



**BID INVITATION No. 015-010**  
**Opening Date: November 9, 2015**  
**Time: 10:00 a.m.**

City of Prattville  
Attn: City Clerk  
101 West Main Street  
Prattville, AL 36067

Pursuant to the Sections 41-16-50 through 41-16-63, *Code of Alabama 1975*, as Amended, sealed bids will be received by the City Clerk's Office of Prattville, Alabama, until the above date and time. Bids will be opened and read aloud at the above referenced address for the following item(s):

10/26/2015  
DATE

  
PURCHASING AGENT

Each sealed bid envelope must include two (2) originals of Bid Invitation, including Bid Specifications, and show the Bid Invitation Number, Date/Time of Bid Opening, and Company's Name and Address on the outside of the envelope. If State Code requires bidder to have a certification/license to complete the bid requirements by either type of work or dollar amount, the bidder shall include a copy of the certification/license with the bid and include the certification/license number on the outside of the sealed bid envelope. Each numbered bid must be in a separate envelope. If the company employs persons in the State of Alabama, include documentation that the company is enrolled in the E-Verify program. Enclose a signed and completed W-9 Request for Taxpayer Identification Number & Certification with bid response. If available, bidders are requested to include an electronic copy of the bid proposal in Adobe PDF format. Bidders are cautioned that failure to submit proposal in the format specified shall be grounds to reject the proposal and remove bid from consideration.

Item	Qty	Description/Specifications OR EQUIVALENT
1	(1) or more	TURNOUT COAT, TURNOUT PANT, AND SUSPENDER

Length of time the bid price will be honored: \_\_\_\_\_ days/weeks/months/years      TOTAL BID PRICE \$ \_\_\_\_\_

For information or questions regarding this bid invitation, please contact:

**MICHAEL WHALEY ASSISTANT CHIEF 334-595-0305/334-239-1748**

BID MADE OUT IN PENCIL WILL NOT BE ACCEPTED. Any deviation from the specification(s) provided shall be outlined in writing and submitted with the bid. Brand name, catalog numbers, etc., if shown, are used to indicate levels of quality. If you are unable to furnish an item as specified and desire to offer a substitute, give a full description of the item, including descriptive literature and/or manufacturer's specifications, along with any supplemental information necessary to compare the item bid with the requirements set forth in the bid form, or your bid may be rejected. Any attachment hereto is made and becomes a part of this invitation and must be signed by the bidder. Bid errors may not be corrected after bids are opened. Prices shall not include State, Local or Federal Excise Taxes. Tax exemption certificates will be furnished upon request.

*If you cannot furnish any of the items listed, please return this sheet marked "No Bid" and give an explanation of why you did not submit a bid so that we can update your listing in our records. Failure to submit a bid or a "No Bid" response after three (3) bid invitations shall be reason to discontinue future bid notice. City reserves the right to award this bid on all or none basis, or item by item basis, to waive any informality in bids, and also the right to reject any or all bids. Bids may be awarded based on delivery date as well as cost.*

I/We agree to furnish the above at the prices shown and guarantee that each item offered will meet or exceed all specifications, conditions and requirements listed for same. Terms of Payment: \_\_\_\_\_.

In order to comply with the requirements of the Beason-Hammon Alabama Taxpayer and Citizen Protection Act, Act No. 2011-535, and Act 2012-491, bidders must comply with Section 31-13-9, *Code of Alabama, 1975*, as Amended.

**If your company employs persons in the State of Alabama, you must provide the City of Prattville with documentation that your company is enrolled in the E-Verify program along with submission of bid.** Should your company be awarded this particular bid, the award of the contract is conditioned on your company not knowingly employing, hiring for employment or continuing to employ an unauthorized alien within the State of Alabama. Furthermore, a contracting party found to be in violation of this provision shall be deemed in breach of the agreement and shall be responsible for all damage resulting therefrom.

**If State Code requires bidder to have a certification/license to complete the bid requirements by either type of work or dollar amount, the bidder shall include a copy of the certification/license with the bid and include the certification/license number on the outside of the sealed bid envelope.**

**Each sealed bid envelope must include two (2) originals of Bid Invitation, including Bid Specifications, and show the Bid Invitation Number, Date/Time of Bid Opening, and Company's Name and Address on the outside of the envelope. If available, bidders are requested to include an electronic copy in Adobe PDF format. Enclose a signed and completed W-9 Request for Taxpayer Identification Number & Certification with bid response.**

I hereby affirm I have not been in any agreement or collusion among bidders or prospective bidders in restraint of freedom of competition, by agreement to bid at a fixed price, or to refrain from bidding otherwise. **[Bid must be notarized.]**

Firm: \_\_\_\_\_ By: \_\_\_\_\_ Date: \_\_\_\_\_

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

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ Email: \_\_\_\_\_

Sworn to and subscribed before me this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

\_\_\_\_\_  
Notary Public

Notary Expires: \_\_\_\_\_

**CITY OF PRATTVILLE  
REQUEST FOR PROPOSAL  
for  
TURNOUT COAT, TURNOUT PANT, AND SUSPENDER**

It is the intention of these specifications and requirements to obtain bids for one or more **TURNOUT COAT, TURNOUT PANT, AND SUSPENDER** for the City of Prattville, and to obtain bids that may be easily and completely evaluated on an equal and competitive basis. Vendors are cautioned that failure to submit proposals in the format specified shall be grounds to reject the proposal and remove bid from consideration.

**SPECIFICATIONS & REQUIREMENTS:**

***CITY OF PRATTVILLE  
FIRE DEPARTMENT***

***Prattville, Alabama***



***PERSONAL PROTECTIVE EQUIPMENT  
TURN-OUT GEAR  
BID SPECIFICATIONS***

**One (1) or More Turnout Coat, Turnout Pant, and Suspender**

**Intent:**

It is the intent of these specifications, and all requirements listed herein, to obtain bids on fire fighter personal protective equipment (turnout coat, turnout pant, and suspender) to meet the local needs of the City of Prattville, and to obtain bids that may be easily, and completely evaluated on an equal and competitive basis.

