

**CITY OF BIRMINGHAM-PURCHASING DIVISION
710 NORTH 20TH STREET
P-100 CITY HALL
BIRMINGHAM, AL 35203-2227
OFFICE: (205) 254-2265 / FAX: (205) 254-2484**

**RYAN FOUST, SENIOR BUYER
EDWARD WILLIAMS, ASST. PURCHASING AGENT**

**May 31, 2023
ITB: 23-61**

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| TO: | Prospective Bidders |
| INVITATION TO BID NUMBER: | Bid # 23-61 (A complete copy can be downloaded at www.birminghamal.gov) |
| SEPARATE SEALED BIDS FOR: | FIREFIGHTER TURNOUT GEAR |
| INVITATION TO BID RESPONSES WILL BE RECEIVED BY: | Ryan Foust, Senior Buyer Purchasing Division 710 North 20 th Street, P-100 City Hall Birmingham, AL 35203-2227 |

*****IMPORTANT SOLICITATION DATES*****

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|--|---|
| BID DUE DATE: | BID OPENING DATE: |
| TUESDAY JUNE 20, 2023 by 5:00 PM (Central Standard Time) | WEDNESDAY JUNE 21, 2023 at 11:00 AM (Central Standard Time) |

Bidders wishing to bid can download the complete solicitation including the specifications and bid forms via the internet at www.birminghamal.gov (go to link titled Work, then click Bidding Opportunities) Interested bidders can also contact the Purchasing Office at (205) 254-2265 and request a copy be mailed to you.

BID OPENING WILL BE HELD AT:
Purchasing Division
P-100 City Hall
710 North 20th Street
Birmingham, AL 35203-2227

TELEPHONE INQUIRIES – NOT ACCEPTED

Telephone inquiries with questions regarding clarification of any and all specifications of the ITB will not be accepted. All questions **must** be e-mailed to Ryan Foust at ryan.foust@birminghamal.gov.

Submissions may be withdrawn, modified, and resubmitted prior to the formal bid opening due date. **Any submission modification(s) submitted after the “Bid Opening Due Date” may not be considered.**

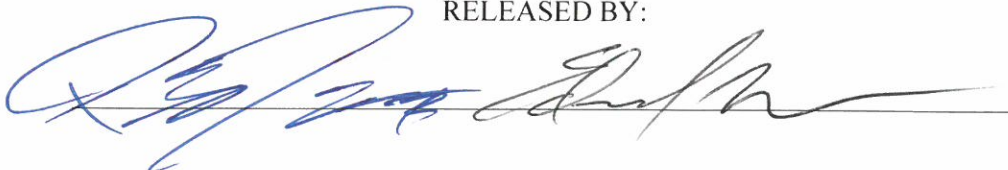
The City of Birmingham reserves the right to accept or reject any or all bids, or any part of any bid, and to waive any informalities or irregularities in the bid. The City of Birmingham may award contract in whole or in part based on the needs of the City of Birmingham.

All costs incurred by the company to respond to this solicitation will be wholly the responsibility of the Bidder. All copies and contents of the bid, attachments, and explanations thereto submitted in response to this ITB, except copyrighted material, shall become the property of the City of Birmingham regardless of the bidder selected. Response to this solicitation does not constitute an agreement between the Bidder and the City of Birmingham.

The City of Birmingham is not responsible for delays occasioned by the U.S. Postal Service, the internal mail delivery system of the City of Birmingham or any other means of delivery employed by the bidder. Similarly, the City of Birmingham is not responsible for, and will not open, any bid responses which are received later than the date and time indicated above. Late bid responses will be retained in the bid file, unopened.

Published-Alabama Messenger-05/31/2023

RELEASED BY:



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INVITATION TO BID

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Sealed bids marked "Firefighter Turnout Gear" will be received by the Purchasing Agent, P-100 First Floor of City Hall, 710 North 19th Street, Birmingham, Alabama 35203.

Bids will be accepted until 5:00 P.M. central time (standard or daylight savings time, as applicable) on **Tuesday June 20, 2023**. Bids submitted after these dates and times will not be considered.

Bids will be publicly opened at 11:00 a.m. on **Wednesday, June 21, 2023**.

The City has resumed having public bid openings and if you plan to attend in person, we ask that you wear a mask. You may also participate virtually via WebEx. Login information can be found on the City's website at www.birminghamal.gov (click on the link titled **Work** then click on **Bidding Opportunities**).

The City is not responsible for delays occasioned by the U.S. Postal Service, the internal mail delivery system of the City, or any other means of delivery employed by the Bidder. Similarly, the City is not responsible for, and will not open, any bid/proposal responses, which are received later than the date and time, indicated above. Late bids/proposals will be retained in the bid/proposal file, unopened.

TERM OF CONTRACT

Any contract resulting from this ITB will become effective upon bid award. Per Section 3-3-7(7) of the Birmingham City Code and State Bid Law, the proposed contract shall be in effect for a minimum of one (1) year guaranteed with the option of renewal for two (2) additional one-year terms, contingent upon Council approval. The life of this contract shall exist with the approval of both parties with the provision that no price increase in the original bid prices shall be allowed.

ADDENDA

Any addenda will be available on the internet. Bidder is responsible for checking the website for addenda until the bid opening date. Addenda will be mailed to only those vendors who were provided a copy in person or by mail.

CERTIFIED CHECK/BID BOND/CASHIER'S CHECK

It is required for any contract exceeding \$10,000.00 that the bidder submits with his bid a certified check, a cashier's check, or a bid bond payable to the City of Birmingham. In order for any bid award to be considered that exceeds \$10,000.00, your bid must be accompanied by an acceptable bid bond, cashier's or certified check in the amount of \$500.00. Bid bond checks will be returned to all unsuccessful bidders after the formal award is made and to the successful bidder after acceptance of award. Should the successful bidder fail to accept the award, the bid bond check shall be forfeited.

The City follows a policy of nondiscrimination. No contractor with the City should discriminate on the basis of race, sex, religion or national origin. Failure by the Vendor to carry out these requirements is a material breach of its obligations, which may result in its termination or such other remedy as the City deems appropriate.

All bids are to be submitted on the bid form provided and all bids are to be f.o.b. Birmingham, Alabama delivered. The City reserves the right to reject any or all bids submitted, in whole or part, and to waive any informalities. No bid may be withdrawn for a period of sixty (60) days after the date of the bid opening.

Bids must be submitted in a sealed envelope marked "**Firefighter Turnout Gear, 5:00 PM, 06/20/2023**." Bids may be **hand delivered** to Purchasing, Room P-100 First Floor, City Hall, Birmingham, Alabama or **mailed** to City of Birmingham, 710 North 20th Street, Birmingham, AL 35203. Bids mailed in (i.e. USPS, Federal Express, UPS, Airborne, etc.) **must** specify delivery to Room P-100, 1st Floor-City Hall.


Edward Williams, Assistant Purchasing Agent

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INVITATION TO BID (cont'd)

GENERAL

The City of Birmingham is seeking bids for Firefighter Turnout Gear. The basis of the bid shall consist primarily of turnout gear and related items that the City may require during the life of this contract. The City intends to award to the lowest priced, most responsive, and responsible bidder.

CANCELLATION

The City reserves the right to cancel the contract, in whole or part, and seek new bids at any time the City determines that the services, item(s) and/or product lines(s) being supplied is/are failing to perform satisfactorily. Any bid that imposes a service fee or any other type of fee on any order not exceeding a minimum order quantity or minimum purchase order dollar amount, will be determined a non-responsive bid and will not be considered for award. Municipalities are not liable for sales tax: reference Code of Alabama Section 40-23-4. Costs normally considered pass through costs (property tax, use tax, delivery charge, etc.) to the customer by the provider must be included in any fee proposed (Code of Alabama 40-12-222.) For the purchase of personal property, the City's policy is to apply a local preference option, as allowed by the State of Alabama Code, Section 41-16-50, in determining the low bidder. The contract shall become effective from the date of the Notification of Award letter which will be mailed to the successful bidder.

PURCHASE ORDERS

The City will issue purchase order(s) to the successful bidder for the goods and/or services (bid items) that are the subject of the bid. Unless otherwise agreed in a writing that is signed by both parties, the entire agreement between the City and the successful bidder concerning the bid items is comprised of the terms, conditions, specifications and requirements stated in (a) the contemplated purchase order(s), (b) this Invitation to Bid and Specifications and (c) your bid (collectively, the "Contract Requirements"). These writings supersede all former proposals, offers, negotiations, representations or agreements, either written or oral, concerning the provision of vendor's goods and/or services. By acceptance of the City's purchase order(s), the successful vendor agrees to abide by and perform its responsibilities related to the bid items in compliance with the Contract Requirements.

Successful bidder shall not assign this contract to any other party without prior written approval of the City of Birmingham. Contract shall not be assigned to an unsuccessful bidder who was rejected because he was not a responsive or responsible bidder.

TERMINATION OF CONTRACT

Failure to adhere to any or all terms, conditions and specifications as set forth in the contract may result in the immediate termination of the contract. Should termination occur, the holder of the contract may be declared a "non-responsible vendor" This declaration may result in the rejection of any future bids submitted by the vendor for a period of time to be determined by the City.

All bids submitted are to be F.O.B. delivered, City of Birmingham, Birmingham AL 35203.

PRICES

Include transportation (including fuel surcharge, if applicable)

QUANTITIES

The quantities shown on the bid form are estimated quantities only. Merchandise shall be ordered as requirements dictate. The City reserves the right to purchase more or less than this quantity as conditions require, and no bidder shall attempt to hold the quantities shown as a firm quantity under this contract.

PRE-PAYMENTS

No prepayments of any kind will be made prior to shipment.

TAX

The City of Birmingham is exempt from all Federal Tax, and sales and use tax, except Alabama tax on oils, lubricants and fuels specifically bought for over-the-road transportation use.

ADDITIONAL PURCHASES

The City has attempted to list all items required for Firefighter Turnout Gear, required during the term of the contract, if mutually

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INVITATION TO BID (cont'd)

ADDITIONAL PURCHASES (cont'd)

agreed upon, additional contracts may be executed, based upon this bid for the same item(s) or related types and/or sizes.

REDUCTION IN COST

Bidder agrees that the City of Birmingham will be charged no more for item(s) bid than the State of Alabama, and that in the event of a price reduction; the City will receive the benefit of such reduction on any undelivered portion of contract.

Successful bidder acknowledges and agrees that the City has the right to deduct from total amount of consideration to be paid, if any, to the successful bidder under this agreement all unpaid, delinquent, or overdue license fees, taxes, fines, penalties, and other amounts due the City from the successful bidder.

