



**FULTON COUNTY**

**INVITATION TO BID – COMMODITIES**

**15ITB98748B-WL**

**FIREFIGHTER TURNOUT GEAR**

**For**

**FULTON COUNTY FIRE DEPARTMENT**

**BID ISSUANCE DATE: Thursday, July 23, 2015**

**Last Date to Submit Questions: August 11, 2015 @ 2:00 P.M.**

**BID DUE DATE AND TIME: August 25, 2015 @11:00 A.M. Local Time**

**PURCHASING CONTACT: William E. Long, Jr., at 404.612.7660**

**E-MAIL: [william.long@fultoncountyga.gov](mailto:william.long@fultoncountyga.gov)**

**LOCATION: FULTON COUNTY DEPARTMENT**

**130 PEACHTREE STREET, S.W., SUITE 1168**

**ATLANTA, GA 30303**

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**FULTON COUNTY GOVERNMENT**

**INVITATION TO BID**

**FIREFIGHTER TURNOUT GEAR**

Sealed Bids for the procurement of [insert commodities/goods to be purchased] will be received by the Fulton County Department of Purchasing and Contract Compliance at 130 Peachtree Street, S.W. Suite 1168 Atlanta, GA 30303, **no later than 11:00 a.m.**, local time, on **August 1, 2015**.

**PURPOSE AND SCOPE**

The purpose of this Invitation to Bid ("ITB") is to establish an indefinite quantity, firm fixed price contract to be used as the primary source for the commodities/goods listed in the attached specifications. Commodities will be ordered from time to time in such quantity as may be needed to fill any requirements of the County. As it is impossible to determine the precise quantities that may be needed during the contract period, the Vendor is obligated to deliver in minimum/maximum quantities contracted for in accordance with the specific conditions of this bid.

**METHOD OF SOURCE SELECTION**

This procurement is being conducted in accordance with all applicable provisions of the Fulton County Code of Ordinances and the specific method of source selection for the services required in this bid is Code Section 102-373, Competitive Sealed Bid.

**BID DOCUMENTS**

This document and supporting documents can be downloaded at the Fulton County Website, <http://www.fultoncountyga.gov> under "Bid Opportunities".

**PURCHASING CONTACT**

Information regarding the bid or bid requirements, either procedural or technical, may be obtained by submitting questions in writing to:

Fulton County Government  
Department of Purchasing & Contract Compliance  
Attn: Brian Richmond, Assistant Purchasing Agent  
Fulton County Public Safety Building  
130 Peachtree Street, S.W., Suite 1168  
Atlanta, Georgia 30303  
Email: [william.long@fultoncountyga.gov](mailto:william.long@fultoncountyga.gov)  
Fax: 404.893.6268  
Reference Bid #15ITB98748B-WL

Any response made by the County will be provided in writing to all Proposers by addendum. No verbal responses shall be authoritative.

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**PRE-BID CONFERENCE**

No Pre-Bid conference will be held. However, bidders who have questions regarding this bid should submit their written question to: William E. Long, Jr., Chief Assistant Purchasing Agent, Fulton County Department of Purchasing, at [William.long@fultoncountyga.gov](mailto:William.long@fultoncountyga.gov).

Fulton County does not discriminate on the basis of disability in the admission or access to its programs or activities. Any requests for reasonable accommodations required by individuals to fully participate in any open meeting, program or activity of Fulton County Government should be directed to Rholanda Stanberry, Contract Compliance Administrator at (404) 612-6304 or email: [rhoolanda.stanberry@fultoncountyga.gov](mailto:rhoolanda.stanberry@fultoncountyga.gov).

**END OF SECTION**

**15ITB98748B-WL  
FIREFIGHTER TURNOUT GEAR**

**INSTRUCTIONS TO BIDDERS, GENERAL TERMS AND CONDITIONS**

The following provisions are hereby made a part of this Invitation to Bid for Commodities Only (ITB – Commodities).

Any contract or purchase order awarded as the result of this request shall be governed by these General Terms and Conditions.