**General:**

All equipment furnished under this contract shall be new, unused and the same as the manufacturer's current production design. Accessories not specifically mentioned herein, but necessary to furnish complete unit ready for use, shall also be included. Unit shall conform to the standard known to the trade in design, quality of material and workmanship. Assemblies, sub-assemblies and component parts shall be standard and interchangeable throughout the entire quantity of units as specified in this invitation to bid.

Because of the wide variances in types of production techniques available in the industry, the purpose of these specifications is to set a standard by which all proposals received may be evaluated, studied and compared equitably. Vendors are **required to return two (2) copies of these specifications**, correctly and completely furnishing all information requested and answering all questions attached. Any requested data literature, and detailed written lists of exceptions taken must also be enclosed.

Since bids from a number of suppliers are anticipated, and the City of Prattville cannot be expected to be familiar with all various technical details of all vendor's products, the only adequate method of evaluation will be to compare in this format. Vendors are cautioned that failure to submit proposals in format specified herein will be grounds to reject vendors proposal and remove bid from consideration.

Considerable time and effort has been invested to design these specifications to the specific needs of the City of Prattville.

**Guarantee:**

Bidder shall state their usual warranty and provide an option for extended warranty if applicable.

**REQUEST FOR PROPOSAL SPECIFICATIONS  
PERSONAL PROTECTIVE EQUIPMENT**

**1.0 Scope, Purpose and Classification**

**1.1 Scope:** This specification lists the criteria for design and materials of gear requested to provide protection during structural firefighting operations where there is a threat of fire or when certain physical hazards are likely to be encountered, such as during non-fire-related rescue operations, emergency medical operations and victim extrication.

**1.2 Purpose:** The purpose of this document is to provide minimum requirements for the production of personal protective clothing, which meets the needs and desires of the City of Prattville.

**1.3 General:** It is not the intention of the City of Prattville to write out vendors of similar or equal equipment/clothing of the types specified. It should be noted, however, that this specification is written around specific needs of the City of Prattville.

**1.4 Standard:** All garments produced shall meet or exceed the criteria set forth in the current edition of NFPA 1971 PROTECTIVE CLOTHING FOR STRUCTURAL FIREFIGHTING, FED-OSHA CFR 1910, Subpart L, OSHA 29 CFR Part 1910.1030 and/or the requirements of CAL-OSHA title 8, Article 10.1, Para. 3406.

All components and composites used in the construction of garments shall be third-party tested, certified and listed for compliance to NFPA 1971. The label of the third-party tester shall denote certification.

The manufacturer shall be registered to the ISO Standard 9001 to assure a satisfactory level of quality.

**1.5 Bid Evaluation.** Bids received shall be evaluated by the Purchaser. This evaluation will be based as a minimum on the following criteria:

Completeness of the proposal; i.e., the degree to which it responds to all requirements and requests for information contained herein. Bidders are directed to pay particular attention in answering the "Yes or NO" response below each paragraph contained within these specifications. If the bidder does not meet the specification exactly, a "no" response should be given. Exceptions will be judged by the purchaser. If this procedure is not followed the bid will be rejected as non-compliant.

**At the time of the bid opening, bidder must provide an exact sample of the turnout gear that is proposed for evaluation by the fire department.**

**1.6 Exceptions to Specifications:** Any exceptions to these specifications indicated must be clearly pointed out. Otherwise, it will be considered that items offered are in strict compliance with these specifications and the successful bidder will be held responsible for delivering a garment or piece of equipment meeting these specifications. Any exceptions must reference by Paragraph Number and Line and be explained in detail on a separate sheet marked "Exceptions". Any bidder not complying shall not be considered as responsive.

Any proposal which indicates "No Exception" to any item on our proposal documents, and also includes a letter from the vendor taking major or total exception to our specifications or indicates they are quoting to provide their standard methods without listing any differences in the manner described, will be immediately rejected as non-compliant and removed from further consideration.

Should a vendor offer a quotation in response to this proposal and not take explicit exceptions and attempt to offer a product not in compliance with the exact specifications, the Purchaser reserves the sole right to issue a Purchase Order with specified penalties. Penalties for not providing garment(s) or equipment to the exact specifications, with approved exceptions or deviations specifically authorized by Purchaser, will be assessed. These will require that the Vendor pay the difference in price as offered in their proposal and what the Purchaser must eventually pay (from another compliant vendor) for garment(s) or equipment meeting these specifications.

**1.7 Contract Award.** The Purchaser reserves the right to increase the number of garments or equipment specified under this contract. If awarded, the Bidder agrees that additional public governmental agencies may purchase under the same terms and prices afforded by any contract arising from the bid award.

The Purchaser has the right to waive any informalities, irregularities and technicalities in procedure.

**1.8 Prices and Payments:** All bid prices shall be complete and include any warranties and delivery charges of the garment(s) or piece of equipment to the City of Prattville.

Payment shall be made in accordance with these specifications and the Bid Proposal submitted by the Bidder. Payment will be made upon acceptance of the garment(s) and/or equipment specified under these specifications.

All bid prices and conditions must be specified on the Bid Proposal Form. Bid prices shall be valid for at least 1 year from the date of the Bid Opening, or as otherwise specified on the Bid Proposal form. If pricing is subject to change throughout the year, please indicate initial pricing, the percentage of increase and the approximate month.

Full payment will be made as each unit is received, inspected and found to comply with procurement specifications, free of damage and properly invoiced.

**1.9 Delivery:** Since delivery proposals by the bidder will weigh heavily in the determination of the bid award, the delivery schedules that are submitted by the bidders shall automatically become binding upon the award of a successful bid. The bidder must be able to provide delivery within 45 days from the time that the order is placed.

**1.10 Stock Program:** The successful bidder must keep a stock of common sizes of the gear proposed in a location where it can readily be shipped. Stock gear must be able to be shipped in 24 hours of placing an order.

**1.11 Technical Information/Exceptions.** Bidders must furnish all information requested in the space provided in this specification. A copy of the purchasers specifications shall be returned with all sections responded to specifically where there is deviation from these specifications. Any area where these specifications are not met exactly will be marked with a "no" response.