NON- DISCRIMINATION POLICY

Vendor (and its employees, agents and any subcontractors) shall not discriminate on the basis of race, color, sex, gender identity, sexual orientation, disability, familial status, or national origin in the performance of the services contemplated hereunder. Failure by the bidder to carry out these requirements is a material breach of its obligations which may result in its termination or such other remedy as the City deems appropriate.

DISADVANTAGED BUSINESS ENTERPRISE (DBE)

Vendor acknowledges and agrees that, consistent with federal law and City's public policy, it will encourage disadvantaged business enterprise (DBE) participation to the extent permitted by law. A "disadvantaged business enterprise" is a for-profit small business concern (i) at least 51% owned by one or more individuals who are both socially and economically disadvantaged or, in the case of a corporation, in which 51% of the stock is owned by one or more such individuals; and (ii) whose management and daily business operations are controlled by one or more of the socially and economically disadvantaged individuals who own it. In accordance with federal law, a "socially and economically disadvantaged individual" includes African-Americans, Hispanic Americans, Native Americans, Asian-Americans, women, and any additional groups designated as socially and economically disadvantaged by the federal Small Business Administration.

FORM W-9

Any successful bidder who is not currently set up as a vendor in the City of Birmingham vendor file will be required to submit a completed W-9 tax form prior to any award. The W-9 tax form may be submitted with your bid or no later than seven (7) working days of receipt of notice of intent to award.

BUSINESS LICENSE

The City of Birmingham must have a copy of the successful bidder's current City of Birmingham business license prior to formal award of contract. A copy of his/her license may be submitted along with his/her bid. In the event you receive a notification of intent to award letter, bidder must provide a copy of his/her current business license no later than seven (7) working days of receipt. Failure to submit the requested information will result in the notice of intent to award being revoked.

PUBLIC DISCLOSURE

Subject to applicable law or regulations, the content of each Bidder's Proposal shall become public information upon the effective date of any resulting contract.

TELEGRAPHIC/ELECTRONIC BID RESPONSES

Proposal responses sent by electronic devices (i.e., facsimile machines and email) are not acceptable and will be rejected upon receipt. Vendors will be expected to allow adequate time for delivery of their bid responses either by airfreight, postal services, or by other means.

E-VERIFY

Successful Vendor (located in the State of Alabama or located outside of the State of Alabama, but employs one or more employees within the State of Alabama) represents and warrants that it does not knowingly employ, hire for employment, or continue to employ

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INVITATION TO BID (cont'd)

E-VERIFY (cont'd)

an "unauthorized alien", as defined by the Beason-Hammon Alabama Taxpayer and Citizen Protection Act, Act No. 2011-535 (H.B.56) of the Alabama Legislature, as amended from time to time (the "Act") and that, during the performance of this contract, Vendor shall participate in the E-Verify program as required under the term of the Act. Vendor agrees to comply with all applicable provisions of the Act. As a condition for the award of any contract, Vendor shall provide documentation establishing that the Vendor is enrolled in the E-Verify program, or a signed, written statement that the Vendor does not have a presence (one or more employees) in the State of Alabama. Vendor may submit applicable documentation with his/her bid or no later than seven (7) working days of receipt of notice of intent to award.

Bids may be solicited for the product included in this contract where an immediate/emergency need exists including large quantities. The decision of the Purchasing Agent as to what constitutes a biddable situation shall be final and shall not be construed as a breach of contract.

Any questions concerning these specifications should be addressed to Purchasing Division, Ryan Foust, phone (205) 254-2269, fax, (205) 254-2484, between the hours of 7:00 a.m. and 3:00 p.m., Monday through Friday.

SINGLE BID

If a single bid response is received for this ITB, the bid will be rejected in accordance with Title 41-16-50-a of the Alabama Code. The bid will be opened but **will not** be read publicly. We will proceed with negotiations for a lower price with the rejected Bidder and other Bidders by means of sealed quotes. The rejected Bidder's initial offer will not be disclosed to other Bidders, prior to the awarding of a contract. The award will be made to the company offering the lowest negotiated quotation, provided that all conditions and specifications required by the City are met.

NEGOTIATIONS

The City of Birmingham reserves the right to enter into contract negotiations with the selected Bidder. If the City and the selected Bidder cannot negotiate a successful contract, the City may terminate negotiations and begin negotiation with the next selected Bidder. This process will continue until a contract has been executed or all proposals have been rejected. No Bidder shall have any rights against the City arising from such negotiations.

PROHIBITION AGAINST BOYCOTTING

By signing this contract, the Contractor certifies that it is not currently engaged in, and for the duration of this agreement will not engage in, the boycott of a person or an entity based in or doing business with a jurisdiction with which this state enjoys open trade.

AWARD

Contract will be awarded to the lowest most responsive and responsible bidder(s) who meets all bid requirements and has a history of successfully completing like work.

GOVERNING LAW/DISPUTE RESOLUTION

Contract award to purchase the materials covered in this bid document shall be construed under and governed by the laws of the State of Alabama and each party hereto irrevocably agrees to be subject to the jurisdictions of the courts of the State of Alabama.

PAYMENT TERMS

The City's standard payment term is Net-30 days from acceptance. Exception may be allowed for discounted early payment, such as 2%-10, Net 30 Days. The reference date for all such discounted early payment terms will be the date the invoice is received or the date the goods are received, whichever is later. In the event of a dispute the City's records shall prevail. **The City will not consider any bids requiring C.O.D. payments.**

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INVITATION TO BID (cont'd)

STATEMENT OF COMPLIANCE WITH ALABAMA CODE SECTION 31-13-9

Vendor shall participate in the E-Verify program as required under the Beason-Hammon Alabama Taxpayer and Citizen Protection Act. Vendor agrees to comply with all applicable provisions of the Act. As a condition for the award of any contract, Vendor shall provide documentation establishing that the Vendor is enrolled in the E-Verify program, or a signed, written statement that the Vendor does not have a presence (one or more employees) in the State of Alabama. Vendor may submit applicable documentation with his/her bid or no later than seven (7) working days of receipt of notice of intent to award.

HOLD HARMLESS AND INDEMNIFICATION

Vendor(s) shall defend, indemnify, and hold harmless the City of Birmingham, and its agents, employees and officials (hereinafter the "Indemnitees") from and against all demands, actions, damages, judgments, expenses (including but not limited to attorneys' fees, expert fees, court costs and other litigation costs), losses, and claims (including those for bodily injury, sickness, disease or death, or to injury to, destruction or loss of use of tangible property) (collectively hereinafter "Claims") by any third parties (including any employee, subcontractor or representative of the Vendor, hereafter a "Vendor Representative") that arises out of, relates to, results from, or is attributable to any of the following: (a) Vendor's performance or failure to perform its obligations hereunder; (b) any conditions in or about the work sites that the Vendor or any Vendor Representative may encounter; or (c) the use or occupancy of the work sites by Vendor or any Vendor Representatives. This indemnification obligation includes Claims that are caused in part by the negligence of an Indemnitee(s); provided nothing herein shall obligate Vendor to indemnify any of the Indemnitee(s) for Claims resulting from the sole negligence or from the willful misconduct of the Indemnitee(s).

NON-COLLUSION

Contractor covenants and declares that it has not employed any person to solicit or procure this Agreement and that Contractor has not made, and will not make, any payment of any compensation for the procurement of this Agreement. The covenant contained herein shall survive the expiration or earlier termination of this Agreement.

CONFLICT OF INTEREST

Contractor covenants and declares that it has not, and will not, acquire any interest, directly or indirectly, in any property acquired by the City during the term of this Agreement. Contractor warrants and covenants that it presently has no interest in, nor shall any interest be hereinafter acquired in, any matter that will render the services required under this Agreement a violation of any applicable Federal, State or local law. In the event that any conflict of interest should hereinafter arise, Contractor shall promptly notify the City in writing of the existence of such conflict of interest.

CONFIDENTIALITY

Contractor agrees that such reports, information, opinions or conclusions shall not be made available to or discussed with any individual or organization, including the news media, without prior written approval of the City. Contractor shall exercise reasonable precautions to prevent the unauthorized disclosure and use of the City information whether deemed confidential or not

INSURANCE REQUIREMENTS

Liability Insurance: For the duration of this contract and for limits not less stated below, the Contractor shall carry (i) general liability insurance (either primary or a combination of primary and umbrella coverage) with limits of not less than \$1,000,000.00 total with a maximum of \$500,000.00 for each occurrence and shall include, but not be limited to, personal injury, property damage, vandalism, property loss and theft; (ii) comprehensive automobile liability insurance concerning owned and rented vehicles operated by the Contractor with limits of not less than \$500,000.00 bodily injury per occurrence, \$500,000.00 property damage or combined single limit of \$500,000.00; and (iii) Workman's Compensation coverage in an amount adequate to comply with the statutory requirements. The City's bid number must appear on any/all copies of the certificate of insurance.

All such insurance shall be provided by a policy or policies issued by a company or companies qualified by law to engage in the insurance business in the State of Alabama with a rating of B+ or better according to the most current edition of Best's Insurance reports. Bidder is to provide written documentation of the company's rating with their bid.

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INVITATION TO BID (cont'd)

INSURANCE REQUIREMENTS (cont'd)

The Contractor may use umbrella or excess liability insurance to achieve the required coverages, provided that such umbrella or excess insurance results in the same type of coverage as required for the individual policies. These insurance requirements are in addition to and do not affect any indemnification obligation of the Contractor herein.

City Additional Named Insured: Except for Worker's Compensation coverage, all coverages shall contain endorsements naming the City, and its officers, employees and agents as additional named insured with respect to liabilities that arise out of and result from the operations of the Contractor or the performance of its work. The additional named insured endorsement shall not limit the scope of coverage to the City to vicarious liability, but shall allow coverage for the City to the fullest extent provided by the policies. Such additional insured coverage shall be at least as broad as Additional Insured endorsement from ISO, CG 2010.1185.

Policies Primary: All insurance policies required herein are to be primary and non-contributory with any insurance or self-insurance program administered by the City.

Waiver of Subrogation: Contractor shall require the carriers of the above-required insurance coverage to waive all rights of subrogation against the City, and its officers, employees, agents, contractors and subcontractors. Further, Contractor hereby waives any rights of subrogation against the City. All general or automotive liability coverage provided herein shall not prohibit the Contractor or its employees, agents or representatives from waiving the right of subrogation prior to loss or claim.

Proof of Coverage: Before the commencement of services or work hereunder, the Contractor shall provide the City a certificate(s) of insurance and endorsements (including the additional insured endorsements) evidencing compliance with the requirements in this section. Evidence of insurance will not be accepted on a per event basis. These certificates shall provide that such insurance shall not be terminated or expire without thirty (30) days advance notice to the City. In the event that the City is not notified that any of the coverage required herein is to be cancelled or changed in such a manner as not to comply with the requirements of this Contract, the Contractor shall, within fifteen (15) days prior to the effective date of such cancellation or change, obtain and provide the City with binder(s) of insurance evidencing the re-establishment of the insurance coverage required herein.

