

Lori Hendricks
Wagoner County Clerk



307 E. Cherokee St.
Wagoner, OK 74467
918.485.7716
Fax 918.485.7718

Invitation to Bid

The Board of County Commissioners, Wagoner County, Oklahoma is seeking sealed bids for Two (2) or more Sets of Bunker Gear (to include Bunker Jackets and Pants, Boots, Helmets and Gloves) for the Wagoner Fire Department. Although Wagoner Fire Department is requesting the bid, other Wagoner County Fire Departments may purchase additional gear from this bid.

Bid #2016-06

Date Published: September 2, 2015 (Wagoner Tribune)

Bidding Period Closing Date and Hour: September 18, 2015 @ 4:00 PM

Sealed Bid Opening Date and Hour: September 21, 2015 @ 9:00 AM in the Commissioners' Meeting Room

Requesting Authority: Wagoner Fire Department

Bid submissions are to be: Addressed to:
Wagoner County Purchasing Agent
P O Box 156
Wagoner, OK 74477

Delivered to:
Wagoner County Purchasing Agent
307 E Cherokee
Wagoner, OK 74467

Please review the attached Terms and Conditions pertaining to the submission of this bid.

Please pay particular attention to Item 1 of the Terms and Conditions. This item specifies how the bid envelopes are to be identified to prevent inadvertent or premature opening of sealed bids. Your compliance will ensure consideration of your bid by the awarding body. Late bids will not be considered.

Included in this packet is an Affidavit for Filing with Competitive Bid and a Business Relationship Affidavit which must be signed and submitted as part of the bid.

This packet contains:

1. Invitation to Bid
2. Terms and Conditions for Bidding
3. Affidavit for Filing with Competitive Bid
4. Business Relationship Affidavit
5. Specifications
6. Bid Form

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TERMS AND CONDITIONS

THESE ITEMS APPLY TO AND BECOME A PART OF THE BID
NO EXCEPTIONS TO THESE TERMS AND CONDITIONS WILL BE CONSIDERED

1. Bids must be submitted on the included form only. Each bid shall be placed in a separate envelope. Be sure the envelope is completely and properly identified and sealed, showing the bid name and number in the lower left hand corner.
2. All bids shall be entered on the Bid Form enclosed or a copy thereof. Bids are to be typewritten or in ink. No bidder may withdraw his proposal for a period of thirty (30) days after the date and hour set for the opening of bids.
3. The bidder shall attach the manufacturer's name of the equipment or material to be furnished, type, model numbers, manufacturer's descriptive bulletins and specifications. All guarantees and warranties should be clearly stated. This data shall be in sufficient detail to describe accurately the equipment or material to be furnished. Manufacturer's specifications, in respect to the successful bidder, shall be considered as part of the contract with Wagoner County.
4. Any exceptions or deviations from written specifications shall be identified in writing and attached to the bid form.
5. The enclosed Affidavit for Filing with Competitive Bid and Business Relationship Affidavit MUST be returned with the bid.
6. Wagoner County reserves the right to reject any and all bids and to waive any technicalities in the bidding.
7. Direct purchase of certain items of equipment or material by Wagoner County is exempt from Federal Excise Tax and Oklahoma Sales Tax. In such cases, the bidder shall quote prices which do not include Federal Excise Tax and Oklahoma Sales Tax.
8. Bid must show number of days required for delivery under normal conditions. Contractor must keep the County advised at all times of the status of the order. For any exception to the delivery date as specified on this order, vendor shall give prior notification and obtain written approval from the Purchasing Agent. Default in promised delivery date, or failure to meet specifications, authorizes the County to purchase supplies elsewhere and charge the full increase of cost and handling to defaulting contractor.
9. Bidder agrees to defend and save Wagoner County from and against all demands, claims, costs expense, damage and judgments based upon infringement of any patent to goods specified in this order or the ordinary use or operation of such goods by the County or use or operation of such goods in accordance with the bidder's direction.

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-
10. Bid price is to be held firm through March 31, 2015.
 11. This bid is for the Wagoner Fire Department, but other Wagoner County Fire Departments may make additional purchases from this bid.

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BUSINESS RELATIONSHIP AFFIDAVIT

_____ (PROJECT NAME)

STATE OF OKLAHOMA)

)SS

COUNTY OF _____)

_____, of lawful age, being duly sworn, on oath says that he or she is an agent authorized by the bidder to submit the attached bid. Affiant further states that the nature of any partnership, or other business relationship presently in effect, of which existed within one (1) year prior to the date of this statement with the architect, engineer, or other party to the project is as follows:

Affiant further states that any such business relationship presently in effect of which existed within one (1) year prior to the date of this statement between any officer or director of the bidding company and any officer or director of the architectural or engineering firm or other party to the project is as follows:

Affiant further states that the names of all persons having any such business relationships and the positions they hold with their respective companies or firms are as follows:

(If none of the business relationships herein above mentioned exist, affiant should so state.)