Bidders shall provide all necessary information requested by these specifications. Spaces shall be marked to indicate whether or not the Bidder complies with that paragraph. Any exceptions taken shall be listed individually.

The Bidder, when listing exceptions or "clarifications", shall reference these specifications by the proper paragraph number.

**1.12 Service:** The successful bidder must be an authorized warranty center for the garments that is being bid.

Does your bid comply exactly as written in Sections 1.1 - 1.12?	YES	NO	Exception
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## 2.0 User Guide, Tracking, Training and Warranty

**2.1 User Guide Information:** Each garment shall include a User Information Guide with information required by NFPA 1971.

This guide shall include:

(a) Pre-use information:

- Safety considerations.
- Limitations of use.
- Garment marking recommendations and restrictions.
- A statement that most performance properties of the garment cannot be tested by the user in the field.
- Warranty information.

(b) Preparation for use:

- Sizing/adjustment.
- Recommended storage practices

(c) Inspection:

- Inspection frequency and details.

(d) Don/Doff:

- Donning and doffing procedures.
- Sizing and adjustment procedures.

- Interface issues.

(e) Use:

- Proper use consistent with NFPA 1500, Standard on Fire Department, Occupational Safety and Health Program, and 29 CFR 1910, 132.

(f) Maintenance and Cleaning:

- Cleaning instructions and precautions with a statement advising users not to use garments that are not thoroughly cleaned and dried.
- Inspection details.
- Maintenance criteria and methods of repair where applicable.
- Decontamination procedures for both chemical and biological contamination.

(g) Retirement and Disposal

- Retirement and disposal criteria and considerations. Page (h) Drag Rescue Device (DRD)
- Use, inspection, maintenance, cleaning and retirement of the DRD.

Does your bid comply exactly as written in 2.1?	YES	NO	Exception	
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**2.2 Tracking Label System:** There shall be a bar code label permanently affixed to each garment for tracking purposes. The bar code shall contain a minimum of the following information:

- unique serial number
- item description (brand, model, material color)
- lot information (date of mfg., size, etc.)
- material description
- the standard to which the garment is compliant

The bar code shall be able to withstand customary wash and wear cycles.

Does your bid comply exactly as written in 2.2?	YES	NO	Exception	
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**2.3 Sizes:** Coats shall be made available in even chest sizes with corresponding sleeve lengths available in short, regular, and long. Pant sizes shall be made available in even waist sizes with inseam lengths available in extra short, short, regular and long. Male and female sizing available.

Does your bid comply exactly as written in 2.3?	YES	NO	Exception	
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**2.4 Warranty:** Each garment shall have a limited lifetime warranty against defects in material and workmanship.

Does your bid comply exactly as written in 2.4?	YES	NO	Exception	
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**2.5 Composite Performance:** The garment composite, consisting of the outer shell, moisture barrier and thermal liner, shall provide a Thermal Protective Performance (TPP) of not less than 95 when tested in accordance with NFPA 1971 standard.

The garment composite, consisting of the outer shell, moisture barrier and thermal liner, shall provide a Total Heat Loss (THL) of not less than 268 when tested in accordance with NFPA 1971 standard.

The Heat Transfer Index rating shall be 25 seconds for the shoulder when measured at 2 psi (pounds per square inch) and 25 seconds for the knee when measured at 8 psi.

Does your bid comply exactly as written in 2.5?	YES	NO	Exception	
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**2.6 Stress Points:** All outer shell stress points, including top and bottom pocket corners, pocket flap corners, top and bottom of storm flap/fly shall be reinforced using a 42 stitch minimum bar tack

Does your bid comply exactly as written in 2.6?	YES	NO	Exception	
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**2.7 Labeling:** Each garment shall have a garment label(s) permanently and conspicuously attached stating at least the following language, as well as detailed warning instructions provided by the manufacturer.

Do Not Remove This Label

THIS GARMENT MEETS THE GARMENT REQUIREMENTS OF NFPA 1971, STANDARD ON PROTECTIVE ENSEMBLE FOR STRUCTURAL FIRE FIGHTING, 2013 EDITION  
MADE IN THE U.S.A.

Does your bid comply exactly as written in 2.7?	YES	NO	Exception
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**2.8 Packaging:** Each Coat and Pant shall be packaged in a dark plastic bag in order to provide protection during shipping and prior to first use.

Does your bid comply exactly as written in 2.8?	YES	NO	Exception
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**2.9 Fire Academy:** Online training shall be available meeting NFPA 1500 training requirements on the safe use of the (garments, helmet, boots, gloves, and hood).

This online training shall include:

- Personal Responsibility of the Individual Fire
- Purpose and Limitations
- Structural PPE Construction, Features, and Functions
- Routine Inspection
- Donning and Doffing
- Proper Fit and Overlap
- Using Your PPE Safely
- How Fire Fighting Affects the
- Routine Cleaning of PPE
- Assembly and Disassembly of PPE
- Storage
- Useful Life and Retirement of PPE

Additionally online training satisfying NFPA 1851 training requirements on advanced inspection, advanced cleaning and basic repairs (turnouts and helmets) shall be available.

Does your bid comply exactly as written in 2.9?	YES	NO	Exception
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**2.10 Acquisition Regulation:** In the past three-year period has your firm, or any of its principals, been convicted or had a civil judgment rendered against it for: commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, state, or local) contract or subcontract; violation of Federal or state antitrust statutes relating to the submission of offers; or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, tax evasion, violating Federal criminal tax laws, or receiving stolen property?

Does your bid comply exactly as written in 2.10?	YES	NO	Exception
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### 3.0 Coat

**3.1 Coat Model/Design:** COAT CONSTRUCTION: The coat shell shall be of 3-panel construction in all layers with an inverted pleat on each side where back front and back body panel pieces meet. Each pleat shall begin at the back of each shoulder and shall extend vertically down the side of the coat. A combination moisture barrier/thermal shall include a corresponding 1" inward dynamic fold approximately 1.5" from each sleeve seam at the shoulder. This fold shall provide for coat expansion when extending arms forward and shall interface with the inverted pleats of the outer shell to maximize mobility and function of the outer shell and thermal liner. The coat shell and moisture barrier/thermal liner shall be oversized to assure proper chest fit and

insure maximum mobility without restriction of the arms and shoulders. Bi-swing construction shall provide better fit, longer wear and greater comfort. Sleeves shall be of full length and of shoulder insert, 2-panel type design.