**1. BID PREPARATION**

- a. Bidders shall **SUBMIT ONE (1) ORIGINAL, SIGNED AND DATED, AND TWO (2) COPIES** on the forms provided in the Bid Document.
- b. All bids must be made on the bid forms contained herein and shall be subject to all requirements of the Agreement Documents. All bids must be regular in every respect and no interlineations, excisions, or special conditions shall be made or included in the bid by the Bidder.
- c. Lump sum, unit price and extensions of unit prices must be entered in the appropriate spaces provided on the Bid Form. The unit price for each unit bid on shall be shown and such price shall include packing, unless otherwise specified. A total shall be entered in the amount column for each item bid on. In case of a discrepancy between a unit price and extended price, the unit price will be presumed to be correct.
- d. All blank spaces must be typed or hand written in blue ink on the "Original". All dollar amounts must be BOTH in writing and figures and represent prices for the published scope of work without exceptions.
- e. The County may, in its sole discretion, reject any bid determined as irregular, a conditional bid or any bid on which there is an alteration of, or departure from the Bid Schedule attached.
- f. Erasures or other changes in the bids must be explained or noted over the signature of the Bidder. All corrections to any entry must be lined out and initialed by the Bidder. Please do not use correction tapes or fluid. Failure to do so shall render the Bidder as non-responsive and cause rejection of the bid.
- g. Failure to execute the Bid Schedule/Bid Form documents may result in Bidder being deemed non-responsive and cause rejection of the bid.
- h. The County reserves the right to award multiple contracts for the procurement of annual contracts for supplies, construction, services, professional and consultant services.

## **2. RECEIPT AND OPENING OF BIDS**

Sealed bids will be received by the Fulton County Department of Purchasing & Contract Compliance at Fulton County Public Safety Building, 130 Peachtree Street, S.W., Suite 1168 Atlanta, Georgia 30303. All submitted bids shall be time and date stamped according to the clock at the front desk of the Fulton County Department of Purchasing & Contract Compliance. The original signed Bid with two (2) copies shall be submitted in a sealed envelope, addressed to the Department of Purchasing and Contract Compliance and labeled **15ITB98748B-WL, Firefighter Turnout Gear**.

**REQUIRED SUBMITTALS:** The bidder **must complete and execute** the forms listed below and the executed Forms must be submitted with your bid submittal:

1. Bid Form
2. Acknowledgement of each Addendum (if applicable)
3. Purchasing & Contract Compliance Forms:
  - i. Form A: Non-Collusion Affidavit of Prime Bidder
  - ii. Form B: Certificate of Acceptance of Bid Requirements
  - iii. Exhibit A: Promise of Non-Discrimination
  - iv. Exhibit B: Employment Report

Any bids received after the stated time and date will not be considered. It shall be the sole responsibility of the bidder to have his/her bid delivered to the Fulton County Department of Purchasing and Contract Compliance for receipt on or before the stated time and date. If a bid is sent by U.S. Mail, the bidder shall be responsible for its timely delivery to the Purchasing Department. Bids delayed by mail will not be considered, shall not be opened, and arrangements shall be made for their return at the bidder's request and expense.

Bid shall be publicly opened, with only the names and total bid price of the bidders disclosed at the opening

## **3. CERTIFICATION OF INDEPENDENT PRICE DETERMINATION**

By submission of this bid, the bidder certifies, and in the case of joint bid each party thereto certifies as to its own organization, that in connection with this procurement:

- (1) The prices in this bid have been arrived at independently, without consultation, communication, or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other bidder or with any competitor;
- (2) Unless otherwise required by law, the prices which have been quoted in this bid have not been knowingly disclosed by the bidder and will not knowingly be disclosed by the bidder prior to the opening, directly or indirectly to any other bidder or to any competitor; and
- (3) No attempt has been made or will be made by the bidder to induce any other person or firm to submit or not to submit a bid for the purpose of restricting competition.

#### **4. MULTI-YEAR CONTRACT TERM**

The contract term shall be as defined below. The County is obligated only to pay such compensation under the contract as may lawfully be made from funds budgeted and appropriated for that purpose during the County's then current fiscal year.

##### **a. Commencement Term**

The effective date of the Purchase Order shall begin the starting date, and shall end absolutely and without further obligation on the part of the County on the 31<sup>st</sup> day of December 2015. The Commencement Term shall be subject to events of termination and the County's termination rights that are described elsewhere in this Agreement. Notwithstanding anything contained in this Agreement, the County's obligation to make payments provided under this Agreement shall be subject to the County's annual appropriations of funds for the goods, services, materials, property and/or supplies procured under this Agreement by the County's governing body and such obligation shall not constitute a pledge of the County's full faith and credit within the meaning of any constitutional debt limitation.