INVOICING

All invoices must agree with the purchase order in description and price and include the following information:

- 1.) Purchase Order Number
- 2.) Ship to Department Name and Address
- 3.) In order to ensure prompt payment, ALL ORIGINAL INVOICES* MUST BE SENT TO:

**CITY OF BIRMINGHAM
FIRE DEPARTMENT: ATTN-SABRINA FRANKLIN
1808 7TH AVENUE NORTH
BIRMINGHAM, AL 35203**

If an invoice does not agree with the purchase order, credits or a corrected invoice will be required in order for the City to process payment.

THIRD-PARTY "REMIT-TO"

If a Bidder has a third-party "remit-to" company, that information must appear on the Bidders response. The City of Birmingham will send payment to the company designated by the Bidder on its response but will not be responsible for resolving payment issues should the Bidder change payment processing companies after a payment has been mailed or without a 45-day written notification to the requesting department and Accounting Division of the City of Birmingham.

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INVITATION TO BID (cont'd)

BID SAMPLES

Bid samples may be required. Bidder(s) must furnish sample(s) of items bid as noted in each item's specification. Any such samples requested must be made available to the City within five (5) working days or as noted in the item specification.

WARRANTY

Equipment/Parts furnished shall carry the standard warranty offered to the general public. **PLEASE ATTACH A COPY OF YOUR WARRANTY AS PART OF YOUR BID SUBMISSION.**

PRICING ESCALATION/DE-ESCALATION

The City of Birmingham may take into consideration an Economic Price Adjustment. All prices offered shall be firm against any increase for twelve (12) months from the effective date of the contract. Sixty (60) days prior to renewal, the City of Birmingham may entertain a request for escalation in accordance with the most recently published consumer price index. Each successive renewal option will be treated in the same manner. The City of Birmingham reserves the right to accept, reject, or negotiate the request for a price increase. If the price increase is approved, the price will remain firm for one (1) year from the date of the increase. This clause also enables the City of Birmingham to seek de-escalation on the same terms.

UNIQUE ENTITY ID

The federal government has changed from the DUNS Number to the Unique Entity ID which is generated by going to SAM.gov. The Unique Entity ID is a 12-character alphanumeric ID assigned to an entity by SAM.gov. As part of this transition, the DUNS Number has been removed from SAM.gov.

BIDDER COMPLIANCE

All participating bidders are to adhere to the following specifications for all three groups included in this invitation to bid. Any exceptions to specifications must be notated on an included, additional document in your bid packet.

SPECIFICATIONS

GROUP ONE – Structural Firefighting Gear

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 (current addition – 2013), Underwriters Laboratories (UL), and OSHA for structural fire fighters protective clothing.

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.

LABELS

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

(continued on following page)

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SPECIFICATIONS (cont'd)

GROUP ONE – Structural Firefighting Gear (cont.)

- Compliance to NFPA Standard #1971
- Underwriters Laboratories classified mark
- Manufacturer's name
- Manufacturer's address
- Manufacturer's garment identification number
- Date of manufacture
- Size
- If PPE is sized for particular firefighter, that firefighters name shall be on a label

ISO CERTIFICATION / REGISTRATION

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

WARRANTY:

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

SIZING BY VENDOR:

- Both male and female sizing samples shall be available.
- The jacket length shall be measured from the juncture of the collar and back panel to the hem of the jacket and shall measure 32 inches long.
- The jacket shall be available in even size chest measurements of two-inch increments, and shall range from a small size of 30 to a large size of 68. Generalized sizing, such as small, medium, large, etc., will not be considered acceptable. Sizing specifically for women shall also be available. Vendor shall provide onsite custom sizing on the request of BFRS.
- The pants shall be available in even size waist measurements of two inch increments and shall be available in a range of sizes from 24 to 68. The pant inseam measurement shall be available in two inch increments. Generalized sizing, such as small, medium, large, etc., will not be considered acceptable. Sizing specifically for women shall also be available. Vendor shall provide onsite custom sizing on the request of BFRS.

SAMPLE FOR INSPECTION

- The apparent low bidder shall submit one (1) complete set of gear for inspection to determine that the gear bid will be in compliance with the specifications. Gear shall be submitted upon notification and delivered within 30 days of the notice. Failure to submit or the determination that the Sample is non-compliant will be cause to reject the bid.

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.

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May 31, 2023
ITB: 23-61

SPECIFICATIONS (cont'd)

GROUP ONE – Structural Firefighting Gear (cont.)

OUTER SHELL MATERIAL - JACKETS AND PANTS

- The outer shell shall be constructed of TENCATE "PIONEER™" featuring ENFORCE™ Technology. This is a fiber blend of DuPont™ Kevlar® and Nomex® having an approximate weight of 6.6 oz. per square yard in a twill weave. The shell material must be treated with 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 SUPER SHELLTITE will not be considered.**

OUTER SHELL MATERIAL - (Battalion Chief) JACKETS

- The outer shell shall be constructed of TENCATE "DEFENDER™ 750" Nomex® IIIA plain weave with an approximate weight of 7.5 oz. per square yard, shall be treated with Super Shelltite™ water repellent finish. Color of the garments shall be natural (off white). All other specifications are to be the same.

THERMAL INSULATING LINER - JACKET AND PANTS

- 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.*

MOISTURE BARRIER - JACKETS AND PANTS

- The moisture barrier material shall be W.L. GORE CROSSTECH® **black moisture barrier** - Type 2F, which is comprised of a CROSSTECH® membrane laminated to a 3.3 ounce per square yard Nomex® IIIA woven pajama check substrate. The CROSSTECH® membrane is an enhanced bicomponent membrane comprised of an expanded PTFE (polytetrafluoroethylene, for example Teflon®) matrix having a continuous hydrophilic (i.e. water-loving) and oleophobic (i.e. oil-hating) coating that is impregnated into the matrix. CROSSTECH® moisture barrier seams shall be sealed with GORE-SEAM® tape using a Series 6000 (or higher) GORE-SEAM™ sealing machine to afford comparable bacteriophage penetration resistance performance. Further mention of "Specified Moisture Barrier" in this specification shall refer to this section.

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.

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SPECIFICATIONS (cont'd)

GROUP ONE – Structural Firefighting Gear (cont.)

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 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.

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.

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, major B structural liner seams and shall have a minimum of 8 to 10 stitches per inch.

JACKET CONSTRUCTION

BODY

- The body of the shell and Action 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.

LOGOS

- The garment brand shall be identified by means of red FR Nomex thread embroidery on the top of the right collar denoting 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.

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SPECIFICATIONS (cont'd)

GROUP ONE – Structural Firefighting Gear (cont.)

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 (cont.) place by a FR Velcro® strap. 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.

LINER ACCESS OPENING - JACKET

- The liner inspection opening should run the full length of the color and shall be closed with FR Velcro hook and loop to prevent materials from falling inside the liner. Two strips of ⅝ inch wide FR Velcro® hook and loop fastener tape shall secure the thermal liner/moisture barrier to the outer shell along the length of the neckline under the collar. 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.

SIZING

- The jacket length shall be measured from the juncture of the collar and back panel to the hem of the jacket and shall measure 32 inches long.
- The jacket shall be available in even size chest measurements of two-inch increments, and shall range from a small size of 30 to a large size of 68. Generalized sizing, such as small, medium, large, etc., will not be considered acceptable. Sizing specifically for women shall also be available. Vendor shall provide onsite custom sizing on the request of BFRS.

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 **High Visibility II (HVII) style**; 3 inch wide stripes - around the bottom of the jacket within approximately 1 inch of the hem, horizontally around the back and chest area approximately 3 inches below the armpit, around each sleeve below the elbow, around each sleeve above the elbow, across the shoulders on the back immediately below the upper back reinforcement layer, two vertical stripes on the back (one on each side) beginning at the top of the bottom band of trim and extending up to the bottom of the upper band of trim.
- Any trim installed on the sleeve shall be backed by a layer of neoprene stitched to the inside of the outer shell to comply with the NFPA 2013 Stored Energy Test.

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SPECIFICATIONS (cont'd)

GROUP ONE – Structural Firefighting Gear (cont.)

REINFORCED TRIM STITCHING

- All reflective trim is secured to the outer shell with Nomex[®] thread, using a locking chainstitch protected by a strip of 3/32-inch strong, durable, flame resistant black Kevlar[®] cording providing a bed for the stitching along each edge of the retroreflective fluorescent trim surface and affording extra protection for the thread from abrasion. This system 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 this system 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.

SEWN ON RETROREFLECTIVE LETTERING

- Each jacket shall have 3" lime/yellow 3M Scotchlite[™] lettering on the upper back area. "BFRS"

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 on the outside and on the inside. There shall be a layer of specified moisture barrier and a layer of Nomex[®] pajama check material sandwiched in between (see Moisture Barrier section). The rear inside ply of Nomex[®] pajama check 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 a minimum of 3 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 outershell and moisture 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 5/8 inch wide FR Velcro[®] loop fastener tape running the full length of the collar. The collar's front layers of moisture barrier and outershell shall have an additional strip of 5/8 inch wide FR Velcro[®] hook fastener tape stitched to the inside lower edge and running the full length of the collar. These two inside strips of 5/8 inch wide FR Velcro[®] fastener tape sewn to the underside of the collar shall engage corresponding pieces of FR Velcro[®] fastener tape on the neck extension of the liner system.
- A self material fabric hanger loop shall be sewn at the top of collar.
- 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 2½ inches wide at the center tapering to 2 inches at each end with a total length of approximately 7½ inches. The throat tab will be attached to the right side of the collar by a 1 inch wide by 1½ 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. A 1½ inch by 3 inch piece of FR Velcro[®] loop fastener tape shall be sewn horizontally to the inside leading end of the throat tab and a 1½ inch by 3 inch piece of FR Velcro[®] hook fastener tape shall be sewn horizontally to the opposite end of the throat tab. A corresponding piece of FR Velcro[®] hook fastener tape measuring 1½ inches by 3 inches shall be sewn horizontally to the leading outside edge of the collar on the left side, for attachment and adjustment when in the closed position and wearing a breathing apparatus mask. The collar closure strap shall fold in half for storage with the FR Velcro[®] loop fastener tape engaging the FR Velcro[®] hook fastener tape.

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SPECIFICATIONS (cont'd)

GROUP ONE – Structural Firefighting Gear (cont.)

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 thermal liner and moisture barrier assembly shall be attached to the jacket facings by means of snap fasteners.

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.