Does your bid comply exactly as written in 3.1?	YES	NO	Exception
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**3.2 Bellows Underarms:** Bellows underarm construction shall be used in all layers of the coat-outer shell/moisture barrier/thermal liner-ensuring maximum upper body freedom of movement including complete arm mobility when reaching up and/or forward. Bellows construction shall extend to all inner layers of the coat making it possible for the fit and freedom of movement, derived from the outer shell bellows construction, to be passed through the inner layers to the wearer's body.

The outer shell/moisture barrier/thermal liner bellows shoulder construction shall consist of an underarm and shoulder bellows of elongated football shape not less than 8" wide by not less than 15" long sewn into each of the coats fabric layers by two-needle construction. The bellows in each layer shall begin at a point corresponding to the front of the armpit, wrap around under the arm and shoulder joint, and terminate at the rear top of the shoulder.

Does your bid comply exactly as written in 3.2?	YES	NO	Exception
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**3.3 Freedom Elbow:** The sleeve shall have an insert throughout all layers that shall provide a natural bend in the sleeve. This insert shall be set in the back of each sleeve and shall be a shortened football shape, 6" wide in the middle and 3" wide at the seams.

Does your bid comply exactly as written in 3.3?	YES	NO	Exception
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**3.4 Coat Model/Design:** When measured at the center of the back from the collar seam to the hem bottom, the coat shall measure 29", 30.5", 32" 33.5" or 35" long for male; 29" or 32" long for female.

Does your bid comply exactly as written in 3.4?	YES	NO	Exception
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**3.5 Drag Rescue Device:** The Fire Fighter Recovery Harness™ shall be constructed of a one and one-half inch wide KEVLAR® strap that shall be installed between the outer shell and the thermal liner. This harness shall have a hand loop (16" in circumference) that exits the outer shell through a 2" polymer coated aramid reinforced slot on the back of the coat just below the collar and is held in place by means of a piece of 1.5" x 2" hook on the strap and a piece of 1" x 2" loop attached to the outer shell. This strap is then secured under a 2.25" x 5.25" flap that is sewn in at the neck /collar area. Two pieces 1" x 2" loop shall be set vertically on shell to align with two pieces of 1" x 2" hook set vertically to the underside of the flap. The harness is also held in proper alignment by means of a 2" x 2" piece of loop placed on the inside of the outer shell underneath the chest trim that corresponds to a piece of 1.5"x 2" hook located on the harness. Two 1" x 3.5" self-fabric straps with 1" x 2" hook on one end and 1" x 2" loop on other end shall be set to coat in the shoulder cap area to keep straps in proper position for use.

Fire Fighter Recovery Harness™ provides mechanical leverage for dragging a downed and incapacitated structural firefighter from a life-threatening environment. The design of the harness enables the rescuer to drag the downed firefighter in line with the axis of the firefighter's skeletal frame, in order to decrease the risk of further injury.

Does your bid comply exactly as written in 3.5?	YES	NO	Exception
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**3.6 Coat Outer Shell Material:** The outer shell shall be constructed of +/- 7.0 oz./sq. yd. 70% "PBI Dominant" PBI®/KEVLAR® spun yarns/30% 600 denier KEVLAR® filament in a twill weave with extremely durable FPE water resistant Teflon® FPE alloy finish. Color shall be natural (gold).

Does your bid comply exactly as written in 3.6?	YES	NO	Exception
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**3.7 Coat Liner and Moisture Barrier:** THERMAL LINER: The thermal liner shall be comprised of Glide™ high-lubricity, stress reducing, filament/spun face cloth weighing 3.6 oz./sq./yd. The Kevlar filament yarns shall represent no less than 60% of the face cloth's composition and shall be positioned in the warp direction of the weave in order to optimize their slippery characteristics on the face. Nomex spun yarns, with superior wicking characteristics, shall be used to promote moisture

management within the garment. The Glide™ face cloth shall be quilted to one layer spun lace aramid (85%NOMEX®/15% KEVLAR®) weighing approximately 2.3 oz./sq. yd. and one layer of aperture (11-13 apertures/sq. inch) spun lace aramid (85% NOMEX®/15% KEVLAR®) weighing approximately 1.5 oz./sq. yd. both layers shall be treated with a Teflon® finish to promote minimal moisture storage in the garment as well as promote rapid drying (Total weight +/- 7.3 oz./sq. yd.).

**MOISTURE BARRIER:** Nonwoven aramid substrate laminated to a lightweight breathable, Gore RT7100™ PTFE, membrane; weighing 4.6 oz. /sq. yd. The liner shall have one 8.5” x 8.5” internal pocket which shall be made of black outer shell material. The liner pocket shall be located on the left side of coat liner.

**Quilt Thermal Liner Construction:** The moisture barrier shall be completely sewn to the thermal liner at its perimeter with the breathable membrane oriented inward toward the thermal liner and away from the outer shell. All moisture barrier seams shall be sealed as required by NFPA 1971. The moisture barrier/thermal liner shall finish no more than 1” from the cuffs and 3” from the hem.

**MOISTURE BARRIER/THERMAL LINER ATTACHMENT: Completely Removable:** The moisture barrier/thermal liner shall be completely detachable from the outer shell for ease of cleaning by the use of hook and loop, zippers, and snaps. There shall be a zipper down each front facing, hook and loop along the neck to interface with collar as well as hook and loop and one snap at each sleeve end.

All moisture barrier seams shall be sealed as required by NFPA 1971.

<b>Does your bid comply exactly as written in 3.7?</b>	<b>YES</b>	<b>NO</b>	<b>Exception</b>
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**3.8 Reflective Trim:** All trim shall be sewn with four (4) rows lockstitch 301, minimum (6) stitches/inch for most secure trim attachment.

Ventilated Trim shall be of 3" Scotchlite II (triple trim) of lime/yellow perforated with 0.08 mm holes (114 per square inch) to provide a conduit for the release of vapor that can develop when moisture is heated and the trim compressed.