(Signature of Affiant)

Subscribed and sworn to before me this _____ day of _____, 20____

Notary Public _____

My Commission Expires _____

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**INSTRUCTIONS FOR BIDDERS
WAGONER FIRE DEPARTMENT**

Every bidder is required to bid every item on list. Bidder shall provide manufacturer specification sheet on each item bid if requested. Example: Bunker coat, bunker pants, boots and helmet. Pricing shall be submitted per item, pair, set, and section.

All items bid shall have shipping cost included. Shipping address to be used for all items is:
Wagoner Fire Department, 807 W Cherokee, Wagoner OK 74467

All forms provided must be completed and returned with bid!!

Exceptions to specifications:

Any and all exceptions to the enclosed specifications must be marked √ exception. Then bidder must provide description of replacement items, additional pages may be used for exceptions, if necessary. Training shall be provided on any item bid, if requested by Wagoner Fire Department Fire Chief or Training Officer.

Bidding Company Name: _____

Bidding Company Address: _____

Contact Name: _____

Contact Telephone: _____

Authorized Signature: _____

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**GENERAL SPECIFICATIONS
PROTECTIVE JACKET AND PANTS
FOR STRUCTURAL FIRE FIGHTING**

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: Relaxed and Regular Note: Relaxed is a fuller cut in the hips and thighs, like relaxed jeans.
Inseam: Even sizes

Jackets:

Gender: Gender specific Men's and Women's patterns will be available.
Chest: Even sizes
Back Length: Men's 29", 32", 35", 40"
 Women's 26", 29"
Body Shape: Straight and Tapered Note: The straight cut offers more fullness at the hips (i.e. jacket sweep) and is recommended when an IH Ready trouser is being specified.
Sleeve: 1" 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 "ADVANCE™" 60/40 Kevlar®/Nomex® blend material with an approximate weight of 7.0 oz. per square yard in a rip stop 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 khaki. **Bids offering this shell material without the SST™ will not be considered.**

_____Comply _____Exception

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The thermal liner shall be constructed of 7.6 oz. per square yard TENCATE "CALDURA[®] SL2i"; 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. A 7 inch by 9 inch pocket, constructed of self material and lined with moisture barrier material, shall be affixed to the inside of the jacket thermal liner on the left side by means of a lock stitch. 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. Further mention of "Thermal Liner" in this specification shall refer to this section. *NOTE: This thermal liner MUST be used exclusively with a minimum 7 oz. per square yard outer shell material or with Crosstech 4A moisture barrier.*

Comply Exception

MOISTURE BARRIER - JACKETS AND PANTS

The moisture barrier material shall be W.L.GORE "GORE[™] RT7100 Type 3D" moisture barrier which shall be GORE PTFE on a non-woven Nomex[®] substrate with an approximate weight of 4.6 oz. per square yard. The GORE PTFE Type 3D moisture barrier product incorporates GORE PTFE technology, with enhanced bicomponent technology and shall be laminated to a non-woven substrate. This alternative product is intended as a thermally stable alternate to NFPA compliant polyurethane-based moisture barriers. The moisture barrier shall be sewn to the thermal liner at the edges only and bound with bias-cut neoprene-coated cotton/polyester binding. 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. Two strips of 5/8 inch wide FR Velcro[®] fastener tape 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 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. 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. 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 shall be color coded to a corresponding snap tab in the liner for ease of matching the liner system to the outer shell after inspection or cleaning is completed.

Comply Exception

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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. Stitching in all seams shall be continuous. 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 jackets 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. The thermal liner shall have a single inverted pleat located at the upper middle of the back, corresponding to the added length in the shell provided by the AXTION[®] back pleats. It will be designed to expand with the outer shell pleats to provide maximum expansion. The moisture barrier 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 of the moisture barrier, outside of the SCBA straps and work together with the outer shell and the thermal liner 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 right 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

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DRAG RESCUE DEVICE (DRD)