STORM FLAP AND JACKET FRONT CLOSURE SYSTEM

- The jacket shall be closed by means of a 22 inch size #10 heavy duty brass zipper on the jacket fronts and FR Velcro® hook and loop fastener tape on the storm flap. The teeth of the zipper shall be mounted on black Nomex® tape and shall be sewn into the respective jacket facings. The storm flap shall close over the left and right jacket body panels and shall be secured with FR Velcro® hook and loop fastener tape. A 1½ inch by 24 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 by 23 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. The storm flap shall also be secured by means of four non-ferrous inward facing hook and dee rings. The dee rings shall be secured to the leading edge of the storm flap with two rivets. The rivets shall be reinforced on the underside of the storm flap with leather. Four inward facing hooks shall be attached to the left front body panel with three rivets per hook. The rivets shall be reinforced on the inside of the body panel with a single circular piece of leather on each hook. The inward facing hooks shall be positioned in such a manner that they engage the dee rings when the storm flap is closed over the front of the jacket.

CARGO/HANDWARMER EXPANSION 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 the shell 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 lower half of the pocket shall be reinforced with a layer of Kevlar® material on the inside.* 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 pocket flaps shall be closed by means of FR Velcro® hook and loop fastener tape. Two pieces of 1½ 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 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.

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SPECIFICATIONS (cont'd)

GROUP ONE – Structural Firefighting Gear (cont.)

KEVLAR TWILL POUCH (Expansion pocket only)

- The expansion pockets shall be fully lined with a Kevlar Twill Pouch to include the front, back, bottom and sides.

SLEEVES

- The sleeves shall be of two-panel construction, contoured, and of set in design. The outer and under sleeve panels shall be double stitched together with Nomex[®] thread. The sleeves shall be contoured (curved) to follow the natural shape of the human arm unlike straight, tubular sleeve configurations. An underarm gusset shall be incorporated between the underside of the sleeve and the body of the jacket, and shall be used in all layers of the garment (shell, moisture barrier, and thermal liner). The underarm gusset shall measure approximately 5 inches wide by 17 inches long (all layers) and graded to size, beginning at the front of the armpit and terminating approximately three inches from the top of the back of the shoulder, and shall provide for a high degree of uninhibited arm and shoulder movement.

SLEEVE CUFF REINFORCEMENTS

- The sleeve cuffs shall be reinforced with black Ara-Shield[®] 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.

WRISTLETS / 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, grey.
- The wristlets shall be sewn to flame resistant neoprene coated cotton/polyester impermeable barrier material, which in turn shall be sewn to the inside of the sleeve shell approximately five inches from the sleeve cuff. This sleeve well configuration serves to prevent water and other hazardous elements from entering the sleeves when the arms are raised. The neoprene barrier material shall also line the inside of the sleeve shell from the cuff to a point approximately five inches up, where it joins the sleeve well and is double stitched to the shell. 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.

THERMAL NEOPRENE CUFF PROTECTOR

- The cuff area of the jacket shall have a layer of Neoprene coated cotton/polyester sewn on the thermal liner from the bottom of the cuff up approximately 6 inches. This cuff protector helps to prevent wicking of moisture up from the cuff area when in contact with water.

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SPECIFICATIONS (cont'd)

GROUP ONE – Structural Firefighting Gear (cont.)

LINER SHOULDER THERMAL ENHANCEMENT

- A minimum of one additional layer of thermal liner material shall be used to increase thermal insulation in the shoulder area of the liner system. This thermal enhancement layer shall drape over the top of each shoulder extending from the collar to the sleeve/shoulder seam, down the front approximately 2 inches from the juncture of the collar down the back to a depth of 2 inches to provide greater CCHR protection in this high compression area. The upper back, front and shoulder thermal enhancement layers shall be sandwiched between the thermal liner and moisture barrier layers of the liner system and shall be stitched to the thermal liner layer only. The thermal enhancement layer shall have finished edges by means of overedging. Raw or unfinished edges shall be considered unacceptable. **Any thermal enhancements must be made of Caldura SL2i material with no exceptions.** 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.

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.
- One microphone strap shall be mounted above the radio pocket on the left chest. A second microphone strap shall be mounted on the right chest. Both straps shall be constructed of double layer outer shell material.

FACE MASK / HELMET / POUCH HOLDER

- An inward facing metal helmet snap shall be riveted to a leather strap approximately 2 inches in length and of double thickness. The strap and helmet snap shall be mounted vertically to the front of the jacket with the helmet snap in the down position. This shall be used to hold a facemask, helmet or pouch equipped with a ring holder. The holder shall be located on the right chest 1 inch below the microphone strap.

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.

LINER ACCESS OPENING (PANT)

- The combined moisture barrier and the thermal liner shall be completely removable for the pant. The thermal liner and moisture barrier layers of the liner system shall be stitched together and bound around the cuffs, but each layer will be individually bound at the top of the waist. The binding shall be of Bias-Cut neoprene coated cotton/polyester material for a finished appearance that prevents fraying and wicking of contaminants. The thermal liner and moisture barrier layers are attached at the waist band with a snap on either side and one center snap. Additionally, there shall be four independent snap tabs that secure the moisture barrier layer to the shell to prevent any gapping. **The bottom of the liner fly opening shall have a reinforcement made of Ara-Shield which serves to prevent the liner from tearing in this area which is highly stressed as a result of the constant donning and doffing of the pants.**

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SPECIFICATIONS (cont'd)

GROUP ONE – Structural Firefighting Gear (cont.)

SIZING

- The pants shall be available in even size waist measurements of two inch increments and shall be available in a range of sizes from 24 to 68. The pant inseam measurement shall be available in two inch increments. Generalized sizing, such as small, medium, large, etc., will not be considered acceptable. Sizing specifically for women shall also be available. Vendor shall provide onsite custom sizing on the request of BFRS.

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.

REINFORCED TRIM STITCHING

- All reflective trim is secured to the outer shell with Nomex® thread, using a locking chainstitch protected by a strip of 3/32-inch strong, durable, flame resistant black Kevlar® cord providing a bed for the stitching along each edge of the retroreflective fluorescent trim surface and affording extra protection for the thread from abrasion. This system 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 this system shall be considered an unacceptable alternative, since it has been proven that the two rows of stitching has a significant impact on wear life. All trim ends shall be securely sewn into a seam for a clean finished appearance.

WAISTBAND

- The waist area of the pants shall be reinforced on the inside with a separate piece of black aramid outer shell material not less than two inches in width. Neoprene coated cotton/polyester impermeable barrier shall be sewn to the back of the waistband as a reinforcement. 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 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.

TAKE UP STRAPS

- The pants shall be equipped with two take up straps. The straps shall be constructed of 1 inch wide black Aramid twill and be positioned in the waist area on the outside of the garment; one on each side. Each take up strap shall be comprised of two sub-component straps. The rear strap component shall be constructed of black twill Nomex®. The rear strap shall measure 1 inch wide and 4 inches long, folded back to form a loop, and shall be bartacked to the pants. The loop shall hold a high temp thermoplastic buckle. The buckle shall point toward the front. The front strap component shall measure 1 inch wide by approximately 9 inches long (finished dimension). One end shall be folded back on itself to form a loop.
- A high temp thermoplastic slide fastener shall be captured within the loop. The front strap component shall be inserted through the buckle on the rear strap component, back through the slide fastener, and the end shall be bartacked to the pants. A pull-tab of 1 inch black Aramid twill shall be affixed to the slide fastener. The take up strap pull-tabs shall pull toward the front to allow for adjustment

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SPECIFICATIONS (cont'd)

GROUP ONE – Structural Firefighting Gear (cont.)

PANT CLOSURE SYSTEM

- The exterior primary positive locking closure shall be an inward facing metal safety hook and dee ring. The safety hook shall be attached to a leather strap that is triple riveted to the right front body panel in the waist area. A leather backed dee ring shall be riveted to the leading edge of the fly flap near the top. The snap hook shall engage the dee ring located on the fly flap when in the closed position.
- The internal fly flap closure shall consist of 1½ inch wide by full-length FR Velcro® hook and loop fastener tape. The FR Velcro® loop portion shall be sewn with four rows of stitching to the inside of the leading edge of the external fly flap. The corresponding portion of FR Velcro® hook fastener tape shall be sewn with four rows of stitching to the right front body panel positioned to engage the loop portion when the external fly flap is in the closed position.

EXTERNAL / INTERNAL FLY FLAP

- The fly flap shall be constructed of two pieces of outer shell material. A center ply of specified moisture barrier shall be sandwiched between the two outer shell pieces. The fly flap shall be double stitched to the left front body panel beginning at the waist and extending down to a depth of approximately 11 inches. The fly flap shall be approximately 6 inches wide at the top, tapering to approximately 1 inch in width at the crotch where it will be further reinforced with a bartack. A leather backed dee ring shall be riveted to the leading edge of the fly flap at the top and shall be positioned to engage the safety hook on the take-up strap when the fly flap is in the closed position.
- An internal fly flap constructed of one ply of outer shell material, thermal liner and specified moisture barrier, measuring approximately 2 inches wide by 11 inches long, shall be sewn to the leading edge of the right front body panel in the fly area. The thermal liner and moisture barrier of the internal fly shall extend approximately 7 inches horizontally from the leading edge of the fly flap and will follow the shape of the outside large fly flap. The action of the external fly flap overlapping the internal fly flap lined with thermal liner and moisture barrier will ensure there is no interruption in protection.
- Appropriate male and female 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.

LINER KNEE THERMAL ENHANCEMENT

- A minimum of one additional layer of **Caldura SL2i** liner and one additional layer of moisture barrier made of **Crosstech Black** material, measuring a minimum of 7 inches by 10 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.

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SPECIFICATIONS (cont'd)

GROUP ONE – Structural Firefighting Gear (cont.)

KNEE REINFORCEMENTS

- The knee area shall be reinforced with black Ara-Shield® 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. Knee reinforcements of a smaller size do not provide the same protective coverage and shall be considered unacceptable. The lower edge of the Ara-Shield® knee reinforcement shall be turned under so that the lower row of stitching is covered and protected from abrasion.

EXPANSION 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 out-seam above the knee and positioned to provide accessibility. The lower half of each expansion pocket shall be reinforced with a layer of outer shell 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 pocket flaps shall be closed by means of FR Velcro® hook and loop fastener tape. Two pieces of 1½ 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 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.

KEVLAR TWILL POUCH (Expansion pocket only)

- The expansion pockets shall be fully lined with a Kevlar Twill Pouch to include the front, back, bottom and sides.

POCKET DIVIDER

- The right side expansion pocket shall be equipped with a vertical divider separating the pocket into two compartments. The divider will split the pocket 1/3rd from the rear.