Coat trim shall be applied as follows: New York Pattern: One 3" strip shall be set full circumference at the bottom sweep of the outer shell; one 3" strip shall be set around each sleeve approximately 2" above the cuff; one 3" strip shall be set around each sleeve just above the elbow; one 3" strip shall be set full circumference at the chest.

<b>Does your bid comply exactly as written in 3.8?</b>	<b>YES</b>	<b>NO</b>	<b>Exception</b>
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**3.9 Coat Collar: MOISTURE BARRIER/THERMAL LINER CONSTRUCTION:** The liner collar shall be a layer of self-material and a layer of CROSSTECH® Black. The design shall be compatible with the outer shell so that the liner does not buckle, pull, or otherwise restrict body motion. The left and right fronts of the liner collar shall be attached to the facings at the front closure of the outer shell. The neck of the liner collar shall be secured to the neck of the outer shell collar such that when donning the coat an arm may not be accidentally caught between the outer shell and its inner linings. A 4" wide CROSSTECH® Black and 1.5” self-material extension shall be sewn the full length of the neck with multiple pieces of ¾” loop for attachment to shell collar. The self-material extension shall overlap the shell collar to prevent exposure of the hook and loop. Collar closure shall be provided by FR hook and loop 1.5” x 4”, with hook portion sewn on right side of collar, and loop portion sewn on left, set horizontal.

**COLLAR:** The 3" split collar shall consist of two piece construction shaped for comfort. The collar shall be configured such that when the collar is raised it shall remain standing while providing continuous thermal and moisture protection around the neck and face. To ensure this protection, the two layers of outer shell collar shall be fully lined with a layer of CROSSTECH® Black. The shell collar shall provide proper interface with the liner to insure no moisture penetration through the collar seam to the inside of coat. The shell collar shall have multiple pieces ¾” hook along top edge for liner attachment. The collar shall be attached to the liner facing using 3/4" hook. Collar shall be of such design so as not to interfere with SCBA face masks, or helmet.

<b>Does your bid comply exactly as written in 3.9?</b>	<b>YES</b>	<b>NO</b>	<b>Exception</b>
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**3.10 Hanger Loop:** An external hanger loop constructed of a double layer of outer shell material and reinforced with two 42-stitch bar tacks shall be provided on the outside of the coat at the collar seam. It shall be designed to provide long service and

shall not tear or separate from the coat when the coat is hung by the hanger loop, loaded evenly with a weight of 80 lbs. and allowed to hang for one minute.

Does your bid comply exactly as written in 3.10?	YES	NO	Exception
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**3.11 Coat Inner Yoke Reinforcement:** A layer of Semper Dri™ (3.0 oz./sq. yd. Teflon® treated Chambray (NOMEX® spun) face cloth quilted to two layers of NOMEX®/Kevlar® spun lace (Total weight +/- 6.0-6.8 oz./sq. yd.)) shall be positioned between the moisture barrier and thermal liner for extra thermal protection in a high heat and compression area of the coat. It shall be sewn to the inside of the upper back portion of the thermal liner across the upper back from the back shoulder and collar seams 7" down, over the tops of shoulders and down the front approximately 4" ending at the armhole.

Does your bid comply exactly as written in 3.11?	YES	NO	Exception
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**3.12 Coat Shoulder Reinforcement:** A 4" wide area at the top of the shoulders extending 6" from the collar seam shall be capped with outer shell material for abrasion resistance and thermal protection. For additional thermal protection and cushioning, one layer of uninterrupted 1/8" thick, fire retardant closed-cell foam shall be oriented between the outer shell and the shoulder cap reinforcement.

Does your bid comply exactly as written in 3.12?	YES	NO	Exception
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**3.13 Coat Elbow Reinforcement:** The elbow shall be reinforced with gold split cowhide leather for abrasion resistance and thermal protection.

Does your bid comply exactly as written in 3.13?	YES	NO	Exception
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**3.14 Coat Cuff Reinforcement:** The cuff of the sleeve shall be reinforced with a binding of gold split cowhide leather not less than 3" in total width for abrasion resistance and thermal protection. At least 2" of the cuff reinforcement shall extend down the interior of the outer shell sleeve with a .75" wide strip of FR hook sewn full circumference to the topside of the cuff reinforcement. For added safety, (1) female snap fastener shall be set in the hook fastener to assist in attaching outer shell to moisture barrier/thermal liner.

Does your bid comply exactly as written in 3.14?	YES	NO	Exception
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**3.15 Coat Wristlets:** An internal wristlet shall consist of a 2-ply knit of 48% NOMEX®/48% KEVLAR® and 4% Spandex for superior recovery. Wristlet to be combination of natural and bronze colors producer dyed by DuPont, and with extremely durable Teflon® water resistant alloy not less than 8" extending completely over the palm with a thumbhole preventing the wristlet from sliding back. Wristlets shall be double stitched and bound to the moisture barrier/thermal liner providing extended thermal and slash protection.

Does your bid comply exactly as written in 3.15?	YES	NO	Exception
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**3.16 Coat Water Well-Ever-Dri:** A combination Semper Dri™ (3.0 oz./sq./yd. Teflon® treated Chambray (NOMEX® spun) face cloth quilted to two layers of NOMEX®/Kevlar® spun lace (Total weight +/- 6.0-6.8 oz./sq. yd.)) and one layer of breathable CROSSTECH® Black (Type 2F) leader shall be sewn no more than 1" back from the combination liner sleeve end to form a sleeve well. One male snap and one .75" wide strip of FR loop shall be sewn full circumference to the end of the thermal liner/CROSSTECH® Black (Type 2F) moisture barrier leader to help secure the combination liner to the outer shell. This sleeve well shall prevent water and hazardous materials from entering the sleeve when arms are in a raised position.

The combination liner sleeve ends shall be inserted into the outer shell sleeve ends by means of lining up the male snaps then attaching the FR loop fastener of the combination liner sleeve end with the female snap and FR hook fastener of the outer shell cuff. This method of combination liner attachment shall prevent any gaps from occurring between the combination liner and sleeve well during a full range of motion. The combination liner shall extend to within 1" of the sleeve end.

