reinforced with an additional layer of outer Kevlar® material sewn to the inside. The pocket flap shall be rectangular in shape and measure a minimum of 6 inches by a minimum of 11 inches, constructed of two layers of outer shell material and double stitched to the outer shell. Six pieces of 1½ inch by 3 inch FR hook fastener tape shall be installed vertically on the inside of each pocket flap – the six pieces shall form three rows, one each side and one in the middle, each row consisting of two pieces of FR hook fastener tape. Three pieces of 1 ½ inch by 3 inch FR loop fastener tape shall be installed horizontally on the outside of the pocket near the top and positioned to engage the hook fastener tape. The pocket flap shall be reinforced with backtacks at the uppermost corners. A 2-piece loop constructed of a double layer of black outer shell material shall be installed under the front edge of the pocket flap. Sandwiched between the two outer shell layers of the flap shall be a strip of Silizone® to aid in opening the pocket. The top and bottom of the loop shall attach to each other with a 1 inch x 1 inch FR hook and loop fastener tape sewn to ends. Inside the pocket, a strap constructed of black outer shell material measuring approximately 1 inch by 9 inches (when hook and loop is engaged) shall run the full vertical height of the pocket where it shall secure at the top with hook and loop fastener tape. A second strap shall be installed horizontally at the top front corner of the pocket. This strap shall be constructed of black outer shell material and measure approximately 1 inch by 4 inches and shall be sewn at one end and attach at the other end with hook and loop fastener tape. The straps are specially designed to secure the contents of the pocket and allow for quick release.

OPTIONAL The pockets may be completely lined with an additional layer of DragonHide® material sewn to the inside.
_____Comply _____Exception

EXPANSION POCKET REINFORCEMENTS

The lower half of the expansion pockets shall be reinforced on the outside with a layer of black Dragonhide® material.

_____Comply _____Exception

AXTION® KNEE

The outer shell of the pant legs shall be constructed with horizontal expansion pleats in the knee area with corresponding darts in the liner to provide added fullness for increased freedom of movement and maximum flexibility. The pleats shall be folded to open outwardly towards the side seams to insure no restriction of movement. The AXTION® knee shall be installed proportionate to the pant inseam, in such a manner that it falls in an anatomically correct knee location.

The thermal liner shall be constructed with four darts per leg in the front of the knee. Two darts shall be located above



the knee (one on each side) and two shall be located below the knee (one on each side). On the moisture barrier, the system shall consist of two darts, rather than pleats, to allow added length in the under knee. The darts in the liner provide a natural bend at the knee. The darts in the liner work in conjunction with the expansion panels in the outer shell to increase freedom of movement when kneeling, crawling, climbing stairs or ladders, etc.

_____Comply _____Exception

LINER KNEE THERMAL ENHANCEMENT

A minimum of one additional layer of specified thermal liner and one additional layer of moisture barrier material, measuring a minimum of 9 inches by 11 inches, shall be sewn to the knee area of the liner system for added CCHR protection and increased thermal insulation in this high compression area. 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. The thermal enhancement layer shall have finished edges by means of overedging. Raw or unfinished edges shall be considered unacceptable. Thermal scraps shall not be substituted for full-cut fabric padding. Smaller CCHR reinforcements shall not be considered acceptable since they provide far less area of coverage.

_____Comply _____Exception

KNEE REINFORCEMENTS

The knee area shall be reinforced with a layer of black Dragonhide® material. The knee reinforcement shall be centered on the leg to insure proper coverage when bending, kneeling and crawling. The knee reinforcements shall measure approximately 9 inches wide by 12 inches high and shall be double stitched to the outside of the outer shell in the knee area for greater strength and abrasion resistance. Knee reinforcements of a smaller size do not provide the same protective coverage and shall be considered unacceptable. The knee reinforcement specified shall be removable for replacement without opening Major A seams of the outer shell of the pant.

_____Comply _____Exception

PADDING UNDER KNEE REINFORCEMENTS

Padding for the knees shall be accomplished with one layer of **Silizone®** foam, sandwiched between the thermal liner and moisture barrier. The placement of Silizone® padding on the thermal versus the shell reduces bulk in the shell and also serves to protect the padding from abrasion and other wear issues that the outer shell is subject to. Pants with Silizone® knee padding on the shell as opposed to on the liner, do not provide the same level of bulk reduction and abrasion resistance and are not recommended.