A Firefighter Drag Rescue Device shall be installed in each jacket. The ends of a 1½ inch wide strap, constructed of black Kevlar® with a red Nomex® center stripe, will be sewn together to form a continuous loop. The strap will 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 will be covered by an outside flap of shell material, with beveled corners 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 thermal liner and moisture barrier shall be completely removable from the jacket shell. Two strips of ½ inch wide FR Velcro® fastener tape shall secure the thermal liner/moisture barrier to the outer shell along the length of the neckline under the collar. This opening shall run the full length of the collar for the purpose of inspecting the inner surfaces of the jacket liner system. The remainder of the thermal liner/moisture barrier shall be secured with a minimum of four snap fasteners appropriately spaced on each jacket facing and four Ara-Shield® snap fasteners at each sleeve end. The outside perimeter of the AXTION® liner moisture barrier and thermal liner layers shall be bound together along the side and bottom edges with a bias-cut neoprene coated cotton/polyester binding for a finished appearance that prevents fraying and wicking of contaminants. Stitching used to secure the thermal liner and moisture barrier in place of the neoprene shall not be considered, since stitching is not able to provide the same level of abrasion resistance.

_____ Comply _____ Exception

SEPARATING LINER SYSTEM (JKT)

The combined moisture barrier and the thermal liner shall be completely removable from the jacket. The thermal liner and moisture barrier layers of the AXTION® liner system shall be constructed in such a way as to allow the layers to separate for improved air flow, drying and interior service and replacement. The thermal liner and moisture barrier layers shall be stitched together at the sleeve cuff ends and hem of the rear body panels only. The leading edges and hem of the left and right front body panels of the thermal liner and moisture barrier layers shall fasten together with snap fasteners. The snap fasteners shall be evenly spaced along the opening edge of the layers and set in bias-cut reinforcement fabric. The neck area of the liner system shall attach up inside the outer shell collar with two strips of ½ inch wide FR Velcro® fastener tape on the front and rear of the collar. Loop fastener tape installed along the neck of the thermal liner will secure to hook fastener tape installed along the front inside edge of the top collar. Hook fastener tape installed along the neck of the moisture barrier layer of the liner system will extend upward into the underside of collar and attach to the loop fastener tape installed along the full length of the inside back layer of the collar. The outside perimeter of the AXTION® liner moisture barrier and thermal liner layers shall be bound with a bias-cut neoprene coated cotton/polyester binding for a finished appearance that prevents fraying and wicking of contaminants. Stitching used to secure the thermal liner and moisture barrier in place of the neoprene shall not be considered, since thread along is not able to provide the same level of abrasion resistance.

_____ Comply _____ Exception

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RETROREFLECTIVE FLUORESCENT TRIM

The retroreflective fluorescent trim shall be lime/yellow 3M Scotchlite™ Triple Trim (L/Y borders with silver center). Each jacket shall have an adequate amount of retroreflective fluorescent trim affixed to the outside of the outer shell to meet the requirements of NFPA 1971 and OSHA. The trim shall be in the following widths and shall be **NYC style**; 3 inch wide stripes - around the bottom of the jacket within approximately 1 inch of the hem, around the back and chest area approximately 3 inches below the armpit, around each sleeve below the elbow, around each sleeve above the elbow.

_____ 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. A 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

LETTER PATCH

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 Velcro® hook & loop fastener tape. Each Hanging Letter Patch shall have 3" lime/yellow Scotchlite lettering reading: Last Name of each firefighter.

_____ Comply _____ Exception

COLLAR & FREE HANGING THROAT TAB

The collar shall consist of a four-layer construction and be of two-piece design. The collar shall have a minimum of 3 rows of quilting. The outer layers shall consist of outer shell material, with a minimum of two-layers of specified moisture barrier sandwiched in between (see Moisture Barrier section). The rear inside ply of moisture barrier shall be sewn to the collar's back layer of outer shell at the edges only. The forward inside ply of moisture barrier shall be sewn to the inside of the collar at the edges only. The multi-layered configuration shall provide protection from water and other hazardous elements. The collar shall be of two piece design with the left and right halves of all component materials joined in the center by stitching, thereby permitting the collar to retain its proper shape and roll. The collar shall be minimum 3½ inches high and graded to 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's back layers of outer shell and moisture