Does your bid comply exactly as written in 3.16?	YES	NO	Exception
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**3.17 Coat Closure System:** THERMAL FRONT PANEL CONSTRUCTION: There shall be continuous thermal and moisture protection around the entire torso including the storm flap. To ensure this protection, as well as reduce potential for wicking moisture to inside of liner, both right and left inside front facings of the coat outer shell shall incorporate outer shell fabric and Gore RT7100™ PTFE moisture barrier, extending from collar to hem.

COAT FRONT CLOSURE DESIGN: The complete outer shell coat front closure design shall consist of a FRONT CLOSURE SYSTEM completely protected by an OUTSIDE STORM FLAP which shall have its own, independent STORM FLAP CLOSURE SYSTEM.

STORM FLAP: A storm flap measuring not less than 3" wide, nor less than 22" in length shall be set on the outside of the right side of the coat opening for maximum thermal protection and clear drainage. The inner lining of the storm flap shall be Gore RT7100 PTFE moisture barrier meeting all requirements for moisture barriers sandwiched between two layers of outer shell fabric.

FRONT/STORM FLAP CLOSURES: The front closure shall consist of a thermoplastic zipper such that fast closure and exit is possible yet the coat remains securely closed while working. The storm flap closure shall consist of double-stitched 1.5" wide FR hook and loop attachments with FR hook fastener sewn on the left front of the coat, and corresponding FR loop fastener sewn on the inner side of the outer storm flap. The hook and loop closure shall extend the full length of the outer storm flap eliminating all exposed frontal hardware. The front closure shall consist of 1.5" hook and loop attachments which shall be sewn into the coat overlap, along the leading edge of the left and right sides of the coat.

Does your bid comply exactly as written in 3.17?	YES	NO	Exception
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**3.18 Liner Inspection System:** There shall be an 11" opening located on the coat liner system at the center left front of the liner. This opening will provide the ability to completely invert the coat liner to properly view the integrity of the entire liner system. There shall be one piece 1" x 4" FR loop sewn to the back side of the liner system with a piece of 1.5" x 3" FR hook sewn to the inside of the outer shell to ensure proper alignment when installing the liner system into the outer shell. This Liner Inspection System is completely hidden when the liner is properly installed into the outer shell.

Does your bid comply exactly as written in 3.18?	YES	NO	Exception
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**3.19 Microphone Tab:** There shall be a 2" X 5" triple-layer self-fabric microphone tab sewn to the shell. The microphone tab shall be located on the left chest above radio pocket.

Does your bid comply exactly as written in 3.19?	YES	NO	Exception
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**3.20 Flashlight Strap:** There shall be a 1.25"x 8.5" self-fabric flashlight holder x-stitched to the outer shell of coat. Strap shall have 1"x 2" hook applied to one end of the strap and 1"x 2" loop applied to opposite end of strap.

There shall be a 703 hook applied to outer shell 5" above the self-fabric strap. It shall be securely fastened to the coat by means of a self-fabric strap looped through the end of the 703 hook and bar tacked to the outer shell.

Does your bid comply exactly as written in 3.20?	YES	NO	Exception
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**3.21 Turn-Out Pockets:** 8.5" x 8" hand warmer pocket that expand by means of a 2" pleat. The pockets shall be lined and reinforced with self-fabric 4.5" up on the inside of the pocket with a self-material backer. The pocket shall be set at the bottom of the coat hem and reflective trim shall be set on each pocket.

Pockets and flaps shall be set with stitch 301, seam Ssb-2 with the top and bottom pocket corners and top corners of flap reinforced with bar tacks for additional strength. Moisture drainage will be accomplished by brass eyelets.

Each pocket flap shall measure 3" x 9.5".

Pocket flaps shall close to the pocket using 2 pieces of 1.5" x 2.75" loop horizontally on the pocket and 2 pieces of 1.5" x 2.75" hook vertically on underside of flap.

Pockets shall be located on left and right of the front bottom.

3.5" wide x 9" deep full bellows radio pocket that expands by means of side and front gussets to a thickness of 2" in front and back.

Pocket and flap shall be set with stitch 301, seam Ssb-2 with the top and bottom pocket corners and top corners of flap reinforced with a minimum 42-stitch bar tack. A brass eyelet shall provide drainage of moisture.

Pocket flap shall be 4.5"x 5".

Pocket shall be fully lined all 3 sides inside pocket with poly-cotton lining.

Pocket flap shall close to the pocket top using 1 piece of 1"x 2" loop on pocket horizontally and 1 piece of 1"x 2" hook on flap vertically. Pocket shall be located on the left side of the chest.

Does your bid comply exactly as written in 3.21?	YES	NO	Exception
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#### 4.0 Pant

**4.1 Pant Model/Design:** PANT CONSTRUCTION: The low rise waist pant is designed to be worn with any 32" or longer coat.

**RADIAL INSEAM BAND:** The pant inseam shall incorporate a comfort/mobility design in all layers. The banded pant insert shall run continuously from the top of the mobile knee of one leg, through the crotch, to the top of the mobile knee of the opposite leg. This design eliminates crotch seams therefore eliminating crotch seam failure. This design also provides a more comfortable fit and increased mobility while decreasing bunching of materials.

**FREEDOM KNEE:** The knee shall incorporate a comfort/mobility design in all layers. This design shall allow for a natural bending motion of the knee. The apex of the knee shall allow for not less than a 1.5" bellows at the center. The radial seam shall provide a gusset that the knee can fall into when crawling, climbing, bending, kneeling, etc. The bottom of the mobile knee shall be placed not less than 10" from the cuff to fall anatomically correct.

**WAISTBAND:** The waist of the pants shall be reinforced on the inside with two-ply of outer shell material not less than 1.5" in width. The pant waist shall be turned under to provide double material strength with the independent waistband, which shall then be double stitched to the outer shell.

Does your bid comply exactly as written in 4.1?	YES	NO	Exception
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**4.2 Pant Outer Shell Material:** The outer shell shall be constructed of +/- 7.0 oz./sq. yd. 70% "PBI Dominant" PBI®/KEVLAR® spun yarns/30% 600 denier KEVLAR® filament in a twill weave with extremely durable FPE water resistant Teflon® FPE alloy finish. Color shall be natural (gold).