##### **b. Renewal Terms**

Unless the terms of this Agreement are fulfilled with no further obligation of the part of either party on or before the final date of the Commencement Term as stated above, or unless an event of termination as defined within this Agreement occurs during the Commencement Term, this Agreement may be renewed at the written option of the County upon the approval of the County Board of Commissioners for two (2) one-year ("Renewal Terms"). However, no Renewal Term of this Agreement shall be authorized nor shall any Renewal Term of this Agreement commence unless and until each Renewal Term has first been approved in writing by the County Board of Commissioners for the calendar year of such Renewal Term. If approved by the County Board of Commissioners, the First Renewal Term shall begin on the 1<sup>st</sup> day of January, 2016 and shall end no later than the 31<sup>st</sup> day of December, 2016. If approved by the County Board of Commissioners, the Second Renewal Term shall begin on the 1<sup>st</sup> day of January, 2017 and shall end no later than the 31<sup>st</sup> day of December, 2017. If the County chooses not to exercise any Renewal Term as provided in this Section, then the Term of this Agreement then in effect shall also be deemed the "Ending Term" with no further obligation on the party of either party.

##### **c. Term Subject to Events of Termination**

All "Terms" as defined within this Section are subject to the section of this Agreement which pertain to events of termination and the County's rights upon termination.

##### **d. Same Terms**

Unless mutually agreed upon in writing by the parties, or otherwise indicated herein, all provisions and conditions of any Renewal Term shall be exactly the same as those contained within in this Agreement.

##### **e. Statutory Compliance Regarding Purchase Contracts.**

The parties intend that this Agreement shall, and this Agreement shall operate in conformity with and not in contravention of the requirements of O.C.G.A. § 36-60-13,

as applicable, and in the event that this Agreement would conflict therewith, then this Agreement shall be interpreted and implemented in a manner consistent with such statute.

#### **5. EXAMINATION OF CONTRACT DOCUMENTS**

Prospective bidders shall examine the contract documents and before submitting a bid, shall make a written request to the County for an interpretation or correction of any ambiguity, in consistency or error therein which could be discovered by a bidder. At the bid opening each bidder shall be presumed to have read and be familiar with the contract documents.

#### **6. ADDENDA AND INTERPRETATIONS**

No interpretations of the meaning of the invitation to bid, specifications or other pre-bid documents will be made to any Bidder orally. Bidders requiring clarification or interpretation of the Bidding Documents shall make a request to **William E. Long, Jr.** no later than 2:00 PM, **Tuesday, August 11, 2015**. Written requests for clarification or interpretation may be mailed, hand delivered, e-mailed or faxed to the Purchasing Contact identified in the Invitation to Bid. Telephone inquiries will not be accepted.

Only communications from firms that are in writing will be recognized by the County as duly authorized expressions on behalf of bidders. Any and all such interpretations and any supplemental instructions will be in the form of written Addenda to the Specifications which, and if any addenda are issued to this Invitation to Bid. All responses to written requests for clarification, interpretation, or additional information will be distributed as addenda to this RFP and posted on the Fulton County website [www.fultoncountyga.gov](http://www.fultoncountyga.gov).

#### **7. NON-COLLUSION**

Bidder certifies that this bid is made without prior understanding, agreement or connection with any other corporation, firm or person submitting a bid for the same work, labor or service to be done or the supplies, materials or equipment to be furnished and is in all respects fair and without collusion or fraud. Bidder further understands collusive bidding is a violation of state and federal law and can result in fines, prison sentences and civil damage awards. Bidder agrees to abide by all conditions of this bid and certifies that person signing is authorized to sign this bid or proposal for the bidder.

#### **8. CONFLICT OF INTEREST**

Bidder states that no County officer or employee, nor any business entity in which they have an interest: a) Has an interest in the contract awarded; b) Has been employed or retained to solicit or aid in the procuring of the resulting contract; c) Will be employed in the performance of such contract without immediate disclosure of such fact to the County.

## 9. **BASIS OF AWARD**

*Awarded to the overall lowest responsive and responsible bidder (single bidder)*

The County shall award to the overall lowest responsive, responsible and single bidder complying with the provisions of the ITB - Commodities.

## 10. **SAMPLES**

Samples of items when required, must be furnished free of expense to the County and upon request, be returned to the Bidder at the Bidder's expense. Samples of selected items may be retained for comparison purposes.

## 11. **NEW**

All items bid must be new. Used, rebuilt and refurbished items will not be considered unless specifically authorized by Fulton County in the written specifications.