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barrier shall be joined to the body panels with two rows of stitching. Inside the collar, above the rear seam where it is joined to the shell shall be a strip of $\frac{5}{8}$ inch wide FR Velcro[®] hook fastener tape running the full length of the collar. The collar's front layers of moisture barrier and outer shell shall have an additional strip of $\frac{5}{8}$ inch wide hook fastener tape stitched to the inside lower edge and running the full length of the collar. These two inside strips of $\frac{5}{8}$ inch wide FR Velcro[®] hook fastener tape sewn to the underside of the collar shall engage corresponding pieces of FR Velcro[®] loop fastener tape at the front and back neck area of the liner system. The throat tab shall be a scoop type design and constructed 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 Velcro[®] hook and loop fastener tape. The FR Velcro[®] hook and loop fastener tape shall be oriented to prevent exposure to the environment when the throat tab is in the closed position. Two $1\frac{1}{2}$ inch by 3 inch pieces of FR Velcro[®] loop fastener tape shall be sewn vertically to the inside of each end of the throat tab. Corresponding pieces of FR Velcro[®] 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 Velcro[®] hook fastener tape shall be sewn horizontally to the inside of the throat tab immediately under the $1\frac{1}{2}$ inch by 3 inch pieces of FR Velcro[®] loop fastener tape. The collar closure strap shall fold in half for storage with the FR Velcro[®] loop fastener tape engaging the FR Velcro[®] 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 3 inches wide, extend from collar to hem, and be double stitched to the underside of the outer shell at the leading edges of the front body panels. A breathable moisture barrier material shall be sewn to the 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 $\frac{3}{4}$ " 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 Velcro[®] outside closure; aka #7C) wide and a minimum of 23 inches long (based on a 32" 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 bartacks.

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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 Velcro[®] 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 facings. The storm flap shall close over the left and right jacket body panels and shall be secured with FR Velcro[®] fastener tape. A 1½ inch piece of FR Velcro[®] 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 Velcro[®] 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

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 3 inches deeper than the pocket expansion and ½ inch wider than the pocket. The upper pocket corners shall be reinforced with proven backtacks and pocket flaps shall be reinforced with bartacks. The pocket flaps shall be closed by means of FR Velcro[®] fastener tape. Two pieces of 1 ½ inch by 3 inch FR Velcro[®] 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 Velcro[®] 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.

_____ 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

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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 impermeable barrier 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 Velcro[®] 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 barrier 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 over edging. Raw or unfinished edges shall be considered unacceptable. Thermal scraps shall not be substituted for full-cut fabric padding.

_____ Comply _____ Exception

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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 7 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 over edging. 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

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 5 inches deep and ¼ inch wider than the pocket. The pocket flap shall be closed by means of FR Velcro® fastener tape. A 1½ inch by 3 inch piece of FR Velcro® 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 Velcro® 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 impermeable barrier 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 ___ inches deep by ___ inches wide by ___ inches high and shall be installed on the left chest.

_____ Comply _____ Exception

MICROPHONE STRAP

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 above the radio pocket and shall be constructed of double layer outer shell material.

_____ Comply _____ Exception

SURVIVOR FLASHLIGHT HOLDER

Each jacket shall be equipped with a "Survivor" flashlight holder. An inward facing metal safety coat hook shall be triple riveted in a vertical position to the upper chest. The inward facing coat hook will accommodate the clip portion of the flashlight. Below the coat hook will be a strap constructed of outer shell material measuring approximately 2½ inches high and 9 inches wide, and will hold the barrel of the flashlight. The lower strap will be equipped with a 1½ inch by 2½ inch FR Velcro® closure at the front of the strap to facilitate easy removal of

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the flashlight. There shall be approximately 3 inches between the upper coat hook and lower strap. The "Survivor" flashlight holder shall be sewn to the jacket on the right chest.

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

PANT CONSTRUCTION

BODY

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 will 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 will 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

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 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 will be graded to size. This feature in combination with other design elements will maintain alignment of the knee directly over the knee pads when kneeling and crawling.

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 at the front fly for security and prevention of inadvertent use of one layer without the other. The liner system shall have a reinforcement of black Nomex[®] twill webbing sewn to the bottom of the fly opening. This reinforcement will 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 a full length opening along the entire waistline for ease in inspecting the inner layers as well as performing the complete

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Liner Inspection. The thermal liner and moisture barrier shall be individually bound with a neoprene coated bias cut tape, and joined together with a snap at the center back. There shall be a minimum of 4 snap tabs sewn to the underside of the waistband, with corresponding snaps in the moisture barrier layer to secure the barrier to the shell. As described previously, the pant thermal layer 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

SEPARATING LINER SYSTEM (PANT)

The thermal liner and moisture barrier layers shall fasten together at the waist with snap fasteners and at the cuffs with full circumference FR Velcro[®] hook & loop fastener tape and two snap fasteners. The snap fasteners shall be evenly spaced along the openings and set in bias-cut neoprene reinforcement fabric. The waist and cuff perimeters of the moisture barrier and thermal liner layers shall be bound along the edges with a neoprene coated cotton/polyester binding for a finished appearance that prevents wicking of contaminants.