_____Comply _____Exception

PANT CUFF REINFORCEMENTS

The cuff area of the pants shall be reinforced with a layer of black Dragonhide® material. The cuff reinforcement shall not be less than 2 inch in width and folded in half, approximately one half inside and one half outside the end of the legs for greater strength and abrasion resistance. The cuff reinforcement shall be double stitched to the outer shell for a minimum of two rows of stitching. This independent cuff provides an additional layer of protection over a hemmed cuff. Pants that



are turned and stitched at the cuff, as opposed to an independent cuff reinforcement, do not provide the same level of abrasion resistance and shall be considered unacceptable.

_____Comply _____Exception

PADDED RIP-CORD SUSPENDERS & ATTACHMENT

On the inside waistband shall be attachments for the standard "H" style "Padded Rip-Cord" suspenders. There shall be four attachments total – 2 front, 2 back. The suspender attachments shall be constructed of black Ara-Shield® material measuring approximately 1/2 inch wide by 3-inches long. They shall be sewn in a horizontal position on the ends only to form a loop. The appearance shall be much like a horizontal belt loop to capture the suspender ends.

A pair of "H" style "Padded Rip-Cord" suspenders shall be specially configured for use with the pants. The main body of the suspenders shall be constructed of 2 inch wide black webbing straps. The suspenders shall run over each shoulder to a point approximately shoulder blade high on the back, where they shall be joined by a 2 inch wide horizontal piece of webbing measuring approximately 8-inches long, forming the "H". This shall prevent the suspenders from slipping off the shoulders. The shoulder area of the suspenders shall be padded for comfort by fully encasing the webbing with aramid batting and wrap-around black aramid.

The rear ends of the suspenders shall be sewn to 2-inch wide elasticized webbing extensions measuring approximately 8-inches in length and terminating with thermoplastic loops. The forward ends of the suspender straps shall be equipped with specially configured black powder coat non-slip metal slides with teeth. Through the metal slides shall be the 9 inch lengths of strap webbing "Rip-Cords" terminating with thermoplastic loops on each end. Pulling on the "Rip-Cords" shall allow for quick adjustment of the suspenders.

Threaded through and attached to the thermoplastic loops on the forward and rear ends of the suspenders shall be black aramid suspender attachments incorporating two snap fasteners. The aramid suspender attachments are to be threaded through the suspender attachment loops on the inside waistband of the pants. The aramid suspender attachments shall then fold over and attach to themselves securing the suspender to the pants.

_____Comply _____Exception

REVERSE BOOT CUT

The outer shell pant leg cuffs shall be constructed such that the back of the leg is approximately 1 inch shorter than the front. The liner shall also have a reverse boot cut at the rear of the cuff and a concave cut at the front to keep the liner from hanging below the shell. This construction feature shall minimize the chance of premature wear of the cuffs and injuries due to falls as a result of "walking" on the pant cuffs.

_____Comply _____Exception

GLOBE GUARD™ – PANT

The pants shall be equipped with Globe Guard™ System at the pant cuff and at the base of the fly to reduce the introduction of foreign matter onto the wearer. This Globe Guard™ shall be constructed of two layers; one layer of yellow TecaSafe material, the second layer of a neoprene coated material.

The two layers shall be turned in and topstitched to each other, the finished guard pieces shall then be double stitched to the liner at the cuff hemlines and at the base of the crotch. The Globe Guard™s at the cuffs shall measure approximately 4 inches wide and run the full circumference of the liner cuff. The bottom of the Globe Guard™ shall encase a continuous band



of an elasticized material extending the full length of the Globe Guard™. The Globe Guard™ at the crotch opening shall be an elliptical shape, measuring approximately 3 inches high and 3 ½ inches wide, and secured to the binding by two rows of stitching.

Comply Exception

THIRD PARTY TESTING AND LISTING PROGRAM

All components used in the construction of these garments shall be tested for compliance to NFPA Standard #1971 by Underwriters Laboratories (UL). Underwriters Laboratories shall certify and list compliance to that standard. Such certification shall be denoted by the Underwriters Laboratories certification mark.

Comply Exception

LABELS

Appropriate warning label(s) shall be permanently affixed to each garment. Additionally, the NFPA certification label shall include the following information.

Compliance to NFPA Standard #1971
Underwriters Laboratories classified mark
Manufacturer's name
Manufacturer's address
Manufacturer's garment identification number
Date of manufacture
Size

Comply Exception

ISO CERTIFICATION / REGISTRATION

The protective clothing manufacturer shall be certified and registered to ISO Standard 9001 to assure a satisfactory level of quality. Indicate below whether the manufacturer is so certified and registered by checking either "Yes" or "No" in the space provided.

Yes No

WARRANTY:

The manufacturer shall warrant these jackets and pants to be free from defects in materials and workmanship for their serviceable life when properly used and cared for.