PANT CUFF REINFORCEMENTS

- The cuff area of the pants shall be reinforced with black Ara-Shield® material. The cuff reinforcement shall not be less than 1 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.

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SPECIFICATIONS (cont'd)

GROUP ONE – Structural Firefighting Gear (cont.)

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.

REVERSE BOOT CUT

- 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

(GROUP TWO SPECIFICATIONS BEGIN FOLLOWING PAGE)

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SPECIFICATIONS (cont'd)

GROUP TWO – Technical Rescue Gear

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 Emergency Medical Operations. All materials and construction will meet or exceed NFPA Standard 1999 (current edition) Standard on Protective Clothing for Emergency Medical Operations and NFPA Standard 1951 (current edition) Standard on Protective Clothing for Technical Rescue.

THIRD PARTY TESTING AND LISTING PROGRAM

- The manufacturer will furnish written certification of all materials utilized in the construction of the garments and the finished garments shall comply with the criteria as specified in the general provisions of this specification. Protective Pants that are represented as being compliant with NFPA Standard 1999 Standard on Protective Clothing for Emergency Medical Operations and NFPA Standard 1951 Standard on Protective Clothing for Technical Rescue, current editions, shall be certified as so. Certification shall be performed by Underwriters Laboratories, NO EXCEPTIONS. Such certification shall be denoted by the Underwriters Laboratories mark on the product label. Successful bidder shall provide written certification that the protective Pant complies with the criteria of this section.

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 #1951
 - Underwriters Laboratories classified mark
 - Manufacturer's name
 - Manufacturer's address
 - Manufacturer's garment identification number
 - Date of manufacture
 - Size-If PPE is sized for particular firefighter, that firefighters name shall be on a label

ISO CERTIFICATION / REGISTRATION

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

BETTER BUSINESS BUREAU:

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

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SPECIFICATIONS (cont'd)

GROUP TWO – Technical Rescue Gear (cont.)

WARRANTY:

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

SIZING BY VENDOR:

- Both male and female sizing samples shall be available.
- The jacket length shall be measured from the juncture of the collar and back panel to the hem of the jacket and shall measure 32 inches long.
- The jacket shall be available in even size chest measurements of two-inch increments, and shall range from a small size of 30 to a large size of 68. Generalized sizing, such as small, medium, large, etc., will not be considered acceptable. Sizing specifically for women shall also be available. Vendor shall provide onsite custom sizing on the request of BFRS.
- The pants shall be available in even size waist measurements of two inch increments and shall be available in a range of sizes from 24 to 68. The pant inseam measurement shall be available in two inch increments. Generalized sizing, such as small, medium, large, etc., will not be considered acceptable. Sizing specifically for women shall also be available. Vendor shall provide onsite custom sizing on the request of BFRS.

SAMPLE FOR INSPECTION

- The apparent low bidder shall submit one (1) complete set of gear for inspection to determine that the gear bid will be in compliance with the specifications. Gear shall be submitted upon notification by the BFRS and delivered within 30 days of the notice. Failure to submit or the determination that the Sample is non-compliant will be cause to reject the bid.

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.

(materials and construction begin following page)

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SPECIFICATIONS (cont'd)

GROUP TWO – Technical Rescue Gear (cont.)

MATERIALS AND CONSTRUCTION

OUTER SHELL MATERIAL - JACKETS AND PANTS

- The outer shell shall be constructed of "**Millenia XTL**" 40% PBO / 60% Para-aramid blend with an approximate weight of 6.0 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. Bids offering this shell material without the SST will not be considered. Color of the garments to be gold (Natural).

MOISTURE BARRIER - JACKETS AND PANTS

- The **Crosstech S/R** moisture barrier material shall be a 5.0 oz. per square yard two-layer laminate comprised of a bicomponent membrane laminated to a liner fabric substrate. The bicomponent membrane shall be comprised of an expanded PTFE (polytetrafluoroethylene, for example Teflon) matrix having a continuous hydrophilic (i.e. water loving) and oleophobic (i.e. oil hating) coating that is impregnated into the matrix. The moisture barrier material shall meet all moisture barrier requirements of NFPA 1951-current edition. The moisture barrier shall be used as a hung liner under a durable outer-shell material. Further mention of "Specified Moisture Barrier" in this specification shall refer to this section. A 7.5 inch by 9.5 inch pocket, constructed of self material, shall be affixed to the inside of the coat liner on the left side by means of a lock stitch.

STITCHING

The outer shell shall be assembled using stitch type #301, #401 and #516. The moisture barrier shall be assembled using stitch type #301 and #516. Stitching in all seams shall be continuous. There shall be no joined stitching in midseam. All major A outer shell structural seams, major B structural liner seams, and minor seams including but not limited to pockets, flaps, and material reinforcements, shall have a minimum of 8 to 10 stitches per inch.

JACKET CONSTRUCTION

BODY

- The body of the shell shall be constructed of three separate body 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.

LINER ACCESS OPENING - JACKET

There shall be a liner access opening at the bottom back of the coat to allow for inspection. The opening shall have one snap tab, slightly offset from the middle, to secure the liner to the outer shell.

SLEEVES

- Sleeves shall be 2-piece, drop shoulder style, with FR Velcro® cuff closure and shoulder straps. To provide access to the shell for sewing on emblems on sleeves without damaging the waterproof-breathable permanent lining; there shall be a liner access opening at the bottom of the coat. There shall be a ½ inch wide ribbon loop inserted in the sleeve inseam of the lining to attach the optional fleece liner coat.

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SPECIFICATIONS (cont'd)

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|--|
| GROUP TWO – Technical Rescue Gear (cont.) |
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SLEEVE CUFF ADJUSTABLE STRAPS

- The sleeve shall terminate at the cuff with an adjustable strap. The strap shall be constructed of a double layer of outer shell material and measure approximately 1 inch wide by 3 inches long. There shall be a 1 inch wide by 2 inch long piece of hook fastener tape sewn to the underside of the strap and a corresponding 1 inch wide by 5 inch long piece of loop fastener tape sewn to the cuff to allow for adjustment.

ZIP-UP COLLAR

- The collar shall be of one-piece, three-layer design measuring approximately 3 inches high and graded to size. The outer layers shall consist of outer shell material, with a layer of specified moisture barrier sandwiched between (see Moisture Barrier section). The inside ply of moisture barrier shall be sewn to the outer shell at the edges only. The left and right side of the collar ends zip together as an extension of the complete coat closure system and are further secured with the double storm flap consisting of FR Velcro® fastener tape (see Storm Flap And Coat Front Closure System section). The multi-layered configuration shall provide protection from water and other common chemicals. There shall be angled collar pockets with diagonal openings at top corners of the collar constructed of a double layer of outer-shell material. (The corners of the optional Fleece Liner collar shall tuck into the openings for storage.)
- Stitching of the collar shall be on the periphery along the top and front edges only to maintain waterproof integrity.

INTERIOR HANGER LOOP

- There shall be a collar hanger loop sewn to the center juncture of the collar. The hanger loop shall be constructed of self-material measuring approximately 2 inches long and ½ inches wide.

EPAULETS

- The epaulets shall be 2 inches wide. The ends of the epaulets shall be sewn into the sleeve joining seam and the collar-joining seam of the coat. Epaulets shall be constructed of two plies of shell fabric. The epaulets shall be topstitched along the periphery and securely backtacked on all four openings leaving a minimum 2½ inch opening in the center for the user to clip on an external microphone or other equipment.

DUAL ACTION POCKETS

- The double entry pleated patch pockets shall measure approximately 9 inches wide by 8 ½ inches high. The front pocket shall be pleated to provide expansion. A pocket flap with mitered corners measuring approximately 7½ inches long 2¾ inches wide at the center, will cover the top opening of the front pocket. There shall be two 1 inch by 2 inch pieces of FR Velcro® at each flap and pocket corner for closure. The outside (top) edge of the pocket and pocket flap shall be securely backtacked.
- 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.
- The handwarmer pocket shall be lined with fleece material for extra warmth.

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SPECIFICATIONS (cont'd)

GROUP TWO – Technical Rescue Gear (cont.)

COAT FRONT FACINGS

- The inside front facing shall have zipper tracks to accommodate a zip-out liner Coat. Facings shall be 1¼ inch wide. Liner zippers shall be set from the top of the collar and extend towards the hem.

STORM FLAP

- The front closure shall incorporate a double storm flap. There shall be top and under storm flaps both covering the front zipper. Both storm flaps shall be constructed of two layers of outer shell material, with a center layer of moisture barrier. The top flap shall measure 2½ inches wide and will be sewn on the left front body panel of the Coat. The under storm flap shall measure 1⅞ inches wide and will be sewn on the right side body panel. The storm flaps shall extend from the top of the collar to within 4 inches from the bottom of the coat.

STORM FLAP AND COAT FRONT CLOSURE SYSTEM

- The Coat shall be closed by means of a heavy duty zipper on the Coat fronts and FR Velcro® fastener tape on the storm flaps. The front zipper shall be delrin, one-way, size #5, and sized appropriately. The storm flaps shall close over the left and right Coat body panels and shall be secured to each other with flame resistant FR Velcro® fastener tape. A 1 inch by full length piece of loop fastener tape shall be installed along the underside of the top storm flap. A corresponding 1 inch by full length piece of hook fastener tape shall be sewn to the front of the under storm flap and positioned to engage the loop fastener tape when the storm flaps are closed over the front of the Coat.

RETROREFLECTIVE FLUORESCENT TRIM & REINFORCED TRIM STITCHING

- Each coat shall have an adequate amount of retroreflective fluorescent trim affixed to the outside of the outer shell. Trim shall not extend over the storm flap.
- The retroreflective fluorescent trim shall be 3" lime/yellow 3M Scotchlite™ Triple Trim (L/Y borders with silver center).
- **HV style;** trim stripes - around the bottom of the coat within approximately 1 inch of the hem, horizontally across the chest area approximately 3 inches below the armpit, around each sleeve below the elbow, around each sleeve above the elbow, across the shoulders on the back approximately 7½ inches below the neck seam, two vertical stripes on the back (one on each side) beginning at the top of the bottom band of trim and extending up to the bottom of the upper band of trim.
- All reflective trim shall be secured to the outer shell with Nomex® thread, using a locking chainstitch protected by a strip of 3/32-inch strong, durable, flame resistant black Kevlar® cording providing a bed for the stitching along each edge of the retroreflective fluorescent trim surface and affording extra protection for the thread from abrasion. This method 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 this described system 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.

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SPECIFICATIONS (cont'd)

GROUP TWO – Technical Rescue Gear (cont.)

SEWN ON RETROREFLECTIVE LETTERING

- Each coat shall have 3" lime/yellow 3M Scotchlite™ lettering on upper back reading: B F R S.