Comply Exception

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[™] Triple Trim (L/Y borders with silver center). 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. . 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

ELASTICIZED WAISTBAND

The pant design facilitates the transfer of the weight of the pant to the hips instead of the shoulders and suspenders. The two rear outer-shell body panels, beginning at the pant side seams, shall incorporate an elasticized waistband. The rear elasticized waistband shall be integral to the shell of the pant and the elasticized portion shall be covered in an aramid fabric. The waist area of the pants shall incorporate an independent stretch waistband on the inside with a separate piece of black aramid outer shell material cut on the bias (diagonally) measuring not less than 2 inches in width. Neoprene coated cotton/polyester shall be sewn to the back of the waistband as a reinforcement to create a three-layer protection. 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 serged and unattached to the shell to accept the thermal liner and moisture

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barrier. The top of the thermal liner and moisture barrier shall be secured to the underside of the waistband reinforcement so as to be sandwiched between the waistband reinforcement and outer shell to reduce the possibility of liner detachment while donning and to avoid pass through of snaps from the outer shell to the inner liner. The independent waistband construction affords greater comfort and fit than a turned and stitched method. Pants that do not include an independent waistband only serve to save the manufacturer both money and labor and shall be considered unacceptable.

_____ Comply _____ Exception

EXTERNAL / INTERNAL FLY FLAP

The pants will 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 2 ½ 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 Velcro® 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 Velcro® 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

BELT

Each pant shall include a 2 inch wide black aramid belt with an adjustable hi-temp thermoplastic buckle serving as the exterior primary positive locking closure. Sizing adjustments shall be provided by a self locking 2 inch thermoplastic buckle; this buckle shall also provide a quick-release mechanism for donning and doffing. The belt shall be attached to the two front body panels of the pant beginning at the side seams. The belt shall run through tunnels constructed of black 7½ oz aramid outer shell material protecting it from damage. The tunnels will begin at the side seams and terminate at the front of the pant exposing the buckle. A single belt loop constructed of a double layer of black 7½ oz aramid measuring approximately ½ inch by 3 inches shall be attached to the topside of the right side tunnel. The belt loop will be located approximately 2 inches from the tunnel opening for storage of the belt tab.

_____ 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 will 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 pleats per leg in the front of the knee. Two will be located above the knee (one on each side) and two will

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be located below the knee (one on each side). On the moisture barrier, the system will 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 pleats and 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, will 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 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. The knee reinforcement specified shall be removable without opening up any seams of the outer shell of the pant. Knee reinforcements of a smaller size do not provide the same protective coverage and shall be considered unacceptable.

_____ Comply _____ Exception

PADDING UNDER KNEE REINFORCEMENTS

Padding for the knees shall be accomplished with one layer of **Silizone[®]** foam sewn to the liner, sandwiched between the thermal liner and moisture barrier.

_____ Comply _____ Exception

EXPANSION (BELLOWS) POCKETS

An expansion pocket, measuring approximately 2 inches deep by 10 inches wide by 10 inches high shall be double stitched to the side of each leg straddling the outseam above the knee and positioned to provide accessibility. *The lower half of each expansion pocket shall be reinforced with an additional layer of Kevlar[®] twill material on the inside.* Two rust resistant metal drain eyelets shall be installed on the underside of each expansion pocket to facilitate drainage of water. The pocket flaps shall be rectangular in shape, constructed of two layers of outer shell material and shall measure 3 inches deeper than the pocket expansion and ½ inch wider than the pocket. The upper pocket corners shall be reinforced with proven backtacks and pocket flaps shall be reinforced with bartacks. The pocket flaps shall be closed by means of FR Velcro[®] fastener tape. Two pieces of 1½ inch by 3 inch FR Velcro[®] hook fastener tape shall be installed

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vertically on the inside of each pocket flap (one piece on each end). Two corresponding pieces of 1½ inch by 3 inch FR Velcro® 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.

_____ 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 will be four attachments total – 2 front, 2 back. The suspender attachments shall be constructed of a double layer of black aramid measuring approximately ½ inch wide by 3-inches long. They shall be sewn in a horizontal position on the ends only to form a loop. The appearance will 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 will be padded for comfort by fully encasing the webbing with aramid batting and wrap-around black aramid. The rear ends of the suspenders will 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 will 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 will 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 will then fold over and attach to themselves securing the suspender to the pants.

_____ Comply _____ Exception

REVERSE BOOT CUT

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The outer shell pant leg cuffs will be constructed such that the back of the leg is approximately 1 inch shorter than the front. The liner will 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 will minimize the chance of premature wear of the cuffs and injuries due to falls as a result of "walking" on the pant cuffs. Pants that have "cut-outs" in the back panel rather than a contoured boot cut shall be considered unacceptable.