**THERMAL LINER:** The thermal liner shall be comprised of Glide™ high-lubricity, stress reducing, filament/spun face cloth weighing 3.6 oz./sq./yd. The Kevlar filament yarns shall represent no less than 60% of the face cloth's composition and shall be positioned in the warp direction of the weave in order to optimize their slippery characteristics on the face. Nomex spun yarns, with superior wicking characteristics, shall be used to promote moisture management within the garment. The Glide™ face cloth shall be quilted to one layer spun lace aramid (85%NOMEX®/15% KEVLAR®) weighing approximately 2.3 oz./sq. yd. and one layer of aperture (11-13 apertures/sq. inch) spun lace aramid (85% NOMEX®/15% KEVLAR®) weighing approximately 1.5 oz./sq. yd. both layers shall be treated with a Teflon® finish to promote minimal moisture storage in the garment as well as promote rapid drying (Total weight +/- 7.3 oz./sq. yd.).

**MOISTURE BARRIER:** Nonwoven aramid substrate laminated to a lightweight breathable, Gore RT7100™ PTFE, membrane; weighing 4.6 oz./sq./yd.

**MOISTURE BARRIER/THERMAL LINER CONSTRUCTION:** Design shall be compatible with the outer shell so that the liner does not buckle, pull, or otherwise restrict body motion. The bottom nine inches of each thermal leg shall be constructed of treated chambray facecloth with two layers of aperture (11-13 apertures/sq. inch)

E-89™ spun laced aramid to deter the wicking of moisture up the thermal liner leg. The waist of the moisture barrier/thermal liner shall be secured to the waist of the outer shell such that when donning the pant a leg may not be accidentally caught between the outer shell and its inner linings along the waist and between the legs of the pant.

**Quilt Thermal Liner Construction:** The moisture barrier shall be completely sewn to the thermal liner at its perimeter with the breathable membrane oriented inward toward the thermal liner and away from the outer shell. The moisture barrier/thermal liner shall finish no more than 3" from the cuffs.

**MOISTURE BARRIER/THERMAL LINER ATTACHMENT: Completely Removable:** The moisture barrier/thermal liner shall be completely detachable from the outer shell for ease of cleaning by using snaps. Nine evenly spaced snaps shall secure the liner to the integral waistband; two snaps shall be set in leather leg tabs at each leg end. All moisture barrier seams shall be sealed as required by NFPA 1971.

Does your bid comply exactly as written in 4.2?	YES	NO	Exception
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**4.3 Reflective Trim:** All trim shall be sewn with four (4) rows lockstitch 301, minimum (6) stitches/inch for most secure trim attachment. Ventilated Trim shall be of 3" Scotchlite II (triple trim) of lime/yellow perforated with 0.08 mm holes (114 per square inch) to provide a conduit for the release of vapor that can accumulate when moisture is heated and the trim compressed. Pant trim shall be applied as follows: (1) strip set full circumference around the bottom of the cuff 3" from the bottom cuff.

Does your bid comply exactly as written in 4.3?	YES	NO	Exception
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**4.4 Pant Fly Closure; STORM FLY/CLOSURE:** The outer shell shall have an overlapping fly front running the full length of the fly on the left side. The flap shall not be less than 2.5" wide at the waistband. The bottom of the fly shall be reinforced with a 42 stitch bar tack.

The storm fly shall be held closed along its length by means of a hook and loop fastener closure 1.5" minimum width, along the leading edge for a distance of not less than 6" from the bottom of the fly closure to the waist area for proper alignment and secure closure. Additionally, one snap shall be positioned at the inside top of the fly. Pant closure shall be provided by a thermo plastic zipper.

The storm fly shall be outer shell material, lined with a 3.5" strip of CROSSTECH® (Type 2C) moisture barrier material to prevent wicking.

**THERMAL FLY ASSEMBLY:** The moisture barrier/thermal liner shall be constructed with an extension on the left side at the waist of all layers of the fly opening to assure continuous thermal and moisture protection. This overlap shall be positioned between the layers of the outside storm fly. A 3/4" wide x 9" long hook fastener shall be sewn to the moisture barrier/thermal liner to engage corresponding loop fastener on the underside of the outside storm fly.

Does your bid comply exactly as written in 4.4?	YES	NO	Exception
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**4.5 Take Up Straps:** One adjustment device shall be affixed to the outside on each side of the pant. Each take-up strap shall be comprised of two sub-component straps. The front strap shall be 1" wide x 5" in length, folded in half to form a loop, and shall be affixed to the side of the pant by means of two bar tacks spaced 2" apart. The loop shall face toward the back and hold a nickel plated 1" metal loop. The back strap shall be 1" wide x 9" in length of double layered outer shell material and hook and loop fastener. The rear 4.5" shall be sewn and triple bar tacked to the shell. The front section of the strap shall remain loose and be aligned so that it is threaded through the metal loop. It shall have a piece of 1" x 3" hook fastener attached to the loose strap end to engage the corresponding 1" x 4.5" loop fastener at end of strap to allow for adjustment.

Does your bid comply exactly as written in 4.5?	YES	NO	Exception
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**4.6 Pant Knee Reinforcement:** The knee shall be split cowhide leather (gold) material and measure 9" across the bottom, not less than 7" on the sides and gradually increase to 12" at the center point at the apex. For added thermal protection, an additional layer of uninterrupted 1/8" thick, fire retardant closed-cell foam shall be positioned between the moisture barrier and thermal liner. For additional extended thermal protection, one layer of uninterrupted 1/8" thick, fire retardant closed-cell foam shall be also positioned between the reinforcement layer and outer shell.

Does your bid comply exactly as written in 4.6?	YES	NO	Exception
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**4.7 Pant Cuff Reinforcement:** The cuff area of the pant shall be reinforced with a binding of gold split cowhide leather not less than 2" in total width for greater strength, abrasion resistance, and thermal protection. In addition a 3" x 3 1/2" piece of reinforcement material shall be sewn on the inseam area of the pant leg above the pant cuff and below the pant trim, in order to provide extra abrasion protection. The material used on the kick shield shall match the material used on the pants cuffs.