REMOVABLE FLEECE LINED COAT

- There shall be an optional zip-out waist-length fleece coat which can also be used separately as an outer coat. The bottom hem and cuffs shall be finished with Lycra binding for comfort. The inside neck seam shall be finished with bias cut binding and the on seam pockets shall be finished with 0.5 inch twill on the inside for durability.

PANT CONSTRUCTION

STITCHING

- The outer shell shall be assembled using stitch type #301, #401 and #516. The moisture barrier shall be assembled using stitch type #301, and #516. Stitching in all seams shall be continuous. There shall be no joined stitching in midseam. All major A outer shell structural seams, major B structural liner seams, and minor seams including but not limited to pockets, flaps, and material reinforcements, shall have a minimum of 8 to 10 stitches per inch.

SEALED MOISTURE BARRIER SEAMS

- All moisture barrier seams shall be sealed with 2-layer Gore-Seam tape 1.0 inch in width compatible with the permanent waterproof-breathable lining using GORE Seam Sealing machines. 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. The tape shall not be affected by weather, temperature or storage. The taped seams shall be tested for waterproofing in accordance with Federal Test Std. #191A, Method #5516 when new and after 25 wash/dry cycles and dry cleanings. There shall be no appearance of water in the test area at 3 PSI for a period of 2 minutes.

LINER ACCESS OPENING

- There shall be a liner access opening at the fly to allow for inspection.

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.

WAISTBAND

- The pant shall incorporate a 2 inch wide elasticized waistband. The top of the outer shell body panels shall be folded over the elasticized band and sewn with 2 rows of stitching approximately 1¾ inches apart to form the waistband. 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 to form a loop.

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SPECIFICATIONS (cont'd)

GROUP TWO – Technical Rescue Gear (cont.)

PANT CLOSURE SYSTEM

- The fly flap shall be constructed of two pieces of outer shell material with a center ply of Crosstech S/R moisture barrier sandwiched in between. The fly flap shall be stitched to the left front body panel and shall measure 3½ inches wide and the length shall be graded to size. Flame resistant hook and loop fastener tape shall close the flap. The loop portion of FR fastener tape shall be sewn to the inside of the leading edge of the external fly flap. The corresponding hook portion of FR fastener tape shall be sewn to the right front body panel positioned to engage the loop portion when the external fly flap is in the closed position.
- Appropriate hook & loop fastener tape measuring approximately 1 inch by 2 inches shall be installed at the leading edge of the waistband for the purpose of alignment and further securing the trousers in the closed position.
- **(zipper/FR Velcro®)** The internal fly flap closure shall consist of a heavy duty high-temp polymer zipper and 1 inch wide by full length flame resistant hook and loop fastener tape. The teeth of the zipper shall be mounted on Nomex® cloth and shall be sewn into the leading edges of the respective left and right front body panels from the crotch area to the waist band.

RETROREFLECTIVE FLUORESCENT TRIM & REINFORCED TRIM STITCHING

- Each pant shall have an adequate amount of retroreflective fluorescent trim affixed to the outside of the outer shell around the cuffs.
- The retroreflective fluorescent trim shall be 3” lime/yellow 3M Scotchlite™ Triple Trim (L/Y borders with silver center).
- All reflective trim shall be secured to the outer shell with Nomex® thread, using a locking chainstitch protected by a strip of 3/32-inch strong, durable, flame resistant black Kevlar® cording providing a bed for the stitching along each edge of the retroreflective fluorescent trim surface and affording extra protection for the thread from abrasion. This method 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 this described system 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.

POCKETS

- There shall be pleated pockets centered and sewn across the outseam of each leg set approximately 12 inches down from the top of the waistband. The pockets shall measure approximately 9 inches wide by 8 ½ inches deep. The pocket front shall incorporate two vertical expansion pleats. 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 have mitered corners and shall measure approximately 3 inches wide by 9 ¼ inches long. There shall be two 1 inch by 2 inch pieces of hook and loop fastener tape at each flap and pocket corner for closure. The pocket shall be securely backtacked at the top on each side.

HIP PATCH POCKET

- The pants shall be equipped with a hip style patch pocket measuring approximately 6 ½ inches wide by 6 inches deep, located on the right hip. The pocket flap shall be constructed of two layers of outer shell material, rectangular in shape, and shall measure 1½ inches high and 6½ inches wide. The pocket and pocket flap shall be stitched to the right back body panel approximately 3 inches down from the top of the waistband.

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SPECIFICATIONS (cont'd)

GROUP TWO – Technical Rescue Gear (cont.)

HIP PATCH POCKET

- The pants shall be equipped with a hip style patch pocket measuring approximately 6 ½ inches wide by 6 inches deep, located on the right hip. The pocket flap shall be constructed of two layers of outer shell material, rectangular in shape, and shall measure 1½ inches high and 6½ inches wide. The pocket and pocket flap shall be stitched to the right back body panel approximately 3 inches down from the top of the waistband.

ZIPPERED LEG

- The lower legs shall be equipped with zippered openings on the outseams of the pants to ease donning and doffing. A zipper shall close each lower leg portion of the outer shell. The leg zippers shall extend 17 inches up from the bottom of the cuff and will close in the down position. A 2-layer panel expansion gusset shall be installed on the inside of each leg corresponding to the opening to provide extra fullness from the knee area to the cuff. It shall be constructed of outer shell material and moisture barrier material as previously specified. The panel shall be shaped like an elongated triangle, measuring approximately 8 inches wide at the bottom and tapering to a point at the top. The panel shall be sewn to the respective layers of the garment and will assure there is no interruption in protection to the legs, whether the zipper is open or closed.

PANT CUFF ADJUSTABLE STRAPS

- The pants shall be equipped with adjustable straps near the cuffs. The straps shall be constructed of a double layer of outer shell material and measure approximately 1 inch wide by 4½ inches long and sewn to the cuff on one end. There shall be a 1 inch wide by 3 inch long piece of hook fastener tape sewn to the underside of the strap on the opposite end. A corresponding piece of 1 inch wide by 5 inch long piece of loop fastener tape will be sewn horizontally along the cuff and positioned to engage the strap to allow for adjustment.

PANT CUFF

- The lower leg body panels shall be turned to the inside of the pants approximately 1-inch and stitched to form a cuff.

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 twill measuring approximately ¾ 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 strap webbing. 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.

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**RYAN FOUST, SENIOR BUYER
EDWARD WILLIAMS, ASST. PURCHASING AGENT**

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SPECIFICATIONS (cont'd)

GROUP TWO – Technical Rescue Gear (cont.)

PADDED RIP-CORD SUSPENDERS & ATTACHMENT (cont.)

- 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 non-slip metal slides. 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 attachment to themselves securing the suspender to the pant.

KNEE REINFORCEMENTS

- The knee area shall be reinforced with grey Ara-Shield® material.
- The knee reinforcement shall be centered on the leg to insure proper coverage when bending, kneeling and crawling. The knee reinforcements shall be double stitched to the outside of the outer shell in the knee area for greater strength and abrasion resistance.
- The lower edge of the Ara-Shield® knee reinforcement shall be turned under so that the lower row of stitching is covered and protected from abrasion.

PADDING UNDER KNEE REINFORCEMENTS

- Padding for the knees shall be accomplished with one layer of neoprene coated aramid batt and one layer of quilted aramid batt. Both layers of padding shall be sandwiched between the shell and the knee reinforcement layers. The neoprene shall face outward.

(GROUP THREE EMS SPECS BEGINS FOLLOWING PAGE)

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SPECIFICATIONS (cont'd)

GROUP THREE – EMS Rescue Gear

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 Emergency Medical Operations. All materials and construction will meet or exceed NFPA Standard 1999 (current edition) Standard on Protective Clothing for Emergency Medical Operations.

THIRD PARTY TESTING AND LISTING PROGRAM

- The manufacturer will furnish written certification of all materials utilized in the construction of the garments and the finished garments shall comply with the criteria as specified in the general provisions of this specification.
- Protective coats that are represented as being compliant with NFPA 1999 Standard on Protective Clothing for Emergency Medical Operations, current edition, shall be certified as so.
- Certification shall be performed by Underwriters Laboratories, NO EXCEPTIONS. Such certification shall be denoted by the Underwriters Laboratories mark on the product label.
- Successful bidder shall provide written certification that the protective coat complies with the criteria of this section.

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 #1999
 - Underwriters Laboratories classified mark
 - Manufacturer's name
 - Manufacturer's address
 - Manufacturer's garment identification number
 - Date of manufacture
 - Size
 - If PPE is sized for particular firefighter, that firefighters name shall be on a label.

ISO CERTIFICATION / REGISTRATION

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

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SPECIFICATIONS (cont'd)

GROUP THREE – EMS Rescue Gear (cont.)

BETTER BUSINESS BUREAU:

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

WARRANTY:

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

REQUIREMENTS

- Protective coat manufactured to this specification shall, meet or exceed the requirements set forth in NFPA 1999 Standard on Protective Clothing for Emergency Medical Operations, current edition to include all temporary interim amendments.
- Where specific information is provided, it is done so to establish a minimum level of quality, design, and/or performance.
- It is not the intention of this specification to limit or restrict the use of alternate methods however; where exceptions, deviations or clarifications are noted, a detailed explanation shall be provided describing how they are equal to or greater than the item specified.

SIZING BY VENDOR:

- Both male and female sizing samples shall be available.
- The jacket length shall be measured from the juncture of the collar and back panel to the hem of the jacket and shall measure 32 inches long.
- The jacket shall be available in even size chest measurements of two-inch increments, and shall range from a small size of 30 to a large size of 68. Generalized sizing, such as small, medium, large, etc., will not be considered acceptable. Sizing specifically for women shall also be available. Vendor shall provide onsite custom sizing on the request of BFRS.
- The pants shall be available in even size waist measurements of two inch increments and shall be available in a range of sizes from 24 to 68. The pant inseam measurement shall be available in two inch increments. Generalized sizing, such as small, medium, large, etc., will not be considered acceptable. Sizing specifically for women shall also be available. Vendor shall provide onsite custom sizing on the request of BFRS.

SAMPLE FOR INSPECTION

- The apparent low bidder shall submit one (1) complete set of gear for inspection to determine that the gear bid will be in compliance with the specifications. Gear shall be submitted upon notification by the BFRS and delivered within 30 days of the notice. Failure to submit or the determination that the Sample is non-compliant will be cause to reject the bid.

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SPECIFICATIONS (cont'd)

GROUP THREE – EMS Rescue Gear (cont.)

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.