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 label.

Comply Exception

LABELS

Appropriate warning label(s) shall be permanently affixed to each garment. Additionally, the label(s) 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

BETTER BUSINESS BUREAU:

The manufacturer is accredited by the Better Business Bureau, showing a commitment to ethical and principled business practices.

Comply Exception

WARRANTY:

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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.

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

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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.

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General Specifications for Structural Fire Fighting 14" Pull-On Boots

NFPA 1971 and NFPA 1992 Compliant

Meets or exceeds NFPA 1971, *Standard on Protective Ensembles for Structural Firefighting and Proximity Firefighting, 2013 Edition* for Structural Fire Fighting and NFPA 1992, *Standard on Liquid Splash-Protective Ensembles and Clothing for Hazardous Materials Emergencies, 2012 Edition*.

_____ Comply _____ Exception

General Design

14" Pull-On athletic footwear (cement construction) boot, black flame-resistant and water-resistant leather, double-stitched leather joining seams, hi-vis yellow and silver reflective trim, leather-trimmed webbing pull straps, padded leather collar, padded leather flex joints in the shaft above vamp and heel, liquid and chemical resistant breathable bootie liner, cut-resistant and thermal protective bootie-shield liner, composite safety toe cap, composite shank, composite penetration-resistant insole barrier, molded shin guard, flame-resistant synthetic rubber molded cup outsole and toe bumper, 3D lasting board, molded heel counter, internal heel fit system, and removable molded footbeds including a second thicker pair.

_____ Comply _____ Exception

Slip Resistance

Boots must exceed the minimum test values for slip resistance (average of left and right foot) as detailed below to provide superior performance in dry, wet, and frosted ice conditions. Boots that do not exceed these minimums in all conditions shall not be acceptable. Bidders must promptly supply a Technical Services Report from a recognized independent testing laboratory upon request showing the boots bid exceed this requirement.

Test Method: SATRA TM144:2011
Slip Resistance of Footwear and Floorings

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	Load = 500 N
Dry Clay Quarry Tile:	Forepart = 1.00
	Heel = 0.90
Wet Clay Quarry Tile:	Forepart = 0.60
	Heel = 0.60
Frosted Ice:	Forepart = 0.25
	Heel = 0.20

For maximum slip resistance each outsole shall have Siping lines. Siping lines cut into flat areas open up when flexed to provide additional traction on water and ice. The boot shall also include self-cleaning lugs and an omni-direction tread pattern designed for superior performance in all terrains and when working on ladders.

_____Comply _____Exception

Flexibility

Boots must reach the Maximum Flex Angle of 50 degrees without exceeding the critical bending moment with a resulting stiffness index not to exceed 10.0 as detailed below to provide maximum flexibility. Boots that do not meet this requirement shall not be acceptable. Bidders must promptly supply a Technical Services Report from a recognized independent testing laboratory upon request showing the boots bid meet this requirement.

Test Method: SATRA TM194:2004

Longitudinal stiffness of footwear

_____Comply _____Exception

FireStorm Leather

Boots shall be made from heavy-duty, flame-resistant and water-resistant full-grain cattle hide leather measuring 2.0 – 2.2 mm of thickness for durable tear and puncture resistance. Tumbled full-grain cattle hide leather shall be utilized in collar and flex areas for mobility. The leather shall be chrome tanned to withstand high temperature with minimal shrinkage, re-tanned to impart water resistance and low water absorption, and finished to retain maximum breathability. Leather shall meet or exceed the following physical tests:

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Water Penetration	ASTM D2099	15,000 flex minimum
Dynamic Water Absorption	ASTM D2099	15% maximum
Static Water Absorption	ASTM D6015	30% maximum
Slit Tearing Strength	ASTM D2212	0 pound minimum
Moisture Vapor Transmission	ASTM D5052	350 g/meter ² /24 hours minimum
Flame Resistance	NFPA 1971	afterflame no more than 2.0 sec, not melt or drip, no burn through

_____Comply _____Exception

Footwear Fabric

A full-height, full sock, bootie liner made from a package of Omaha lining fabric, 300g felt insulation, and moisture barrier shall be provided for a waterproof and breathable moisture barrier as well as thermal protection as defined by the specified NFPA standards.