Comply Exception

HOOK AND LOOP SUPPORT PROGRAM

Support program shall cover hook or loop tape that has begun to fray or otherwise degrade from normal wear. This program shall remain in effect for a period of five years from the original date of manufacture of the garment. This support program shall cover the repair or replacement, without charge, of any hook and/or loop on the garments produced by the manufacturer providing the garments are otherwise serviceable.





This support program does NOT cover damage from fire, heat, chemicals, misuse, accident or negligence. Failure to properly care for garments will serve to void this support program.

_____Comply _____Exception

SIZING BY VENDOR:

Both male and female sizing samples shall be available.

Both male and female sizing samples shall be on hand for use when sizing. The vendor shall be available to perform all sizing requirements within 96 hours of written notice. Measuring with a tape measure is not acceptable.

_____Comply _____Exception

GARMENT TRAINING AND SUPPORT

OSHA requires employees be trained on the capabilities and limitations of their Personal Protective Equipment. The selected vendor shall provide the following:

On-site care and maintenance training shall be provided by the manufacturer. Training shall be in compliance with NFPA 1851, current edition, at the conclusion of which each participant shall receive a certificate of completion.

An on-site OSHA mandated training class on the Knowing the Limits of Your PPE shall be provided at no charge. The training shall include structural firefighting coat, pant and boots.

_____Comply _____Exception

BAR-CODE/RECORD KEEPING INTERFACE

A 1 dimensional barcode, in the interleaved 2 of 5 format shall be printed on the label of each separable layer of the garment.

This barcode shall represent the serial number of the garment. The manufacturer shall be able to provide a detailed list of each asset of a drop-shipped order, and shall include the following:

- Brand
- Order Number
- Serial Number
- Style Number
- Color
- Description
- Chest/Waist Size
- Jacket/pant Length
- Sleeve Length
- Date of Manufacture
- Mark-For Data

This information shall be able to be imported into the manufacturers web-based system designed to facilitate the organization and tracking of assets in accordance with the cleaning and inspection requirements of OSHA and NFPA 1851.

_____Comply _____Exception



PPE RECORD KEEPING

The manufacturer shall make available and no-charge, a password protected data based backed website that does not care whose brand of PPE assets are being recorded. The website shall have the functionality to allow the manufacturer to import all of the pertinent data into the department’s account so that the initial data entry by fire department personnel is eliminated.

The website shall allow for the department to use a barcode scanner, if desired, to scan the Interleaved 2 of 5 barcode found in the gear by going to the Search the Serial Number page in PPE record keeping program, and scanning the asset’s barcoded serial number.

_____Comply _____Exception

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.

COUNTRY OF ORIGIN

Jackets and Pants shall be manufactured in the United States.





*** PRICE PROPOSAL FORM ***
JOB NUMBER 12-20-FD
KIRKLAND FIRE DEPARTMENT PROTECTIVE JACKETS AND
TROUSERS FOR STRUCTURAL FIRE FIGHTING
INVITATION FOR BIDS

Bidder Name _____

Bidder shall submit one original sealed bid. If Bidder wishes to submit alternate bids, copy the appropriate bid pages and submit alternate bids.

We agree to furnish the following items F.O.B. Destination, freight prepaid and allowed (included in unit price).

<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>ESTIMATED QUANTITY</u>	<u>UNIT</u>	<u>UNIT PRICE</u>	<u>EXTENDED PRICE</u>
1.	Jacket per the Technical Specifications	60	EA	\$ _____	\$ _____
2.	Trousers per the Technical Specifications	60	EA	\$ _____	\$ _____
				TOTAL	\$ _____

Note: The unit price and extended price are to be shown in the spaces provided. Extended price shall be determined by multiplying the unit price by the quantity.

Prompt Payment Discount _____% _____days, net 30.

Payment discount periods of 20 calendar days or more will be considered in determining lowest responsible bid.

If a **volume discount** is offered, provide the order quantities at which the price break will be given and the corresponding percentage:

Quantity _____ Discount _____%

Quantity _____ Discount _____%

Quantity _____ Discount _____%



SPECIFICATION COMPLIANCE

The bidder certifies below that its bid complies in all respects with the attached specification documents, including the minimum specifications (CHECK YES OR NO BELOW).

YES NO

If NO, list below, in detail, any and all deviations.

LIST DEVIATIONS:

Receipt of Addenda No(s). _____ **is hereby acknowledged.**

Company name

Location or Place Executed: (City, State)

Signature of Authorized Representative

Name and title of person signing

Date

Vendor's Address:

Telephone Number

Fax Number

Email





**CITY OF KIRKLAND
NONCOLLUSION AFFIDAVIT
KIRKLAND FIRE DEPARTMENT PROTECTIVE JACKETS AND TROUSERS FOR STRUCTURAL FIRE
FIGHTING
IFB NO. 12-20-FD**

STATE OF WASHINGTON)
COUNTY OF KING) SS

The undersigned, being duly sworn, on oath deposes and says that the person(s), firm, association, partnership or corporation herein named has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with the project for which this proposal is submitted.