MATERIALS AND CONSTRUCTION SPECS

OUTER SHELL MATERIAL - JACKETS AND PANTS

- The outer shell shall be constructed of TENCATE "**BRIGADE™ (DEFENDER) 600**" Nomex® IIIA aramid, also known as "BRIGADE 600" with an approximate weight of 6 oz. per square yard and shall be of plain weave. The shell material must be treated with **SST (SUPER SHELLTITE)** which is a durable water-repellent finish that also enhances abrasion resistance. Bids offering this shell material without the SST will not be considered. Color of garments to be Navy Blue

MOISTURE BARRIER - JACKETS AND PANTS

- The permanent waterproof-breathable lining shall consist of a **CROSSTECH® EMS** waterproof-breathable membrane laminated to a woven polyester fabric (W.L. Gore US101) resulting in a washable waterproof material with high moisture vapor transmission, blood-borne pathogen resistance, and common chemical resistance. A 7.5 inch by 9.5 inch pocket, constructed of self material, shall be affixed to the inside of the coat liner on the left side by means of a lock stitch.

STITCHING

- The outer shell shall be assembled using stitch type #301, #401 and #516. The moisture barrier shall be assembled using stitch type #301 and #516. Stitching in all seams shall be continuous. There shall be no joined stitching in midseam. All major A outer shell structural seams, major B structural liner seams, and minor seams including but not limited to pockets, flaps, and material reinforcements, shall have a minimum of 8 to 10 stitches per inch.

JACKET CONSTRUCTION

BODY

- The body of the shell shall be constructed of three separate body 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.

LINER ACCESS OPENING - JACKET

- There shall be a liner access opening at the bottom back of the coat to allow for inspection. The opening shall have one snap tab, slightly offset from the middle, to secure the liner to the outer shell.

SIZING

- The jacket length shall be measured from the juncture of the collar and back panel to the hem of the jacket and shall measure 32 inches long. The jacket shall be available in even size chest measurements of two-inch increments, and shall range from a small size of 30 to a large size of 68. Generalized sizing, such as small, medium, large, etc., will not be considered acceptable. Sizing specifically for women shall also be available. Vendor shall provide onsite custom sizing on the request of BFRS.

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SPECIFICATIONS (cont'd)

GROUP THREE – EMS Rescue Gear (cont.)

SLEEVES

- Sleeves shall be 2-piece, drop shoulder style, with FR Velcro® cuff closure and epaulets. To provide access to the shell for sewing on emblems on sleeves without damaging the waterproof-breathable permanent lining; there shall be a liner access opening at the bottom of the coat. There shall be a ½ inch wide ribbon loop inserted in the sleeve inseam of the lining to attach the optional fleece liner coat.

SLEEVE CUFF ADJUSTABLE STRAPS

- The sleeve shall terminate at the cuff with an adjustable strap. The strap shall be constructed of a double layer of outer shell material and measure approximately 1 inch wide by 3 inches long. There shall be a 1 inch wide by 2 inch long piece of hook fastener tape sewn to the underside of the strap and a corresponding 1 inch wide by 5 inch long piece of loop fastener tape sewn to the cuff to allow for adjustment.

ZIP-UP COLLAR

- The collar shall be of one-piece, three-layer design measuring approximately 3 inches high and graded to size. The outer layers shall consist of outer shell material, with a layer of specified moisture barrier sandwiched between (see Moisture Barrier section). The inside ply of moisture barrier shall be sewn to the outer shell at the edges only. The left and right side of the collar ends zip together as an extension of the complete coat closure system and are further secured with the double storm flap consisting of FR Velcro® fastener tape (see Storm Flap And Coat Front Closure System section). The multi-layered configuration shall provide protection from water and other common chemicals. There shall be angled collar pockets with diagonal openings at top corners of the collar constructed of a double layer of outer-shell material. (The corners of the optional Fleece Liner collar shall tuck into the openings for storage.)
- Stitching of the collar shall be on the periphery along the top and front edges only to maintain waterproof integrity.

INTERIOR HANGER LOOP

- There shall be a collar hanger loop sewn to the center juncture of the collar. The hanger loop shall be constructed of self material measuring approximately 2 inches long and ½ inches wide.

EPAULETS

- The epaulets shall be 2 inches wide. The ends of the epaulets shall be sewn into the sleeve joining seam and the collar-joining seam of the coat. Epaulets shall be constructed of two plies of shell fabric. The epaulets shall be topstitched along the periphery and securely backtacked on all four openings leaving a minimum 2½ inch opening in the center for the user to clip on an external microphone or other equipment.

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SPECIFICATIONS (cont'd)

GROUP THREE – EMS Rescue Gear (cont.)

DUAL ACTION POCKETS

- The double entry pleated patch pockets shall measure approximately 9 inches wide by 8 ½ inches high. The front pocket shall be pleated to provide expansion. A pocket flap with mitered corners measuring approximately 7½ inches long 2¾ inches wide at the center, will cover the top opening of the front pocket. There shall be two 1 inch by 2 inch pieces of FR Velcro® at each flap and pocket corner for closure. The outside (top) edge of the pocket and pocket flap shall be securely backtacked.
- 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.
- The handwarmer pocket shall be lined with fleece material for extra warmth.

COAT FRONT FACINGS

- The inside front facing shall have zipper tracks to accommodate a zip-out liner coat. Facings shall be 1¼ inch wide. Liner zippers shall be set from the top of the collar and extend towards the hem.

STORM FLAP

- The front closure shall incorporate a double storm flap. There shall be top and under storm flaps both covering the front zipper. Both storm flaps shall be constructed of two layers of outer shell material, with a center layer of moisture barrier. The top flap shall measure 2½ inches wide and will be sewn on the left front body panel of the coat. The under storm flap shall measure 1⅞ inches wide and will be sewn on the right side body panel. The storm flaps shall extend from the top of the collar to within 4” from the bottom of the coat.

STORM FLAP AND COAT FRONT CLOSURE SYSTEM

- The coat shall be closed by means of a heavy duty zipper on the coat fronts and FR Velcro® fastener tape on the storm flaps. The front zipper shall be delrin, one-way, size #5, and sized appropriately. The storm flaps shall close over the left and right coat body panels and shall be secured to each other with flame resistant FR Velcro® fastener tape. A 1 inch by full length piece of loop fastener tape shall be installed along the underside of the top storm flap. A corresponding 1 inch by full length piece of hook fastener tape shall be sewn to the front of the under storm flap and positioned to engage the loop fastener tape when the storm flaps are closed over the front of the coat.

RETROREFLECTIVE FLUORESCENT TRIM & REINFORCED TRIM STITCHING

- Each coat shall have an adequate amount of retroreflective fluorescent trim affixed to the outside of the outer shell. Trim shall not extend over the storm flap.
- The retroreflective fluorescent trim shall be 3” lime/yellow 3M Scotchlite™ Triple Trim (L/Y borders with silver center).

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SPECIFICATIONS (cont'd)

GROUP THREE – EMS Rescue Gear (cont.)

- **HV style;** trim stripes - around the bottom of the coat within approximately 1 inch of the hem, horizontally across the chest area approximately 3 inches below the armpit, around each sleeve below the elbow, around each sleeve above the elbow, across the shoulders on the back approximately 7½ inches below the neck seam, two vertical stripes on the back (one on each side) beginning at the top of the bottom band of trim and extending up to the bottom of the upper band of trim.
- All reflective trim shall be secured to the outer shell with Nomex® thread, using a locking chainstitch protected by a strip of 3/32-inch strong, durable, flame resistant black Kevlar® cording providing a bed for the stitching along each edge of the retroreflective fluorescent trim surface and affording extra protection for the thread from abrasion. This method 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 this described system 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.

SEWN ON RETROREFLECTIVE LETTERING

- Each coat shall have 3” lime/yellow 3M Scotchlite™ lettering on upper back reading: B F R S.

EMBLEMS

- Each coat shall have a 3-inch Star of Life sewn to the coat and located on left chest.

STETHOSCOPE POCKET

- EMS Stethoscope pocket shall have a finished measurement from the zipper of approximately 11.25 inches tall, sloping from 3 inches across the top to a measurement of 7 inches across the bottom.

SIDE ZIPPERS

- The coat will be equipped with side zippers for access to equipment worn on a belt. The side zippers will be a one way design approximately 15 inches long, graded to size and will begin at the hem. The action of the zipper will close downward to the hem of the coat.

REMOVABLE FLEECE LINED COAT

- There shall be an optional zip-out waist-length fleece coat which can also be used separately as an outer coat. The bottom hem and cuffs shall be finished with Lycra binding for comfort. The inside neck seam shall be finished with bias cut binding and the on seam pockets shall be finished with 0.5 inch twill on the inside for durability.

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SPECIFICATIONS (cont'd)

GROUP THREE – EMS Rescue Gear (cont.)

PANT CONSTRUCTION

LINER ACCESS OPENING

- There shall be a liner access opening at the fly to allow for inspection.

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.

WAISTBAND

- The pant shall incorporate a 2 inch wide elasticized waistband. The top of the outer shell body panels shall be folded over the elasticized band and sewn with 2 rows of stitching approximately 1¼ inches apart to form the waistband. 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.

PANT CLOSURE SYSTEM

- The fly flap shall be constructed of two pieces of outer shell material with a center ply of Crosstech S/R moisture barrier sandwiched in between. The fly flap shall be stitched to the left front body panel and shall measure 3½ inches wide and the length shall be graded to size. Flame resistant hook and loop fastener tape shall close the flap. The loop portion of FR fastener tape shall be sewn to the inside of the leading edge of the external fly flap. The corresponding hook portion of FR fastener tape shall be sewn to the right front body panel positioned to engage the loop portion when the external fly flap is in the closed position.
- Appropriate hook & loop fastener tape measuring approximately 1 inch by 2 inches shall be installed at the leading edge of the waistband for the purpose of alignment and further securing the trousers in the closed position.
- **(zipper/FR Velcro®)** The internal fly flap closure shall consist of a heavy duty high-temp polymer zipper and 1 inch wide by full length flame resistant hook and loop fastener tape. The teeth of the zipper shall be mounted on Nomex® cloth and shall be sewn into the leading edges of the respective left and right front body panels from the crotch area to the waist band.

RETROREFLECTIVE FLUORESCENT TRIM & REINFORCED TRIM STITCHING

- Each pant shall have an adequate amount of retroreflective fluorescent trim affixed to the outside of the outer shell around the cuffs.
- The retroreflective fluorescent trim shall be 3" lime/yellow 3M Scotchlite™ Triple Trim (L/Y borders with silver center).
- All reflective trim shall be secured to the outer shell with Nomex® thread, using a locking chainstitch protected by a strip of 3/32-inch strong, durable, flame resistant black Kevlar® cording providing a bed for the stitching along each edge of the retroreflective fluorescent trim surface and affording extra protection for the thread from abrasion. This method 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 this described system 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.