_____Comply _____Exception

Athletic Footwear (Cement) Construction

For optimum flexibility and comfort, boot shall include a Synthetic Rubber Contoured Cup Outsole cemented to the bottom and sides of the upper using a 2-part cross-linking adhesive that forms a bond stronger than the materials it attaches. The outsole must be made from a flame, abrasion, oil, acid, and slip resistant compound engineered for high-traction, cold-weather resistance, and durability. Goodyear welt or direct attach construction methods shall not be acceptable.

_____Comply _____Exception

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Bootie-Shield Liner

A protective bootie-shield of KEVLAR® fiber blend stitchbonded non-woven batting weighing 4.0 oz/yd² shall be positioned between the leather shell and the moisture barrier bootie to provide abrasion and cut resistance and additional thermal protection. Boots that do not have an additional Flame Resistant (FR) protective bootie-shield between the leather shell and the moisture barrier bootie shall not be acceptable.

_____ Comply _____ Exception

Composite Safety Toe Cap

The safety toe shall consist of a composite material that is lighter than steel, doesn't transmit heat or cold, and will spring back to shape after impact. Must exceed NFPA standards for safety. Metal toe caps shall not be acceptable.

_____ Comply _____ Exception

Composite Penetration Resistant Insole Barrier

Penetration resistance shall be provided by a composite insole to maximize flexibility and insulate from heat or cold transmission. Must exceed NFPA standards for safety. Metal plates shall not be acceptable.

_____ Comply _____ Exception

3D Composite Lasting Board

Boot uppers shall be lasted to a molded and contoured dual-density lasting board with a built-in flex zone in the forefoot and a torsionally stable heel.

_____ Comply _____ Exception

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Composite Shank

The shank shall consist of a composite material that is lighter than steel, doesn't transmit heat or cold, and springs back to shape better. Metal shank shall not be acceptable.

_____ Comply _____ Exception

Molded Heel Counter

Boots shall have a molded heel counter of water-resistant composite material individually molded to fit each size perfectly. Leather or fiber board heel counters shall not be acceptable.

_____ Comply _____ Exception

Padded Shin Guard

Boots shall include a padded polymer shin guard to provide extra protection when working on a ladder. Moisture absorbing natural fiber padding shall not be acceptable.

_____ Comply _____ Exception

Synthetic Rubber Toe Bumper

Boots shall have a molded Flame Resistant (FR) synthetic rubber toe bumper to provide abrasion resistance when crawling. The toe bumper shall be cemented and 2-needle stitched to the vamp.

_____ Comply _____ Exception

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Reflective Material

Boots shall have flame-resistant fluorescent yellow and silver reflective material sewn to both sides of the shaft for added visibility.

_____ Comply _____ Exception

Webbing Pull-Straps

Boots shall have NOMEX[®] webbing pull-straps with leather trim securely attached to the leather uppers by inserting into to collar seam to minimize stitching through the leather. Pull strength must be a minimum of 120 lbs when tested with a single handle.

_____ Comply _____ Exception

Internal Fit System

Boots shall have an anatomical foam insert that wraps around the top and sides of the heel with an opening to fit and hold the back of the heel securely while cushioning the ankle.

_____ Comply _____ Exception

3D Molded Footbed

Boots shall have a removable urethane foam footbed contoured to cradle and cushion the bottom of the foot and to provide arch support. The footbed shall have a moisture-wicking and anti-microbial fabric top layer.

_____ Comply _____ Exception

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Custom Fit System

Boots shall include a second pair of 3D molded footbeds that are thicker in the forefoot to provide a snugger fit if needed.

_____Comply _____Exception

Sizes

Boots must be available in Men's 5 – 16 (full and half sizes), 17 – 18 (full sizes only) in Narrow, Medium, Wide, and X-Wide widths. Boots must also be available in a Wide Calf model in the same size range that shall provide an additional 3 inches in circumference at the calf to fit those with larger calves. Boots must be available in Women's 5 – 12 (full and half sizes) in Narrow, Medium, Wide, and X-Wide widths.

_____Comply _____Exception

Resoling Service

The winning vendor shall have resoling services available at their factory as needed.

_____Comply _____Exception

Country of Origin

Boots shall be manufactured in the United States.

_____Comply _____Exception

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General Specifications for Structural Firefighter Helmets

	Comply? Y or N
Certified to meet or exceed NFPA 1971	_____
Through color fiberglass composite shell matte finish	_____
Impact cap	_____
Shell release system	_____
Retractable eye protection visor stores securely inside helmet shell	_____
Adjustable ratchet height	_____
Adjustable headband height	_____
D ring helmet anger	_____
Nomex chinstrap	_____
Front holder carved brass Eagle	_____
List other options and prices	

Lori Hendricks
Wagoner County Clerk



307 E. Cherokee St.
Wagoner, OK 74467
918.485.7716
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General Specifications for Structural Firefighting Glove

The glove shall meet or exceed the requirements of the NFPA 1971 – 2013 Edition Standard on Protective Ensemble for Structural Firefighting.