## 12. **BRAND NAME SPECIFICATIONS AND APPROVED EQUIVALENTS**

Unless otherwise specified, manufacturer's names, trade names, brand names, information and/or catalog numbers listed in the specifications are intended only to identify the quality and characteristics desired. They are not intended to limit competition. The Bidder may offer any equivalent product which meets or exceeds the specifications. If bids are based on equivalent products, the bid must: a) Indicate the alternate manufacturer's name and catalog number; b) Include complete descriptive literature and/or specifications; c) Include proof that the proposed equivalent will meet the specifications. The County reserves the right to be the sole judge of what is equal and acceptable to meet its needs in all respects. If Bidder fails to name a substitute, goods identical to the published standard must be furnished.

## 13. **INSURANCE AND RISK MANAGEMENT PROVISIONS**

The successful Bidder(s) shall, during all terms of the Contract maintain in full force and effect (i) commercial general liability insurance in the amounts of \$1,000,000.00 (each occurrence), with a \$2,000,000.00 (general aggregate), (ii) automobile liability insurance with a combined single limit for bodily injury and property damage of not less than \$500,000 with respect to any owned, hired and/or non-owned vehicles utilized in the performance of its' services. At the time of award, a copy of the successful Bidder's Certificate of Insurance must be provided through the County's online insurance compliance system.

The County has implemented an online insurance compliance system designed to make the experience of submitting and retrieval of insurance information quick and easy. This system is designed to be used by insurance brokers and agents on behalf of their insurance clients for submittal of Certificates of Insurance ("COI") directly to the Fulton County Department of Purchasing. Instructions will be provided to the successful bidder.

#### **14. INDEMNIFICATION**

Bidder hereby agrees to release, indemnify, defend and hold harmless the County, its Commissioners, officers, employees, subcontractors, successors, assigns and agents from and against any and all losses (including death), claims, damages, liabilities, costs and expenses (including but not limited to all actions, proceedings, or investigations in respect thereof and any outcome of any such action, proceeding, or investigation), caused by, relating to, based upon or arising out of any act or omission by contractor, its directors, officers, employees, subcontractors, successors, assigns or agents, or otherwise in connection with its acceptance, of the performance, or nonperformance, of its obligations under this agreements.

Bidder's obligation to protect, defend, indemnify and hold harmless, as set forth hereinabove, shall also include, but is not limited to, any matter arising out of any actual or alleged infringement of any patent, trademark, copyright, or service mark, or other actual or alleged unfair competition disparagement of product or service, or other tort or any type whatsoever, or any actual or alleged violation of trade regulations.

Bidder further agrees to protect, defend, indemnify and hold harmless Fulton County, its Commissioners, officers, employees, subcontractors, successors, assigns and agents from and against any and all claims or liability for compensation under the Worker's Compensation Act, Disability Benefits Act, or any other employee benefits act arising out of injuries sustained by any employees of Bidder. These indemnities shall not be limited by reason of the listing of any insurance coverage.

#### **15. TAXES**

Fulton County is exempt from the State of Georgia sales tax and exemption certificate will be furnished upon request.

#### **16. DELIVERY**

All prices must be FOB Destination, unloaded inside and assembled unless otherwise indicated.

#### **17. PLACEMENT OF ORDERS**

Orders will be placed using one of the following methods:

- a) A Purchase order (PO) will be issued as required for departments having a known requirement, fixed quantities, and one-time delivery, during the entire life of the contract.
- b) A Delivery Order (DO) will be issued as required for departments having a known requirement, fixed quantities, and one-time delivery, during the entire life of the contract.

## **18. RIGHTS AND REMEDIES OF COUNTY FOR DEFAULT**

If any item furnished by the Bidder fails to conform to specifications, or to the sample submitted by the Bidder, the County may reject it. Upon rejection, the Bidder must promptly reclaim and remove such item without expense to the County, and shall immediately replace all such rejected items with others conforming to such specification and samples. If the Bidder fails to do so, the County has the right to purchase in the open market a corresponding quantity of any such items and to deduct from any monies due the Bidder the difference between the prices named in the purchase order and the actual cost to the County. If the Bidder fails to make prompt delivery of any item, the County has the right to purchase such item in the open market and to deduct from any monies due the Bidder the difference between the prices named in the purchase order and the actual replacement cost to the County. The rights and remedies of the County identified above are in addition to any other rights and remedies provided by law or under the purchase order.