Does your bid comply exactly as written in 4.7?	YES	NO	Exception
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**4.8 Miscellaneous Pant Options:** The back portion of the cuff will gradually curve upward from each side seam to a maximum of 2" at the center back of the pant leg to prevent wear on the back of the cuff.

Does your bid comply exactly as written in 4.8?	YES	NO	Exception
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**4.9 Leg Tabs:** Two gold leather leg tabs 3/4" wide x 1 3/4" long with female snaps shall be bar tacked 2" up from bottom edge on inside of the pant cuff with one on the inseam and one on the out-seam.

Does your bid comply exactly as written in 4.9?	YES	NO	Exception
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**4.10 Liner Inspection System:** There shall be an opening located on the pant liner system to the right side of the waist separating the thermal barrier and moisture barrier, approximately 10" in length. This opening will provide the ability to completely invert the pant liner to properly view the integrity of the entire liner system. There shall be a piece of 1" x 3" FR loop sewn to the moisture barrier 3" over from beginning of opening and a corresponding piece of 1" x 3" FR hook sewn to the inside of the outer shell to ensure proper alignment when installing the liner system into the outer shell. This Liner Inspection System is completely hidden when the liner is properly installed into the outer shell.

Does your bid comply exactly as written in 4.10?	YES	NO	Exception
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**4.11 Turn-Out Pockets:** 10" wide x 10" deep outside full bellows pockets that expand by means of side and bottom gussets to a thickness of 2" in front and back.

Pockets shall be fully lined with KEVLAR® twill on all 4 sides inside pocket.

Pockets and flaps shall be set with stitch 301, seam Ssb-2 with the top and bottom pocket corners and top corners of flaps reinforced with bar tacks for additional strength. Moisture drainage to be accomplished by brass eyelets.

Pocket flaps shall be 11"x 5".

A hook and loop fastener closure system shall be set with 1" x 10" loop fastener horizontally on the pocket and (3) pieces of 1" x 3" hook fastener vertical on the underside of the flap.

Pocket shall be located on the left thigh.

9" wide x 10" high, deep outside full bellows pockets that expand by means of side and bottom gussets to a thickness of 2" in front and back.

Pockets shall be fully lined with KEVLAR® twill on all 4 sides inside of pocket, (2) layers self-fabric on shell inside pocket. First layer 6.5" high, second layer 4.5" high. Both layers stitched in 3" increments to create (6) tool compartments.

Pocket and flap shall be set with stitch 301, seam Ssb-2 with the top and bottom pocket corners and top corners of flap reinforced with bar tacks for additional strength. Moisture drainage to be accomplished by brass eyelets.

Pocket flaps shall be 4" x 11"

A hook and loop fastener closure system shall be set with 2" x 9" loop fastener horizontally on the pocket and (3) pieces of 1.5" x 3" hook fastener vertically on the underside of the flap.

Pocket shall be located on the right thigh.

Does your bid comply exactly as written in 4.11?	YES	NO	Exception	
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## 5.0 Quick Adjust H-Back Suspenders with Traditional Attachments

**5.0 Scope:** A highly engineered black suspender designed for greater range of mobility and reduced stress allowing for eight points of attachment to a traditional or contoured waist bunker pant with traditional suspender buttons.

Does your bid comply exactly as written in 5.0?	YES	NO	Exception	
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**5.1 Design:** Two 8" front pull straps shall be constructed as follows: 2" wide non-elastic polyester webbing shall be fed through 2" metal loops and secured with a two-needle lock-stitch at one end. A black military finish steel double Dee ring shall be fed through the webbing. The other end of the webbing shall be fed through a 2" wide thermo-plastic Dee ring and secured with a two-needle lock-stitch. The Dee ring shall function as a pull strap for easily adjusting the suspenders for proper fit.

Two 18" shoulder straps shall be constructed as follows: 2" wide non-elastic polyester webbing shall be fed through the top half of the steel double Dee ring and secured with a two-needle lock-stitch. Two 7" back straps made of 2" wide elastic webbing shall be joined with a 2" overlap at the end of each shoulder strap with a single-needle lock stitch. The end of each back strap shall be fed through a 2" metal loop and secured with a two-needle lock stitch.

One 2 1/2" horizontal back strap made of 2" wide elastic webbing shall be set perpendicular between the two shoulder straps and back straps at the point of overlap, secured with a single-needle lock-stitch, and reinforced with a two-needle lock-stitch "X" through the joining straps.

Four pieces of 2" wide elastic webbing shall feed through the 2" metal loops at each end of the front and back straps and be secured to 2" buttonhole peerless loops constructed of .080 diameter wire with a zinc plate finish. This will allow for eight points of attachment. Each piece of webbing shall be long enough so that when fed through the 2" metal loop and folded over, shall measure at least 2" long on each side. Each peerless loop shall be configured such that they easily rotate around a suspender button to allow for freedom of motion.

Does your bid comply exactly as written in 5.1?	YES	NO	Exception	
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**5.2 Shoulder Pads:** Each shoulder strap shall be encapsulated with a 2.25" wide x 13" long sheath of padding constructed of 1/8" thick fire-retardant closed-cell foam laminated to Nomex pajama check substrate. Shoulder pads shall start 1" up from the cross point of the horizontal back strap ("H" cross) and be bar tacked at each end so they do not slide forward.

Does your bid comply exactly as written in 5.2?	YES	NO	Exception	
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## 6.0 Warranty

**6.0 Warranty:** All products shall be warranted against defects in materials and workmanship for the useful life of the product.

Does your bid comply exactly as written in 6.0?	YES	NO	Exception	
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*\*Any exception from the specifications/requirements provided shall be outlined in writing and submitted with the bid.*

Bid includes two (2) original bid proposals with bid number, date and time, and if applicable certification/license number, on the outside of the sealed envelope

YES

E-Verify documentation included with bid proposal

YES

N/A

W-9 Request for Taxpayer Identification Number & Certification included with bid proposal

YES

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*Signature*