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SPECIFICATIONS (cont'd)

GROUP THREE – EMS Rescue Gear (cont.)

POCKETS

- There shall be pleated pockets centered and sewn across the outseam of each leg set approximately 12 inches down from the top of the waistband. The pockets shall measure approximately 9 inches wide by 8 ½ inches deep. The pocket front shall incorporate two vertical expansion pleats. 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 have mitered corners and shall measure approximately 3 inches wide by 9 ¼ inches long. There shall be two 1 inch by 2 inch pieces of hook and loop fastener tape at each flap and pocket corner for closure. The pocket shall be securely backtacked at the top on each side.

HIP PATCH POCKET

- The pants shall be equipped with a hip style patch pocket measuring approximately 6 ½ inches wide by 6 inches deep, located on the right hip. The pocket flap shall be constructed of two layers of outer shell material, rectangular in shape, and shall measure 1½ inches high and 6½ inches wide. The pocket and pocket flap shall be stitched to the right back body panel approximately 3 inches down from the top of the waistband.

ZIPPERED LEG

- The lower legs shall be equipped with zippered openings on the outseams of the pants to ease donning and doffing. A zipper shall close each lower leg portion of the outer shell. The leg zippers shall extend 17 inches up from the bottom of the cuff and will close in the down position. A 2-layer panel expansion gusset shall be installed on the inside of each leg corresponding to the opening to provide extra fullness from the knee area to the cuff. It shall be constructed of outer shell material and moisture barrier material as previously specified. The panel shall be shaped like an elongated triangle, measuring approximately 8 inches wide at the bottom and tapering to a point at the top. The panel shall be sewn to the respective layers of the garment and will assure there is no interruption in protection to the legs, whether the zipper is open or closed.

PANT CUFF ADJUSTABLE STRAPS

- The pants shall be equipped with adjustable straps near the cuffs. The straps shall be constructed of a double layer of outer shell material and measure approximately 1 inch wide by 4½ inches long and sewn to the cuff on one end. There shall be a 1 inch wide by 3 inch long piece of hook fastener tape sewn to the underside of the strap on the opposite end. A corresponding piece of 1 inch wide by 5 inch long piece of loop fastener tape will be sewn horizontally along the cuff and positioned to engage the strap to allow for adjustment.

PANT CUFF

- The lower leg body panels shall be turned to the inside of the pants approximately 1-inch and stitched to form a cuff.

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SPECIFICATIONS (cont'd)

GROUP THREE – EMS Rescue Gear (cont.)

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 twill measuring approximately 5/8 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 strap webbing. 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.
- 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 non-slip metal slides. 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 attachment to themselves securing the suspender to the pant.

KEVLAR TWILL POUCH (Expansion pocket only)

- The expansion pockets shall be fully lined with a Kevlar Twill Pouch to include the front, back, bottom and sides.

POCKET DIVIDER

- The right side expansion pocket shall be equipped with a vertical divider separating the pocket into two compartments. The divider will split the pocket 1/3rd from the rear.

PANT CUFF REINFORCEMENTS

- The cuff area of the pants shall be reinforced with black Ara-Shield[®] material. The cuff reinforcement shall not be less than 1 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.

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SPECIFICATIONS (cont'd)

GROUP THREE – EMS Rescue Gear (cont.)

KNEE REINFORCEMENTS

- The knee area shall be reinforced with grey Ara-Shield® material.
- The knee reinforcement shall be centered on the leg to insure proper coverage when bending, kneeling and crawling. The knee reinforcements shall be double stitched to the outside of the outer shell in the knee area for greater strength and abrasion resistance. The lower edge of the Ara-Shield® knee reinforcement shall be turned under so that the lower row of stitching is covered and protected from abrasion.

PADDING UNDER KNEE REINFORCEMENTS

- Padding for the knees shall be accomplished with one layer of neoprene coated aramid batt and one layer of quilted aramid batt. Both layers of padding shall be sandwiched between the shell and the knee reinforcement layers. The neoprene shall face outward.

(BID FORM BEGINS ON FOLLOWING PAGE)

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BID FORM

Edward Williams
Assistant Purchasing Agent
Birmingham, Alabama

Submitted below is my firm bid for Firefighter Turnout Gear, for the City of Birmingham. Per Section 3-3-7(7) of the General City Code for the City of Birmingham, the proposed contract shall be in effect for a minimum of one (1) year. Upon approval of both parties, the life of this contract shall exist with the provision that no price increase in the original bid prices shall be allowed, in accordance with your Invitation to Bid and Specifications dated May 31, 2023. Prices quoted are f.o.b. Birmingham, AL, and I am bidding in exact accordance with the specifications except as listed below.

| GROUP ONE – STRUCTURAL FIREFIGHTING GEAR | | | | | |
|---|--|-----|------------|------------|------------|
| <i>*per specifications, pages 8-20</i> | | | | | |
| # | Description | Qty | Make/Style | Unit Price | Ext. Total |
| 1 | Turnout Pants with suspenders, per specifications, or approved equal. | 100 | | \$ | \$ |
| 2 | Turnout Suspenders only, per specifications, or approved equal. | 50 | | \$ | \$ |
| 3 | Turnout Coats, per specifications, or approved equal. | 100 | | \$ | \$ |
| 4 | Turnout Coats, Nomex Material (Battalion Chiefs,) per specifications, or approved equal. | 12 | | \$ | \$ |
| TOTAL GROUP ONE | | | | | \$ |

| GROUP TWO – TECHNICAL RESCUE GEAR | | | | | |
|--|--|-----|------------|------------|------------|
| <i>*per specifications, pages 21-29</i> | | | | | |
| # | Description | Qty | Make/Style | Unit Price | Ext. Total |
| 1 | Technical Gear Pants with Suspenders, per specifications, or approved equal. | 35 | | \$ | \$ |
| 2 | Technical Suspenders only, per specifications, or approved equal. | 20 | | \$ | \$ |
| 3 | Technical Gear Coats, per specifications, or approved equal. | 35 | | \$ | \$ |
| TOTAL GROUP TWO | | | | | \$ |

(bid form continues on following page)

NAME OF YOUR COMPANY _____

**CITY OF BIRMINGHAM-PURCHASING DIVISION
710 NORTH 20TH STREET
P-100 CITY HALL
BIRMINGHAM, AL 35203-2227
OFFICE: (205) 254-2265 / FAX: (205) 254-2484**

**RYAN FOUST, SENIOR BUYER
EDWARD WILLIAMS, ASST. PURCHASING AGENT**

**May 31, 2023
ITB: 23-61**

BID FORM (cont'd)

| GROUP THREE – EMS RESCUE GEAR <i>*per specifications on pages 30-39</i> | | | | | |
|---|--|-----|------------|------------|------------|
| # | Description | Qty | Make/Style | Unit Price | Ext. Total |
| 1 | EMS Rescue Gear Pants with suspenders, per specifications or approved equal. | 30 | | \$ | \$ |
| 2 | EMS Rescue Suspenders only, per specifications, or approved equal. | 20 | | \$ | \$ |
| 3 | EMS Rescue Gear Coats, per specifications, or approved equal. | 20 | | \$ | \$ |
| 4 | Replacement Fleece Liners, per specifications, or approved equal. | 12 | | \$ | \$ |
| TOTAL GROUP THREE | | | | | \$ |
| GRAND TOTAL GROUPS 1-3 | | | | | \$ |

MAXIMUM DISCOUNT:

Guaranteed discount if bid is renewed for 2nd year: _____%

Guaranteed discount if bid is renewed for 3rd year: _____%

***PLEASE ATTACH A COPY OF YOUR WARRANTY AS PART OF YOUR BID SUBMISSION**

| | |
|---|-------------------------|
| <p>All participating vendors are required to ensure that they have thoroughly read all specifications for the items included in this invitation to bid. Any bid not meeting specifications exactly shall include an “Exceptions to Specifications” document with their bid, clearly outlining all exceptions and demonstrating how they are fully equal to or better than the specifications provided. If no exceptions to the specifications are included in your bid packet, it is understood that you are bidding to exact specifications. Please initial in the box to the right that you understand this requirement.</p> | <p>*Bidder Initials</p> |
|---|-------------------------|

NAME OF YOUR COMPANY _____

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CERTIFICATION REGARDING DEBARMENT, SUSPENSIONS, AND OTHER RESPONSIBILITY MATTERS

(Executive Order 12549, Debarment and Suspension, 34 CFR Part 85)

Bidder/Offeror certifies to the best of its knowledge and belief, that it and its principals:

- (a) Are are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
- (b) Have have not within a three-year period preceding award of this contract been convicted of or had civil judgement rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or Local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
- (c) Are are not presently indicted for or otherwise criminally charged by a governmental entity (Federal, State or Local) with commission on any of the offenses enumerated in Paragraph (b) above; and
- (d) Have have not within a three-year period preceding award of this contract had one or more public transactions (Federal, State or Local) terminated for cause of default.
- (e) **DATA UNIVERSAL NUMBERING SYSTEM (DUNS)**
Duns number must be provided on the signature page of this document before an award can be made to facilitate System Award Management (SAM) certification <https://www.sam.gov/SAM/>
Companies that do not have a free DUNS number may visit <https://www.dnb.com/duns-number/get-a-duns.html> for more information.
The City of Birmingham does not provide DUNS numbers.

AUTHORIZED SIGNATURE

TITLE

PRINTED NAME

DATE

_____ I am unable to certify to the above statements. My explanation is attached

I hereby certify that we do not discriminate in employment of our personnel against any persons on account of race, creed, color, sex, or national origins, and acknowledge and agree that the City encourages minority – and women – owned business participation to the maximum extent possible. This policy includes Historically Underutilized Business Enterprises such as architectural firms, engineering firms, investment banking firms, other professional service providers, and construction contractors as part of the City’s business, economic and community revitalization programs.

EXCEPTIONS TO SPECIFICATIONS: (use extra pages if necessary)

Bidder acknowledges receipt of _____ addenda
(addenda numbers)

This page must be returned with bid.

U.E.I.D. # _____

Date of Bid

Name (Print legibly or Type)

Company

Title

Street Address

Signature

City State Zip

Tax ID Number

Post Office Box

E-Mail Address

City State Zip

Telephone Number

Terms of Payment

Fax Number

Delivery Date

***IF AVAILABLE, PLEASE SUBMIT COPY OF CURRENT CITY OF BIRMINGHAM BUSINESS LICENSE, AND E-VERIFY DOCUMENTATION WITH THIS BID.**

INDICATE THE FOLLOWING ADDRESSES IF DIFFERENT FROM ABOVE:

1. BID AWARD NOTICE ADDRESS: _____

2. PURCHASE ORDER ADDRESS: _____

3. REMITTANCE ADDRESS (and NAME if different than above) _____