Certifying Agent: Safety Equipment Institute McClean, VA.

DESIGN AND FEATURES: The glove has a varied layer construction with reinforcement added specifically where needed according to the risk levels at different areas of the hand. This varied layer construction also allows for extreme flexibility which in turn reduces hand fatigue, all of which enhances dexterity, grip, tactility and comfort.

Five-fingered keystone thumb construction. The back side of the glove features a flexible multi-layer knuckle guard across the entire width at the main knuckle. Seamless roll-over finger-tip construction for enhanced tactility.

Gathered stitching is used around the entire wrist for a secure fit and to prevent debris from entering. The Long Cuff “wristlet” style has a Kevlar wrapped elastic band around the inside cuff edge to secure the fit and prevent fire ground debris from entering; specifically for use with turnout jackets that do not have thumb wristlets.

The glove inner liners are sewn in and bonded at each fingertip for maximum retention and efficient wet don and doff.

A leather hang-up loop is provided on the glove inside for easy drying and storage.

MATERIALS AND LAYERING: The **palm side** outermost layer is water repellant goat skin suede tanned to resist cracking, peeling, and stiffening and to provide a sure grip when wet. This layer is stitched down across the entire palm area to enhance grip by preventing bunch up of the glove multiple layers.

The suede at the ring finger, middle finger and thumb are cut and sewn separately for enhanced flexibility.

The second palm side layer is cut and puncture resistant 60% Kevlar/40% Nomex knit which runs the full length from the finger tips to the cuff edge. Underneath that, the ring and middle fingers have an additional layer of 100% modacrylic knit.

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The **back side** outer layer is mainly water repellant goat skin suede which covers the fingertip area, a 1" wide welt across the entire finger crotch area and the cuff area from cuff edge to the knuckle guard edge.

The second and third layers are knitted 100% Kevlar and knitted 100% modacrylic that both extend from the finger tips to the cuff edge and represent the back of thumb layers as well.

The flexible knuckle guard section is constructed additionally with two layers of wafers made of the industrial abrasive silicon carbide - each laminated to two layers of 100% Kevlar knit and backed entirely with an additional layer of 100% Kevlar knit.

The finger side walls are comprised of a 60% Kevlar/40% Nomex knit reinforced with a layer of 100% modacrylic knit.

The glove is lined with a highly breathable fire retardant finish polyurethane moisture barrier that is itself certified compliant to NFPA 1971-2013. The barrier is sealed around the perimeter to prevent liquid penetration from the NFPA test chemicals, blood borne pathogens and water. No stitching shall penetrate this barrier membrane and it shall remain flexible in subzero temperatures.

The glove innermost liner is flame resistant 100% modacrylic laminated mesh knit specifically designed to reduce friction during don and doff.

100% Kevlar high burst thread is used throughout the gloves and a hi-visibility reflective strip runs across the back side wrist area.

SIZING: Available in XX Small, X Small, Small, Medium, Large, X Large, XX Large, and XXX Large.

Available in Short Cuff (Gauntlet) and Long Cuff (Wristlet).

_____ Comply

_____ Exceeds

_____ Exception

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BID FORM
INVITATION FOR SEALED BIDS FOR
BUNKER GEAR

DATE AND TIME OF OPENING: _____

Bidder agrees to furnish Wagoner County with TWO OR MORE SETS OF BUNKER GEAR per Attached Specifications.

PRICE FOR ONE JACKET: \$ _____

PRICE FOR ONE PAIR PANTS: \$ _____

PRICE FOR ONE PAIR BOOTS: \$ _____

PRICE FOR ONE HELMET: \$ _____

PRICE FOR ONE PAIR GLOVES: \$ _____

The undersigned acknowledges receipt of the following Addenda. (Give number and date of each):

Delivery will be available in not more than _____ days after receipt of order.

I have examined the terms and specifications and instructions to bidders herein, and agree, provided I am awarded a contract, to provide the above described items for the sum shown in accordance with the terms and specifications stated herein. All deviations are in writing and attached hereto.

MUST BE SIGNED BY AUTHORIZED AGENT TO BE VALID

SIGNATURE: _____

PRINTED NAME: _____

TITLE: _____ FIRM NAME: _____

ADDRESS: _____

PHONE NO: _____ DATE: _____