Firm Name

Authorized Signature

Type Name

Title

Sworn to before me, this _____ day of _____, 20__.

Notary Public in and for the State of Washington
Residing at _____
My Commission Expires _____

NOTICE TO ALL BIDDERS

To report bid rigging activities call: 1-800-424-9071

The U.S. Department of Transportation (USDOT) operates the above toll-free "hotline" Monday through Friday, 8:00 a.m. to 5:00 p.m., ET. Anyone with knowledge of possible bid rigging, bidder collusion, or other fraudulent activities should use the "hotline" to report such activities.

The "hotline" is part of USDOT's continuing effort to identify and investigate highway construction contract fraud and abuse and is operated under the direction of the USDOT Inspector General. All information will be treated confidentially and caller anonymity will be respected.





Letter of Agreement

KIRKLAND FIRE DEPARTMENT PROTECTIVE JACKETS AND TROUSERS FOR STRUCTURAL FIRE FIGHTING

This Letter of Agreement ("Agreement") is entered into by and between the City of Kirkland, a municipal corporation, herein called the "City," and **Vendor**, hereinafter the "Supplier".

WHEREAS, the City solicited bids for KIRKLAND FIRE DEPARTMENT PROTECTIVE JACKETS AND TROUSERS FOR STRUCTURAL FIRE FIGHTING on _____; and

WHEREAS, the Supplier submitted the low responsive bid on _____; and

WHEREAS, the Supplier is qualified, willing, and able to provide all items required by the City's Invitation for Bids; and

WHEREAS, the City Council awarded the contract to the Supplier at their meeting of _____, 2020;

NOW, THEREFORE, in accordance with the City's Invitation for Bids and the Suppliers Bid Proposal the following terms and conditions are agreed to:

CONTRACT: The contract consists of the following documents: This Agreement, the Invitation for Bids (IFB), the accepted bid, any purchase orders issued by the City and any agreed upon written changes to any of the foregoing documents. The contract documents are complimentary and what is called for in any one document shall be binding as if called for by all.

CONTRACT TERM AND PRICE CONDITIONS: The initial contract shall be for a term of two years, commencing on the date this Agreement is fully executed, and shall include a renewal option of two additional one-year periods, at the discretion of the City. Pricing provided in the bid proposal shall be firm and fixed for the term of the initial contract. Price adjustments for the additional one-year renewal periods can be agreed upon and made prior to executing renewal agreements.

COOPERATIVE PURCHASING: RCW 39.34 allows cooperative purchasing between public agencies in the State of Washington. Public agencies which have filed an Intergovernmental Cooperative Purchasing Agreement with the City of Kirkland may purchase from City of Kirkland contracts. The City of Kirkland does not accept any responsibility for purchase orders issued by other public agencies.



COMPLIANCE WITH LAWS: The Supplier shall comply with all applicable federal, state and local laws, rules, and regulations, affecting its performance and hold the Purchaser harmless against any claims arising from the violation thereof.

NONCOLLUSION: The Supplier has certified that their firm has not entered into any agreement of any nature whatsoever to fix, maintain, increase or reduce the prices or competition regarding the items covered in this Invitation for Bids.

PAYMENT TERMS: Net 45 days after delivery, acceptance and receipt of invoice. Acceptance includes inspection and approval by City Fire Department staff.

FREIGHT TERMS: Quoted price is to include delivery to designated locations. Shipping will be FOB destination and include delivery and installation.

NON-DISCRIMINATION: The City of Kirkland requires that no person shall, on the grounds of race, religion, color, national origin, sex, age, marital status, political affiliation, sexual orientation, or the presence of any sensory, mental or physical disability be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity. The City of Kirkland further assures that every effort will be made to ensure non-discrimination in all of its programs and activities, whether those programs are federally funded or not.

In addition to nondiscrimination compliance requirements, the firm ultimately awarded a contract shall comply with federal, state and local laws, statutes and ordinances relative to the execution of the work. This requirement includes, but is not limited to, protection of public and employee safety and health; environmental protection; waste reduction and recycling; the protection of natural resources; permits; fees; taxes; and similar subjects.

IN WITNESS WHEREOF, the parties hereto have executed this Letter of Agreement on the dates written below:

SUPPLIER:
By: _____
Name: _____
Title: _____
Date: _____

CITY OF KIRKLAND:
By: _____
Tracey Dunlap, Deputy City Manager
Date: _____