## **19. INVOICES AND PAYMENT TERMS**

Invoices are to be mailed to the County department specified on the resulting purchase order or master agreement. All invoices must include the purchase order number or master agreement number. Failure to comply may result in delayed payments. The County payment terms are Net 30 days unless a cash discount is allowed for payment within not less than twenty (20) days. The payment term shall begin on the date the merchandise is inspected, delivered and accepted by the County and the correct invoice is received in the office specified on the purchase order.

## **20. LEGAL REQUIREMENTS**

Federal, State, County and local ordinances, rules and regulations, and policies shall govern development, submittal and evaluation of quote and disputes about quotes. Lack of knowledge by any Bidder about applicable law is not a defense.

## **21. ASSIGNMENT**

Any purchase order awarded shall not be assignable by the Bidder without the express written approval of the County, and shall not become an asset in any bankruptcy, receivership or guardianship proceedings.

## **22. REJECTION OF BID**

Bids may be considered irregular and may be rejected if they show omissions, alternations of form, additions not called for, conditions, limitations, unauthorized alternate bids or other irregularities of any kind. The County reserves the right to waive minor technicalities or irregularities of bid.

## **23. TERMINATION**

In the event any of the provisions of the purchase order are violated, the County may serve written notice of its intention to terminate the purchase order. Such notice will

state the reason(s) for such intention, and unless within ten (10) days after serving notice upon the contractor, such violation has ceased and satisfactory arrangements for correction made, the purchase order shall, upon expiration of ten (10) days, be terminated. Further, the County reserves the right to terminate for its convenience any purchase order in whole or in part upon giving thirty (30) days prior written notice to the other party.

#### **24. DEBARMENT**

If a Bidder is presently debarred, suspended, proposed for debarment, declared ineligible, or otherwise excluded from doing business with any government agency which prohibits your firm from participating in any procurement, the Bidder must provide the County with that information as part of its response to this solicitation. Failure to fully and truthfully provide the information required, may result in the disqualification of your bid from consideration or termination of the purchase order, once awarded.

#### **25. RIGHT TO PROTEST**

Any actual bidder or offeror that has submitted a bid/proposal for a particular procurement and is aggrieved in connection with the solicitation or award of the contract shall protest in writing to the purchasing agent after the date that the specific bid or proposal is submitted. No protest will be accepted or considered prior to the date the specific bid or proposal is submitted; it will be considered untimely. All protests shall set forth in full detail the factual and legal bases for the protest and specific relief sought by the protestor. Protests arising from factual or legal bases that the protestor knew or should have known prior to the submission of the bid/proposal must be submitted within three business days of the submission of the bid/proposal. Protests arising from factual or legal bases that the protestor knew or should have known subsequent to the date the bid/proposal was submitted must be submitted within ten business days after the protestor knew or should have known of such bases, but in no event shall any protest be submitted more than ten business days after the award of the contract. Untimely protests will not be considered by the purchasing agent and will be simply denied as untimely. Decisions on timeliness by the purchasing agent are not appealable. An oral protest or a protest to an official, employee, User Department, or other person apart from the Director of Purchasing & Contract Compliance does not comply.

#### **26. BINDING AUTHORITY**

The individual submitting this bid must have binding authority to submit contracts on behalf of the responding company. By submitting a response, Bidder agrees that their bid is an offer to sell. All bidders shall comply with all Fulton County purchasing laws, policies, and procedures, as well as relevant state and federal laws, including compliance with EEOC hiring guidelines and requirements under the Americans with Disabilities Act.

#### **27. SUBMITTALS**

The following submittals must be completed and submitted with the Bid Submittal. This checklist is provided to ensure that the Bidder submits certain required information with its Bid.

	<b>Bid Submittal Check Sheet</b>	<b>Check (√)</b>
1.	<b>Bid Form w/Pricing Sheets</b>	
2.	<b>Acknowledgment of Addenda</b>	
3.	<b>Form A: Non-Collusion Affidavit of Prime Bidder</b>	
4.	<b>Form B: Certificate of Acceptance of Bid Requirements</b>	
5.	<b>Exhibit A: Promise of Non-Discrimination</b>	
6.	<b>Exhibit B: Employment Report</b>	

**END OF SECTION**

## BID FORM WITH PRICING SHEET(S)

Submitted To: Fulton County Government

Submitted By: \_\_\_\_\_

For: **Insert Project Name and Number**

Submitted on \_\_\_\_\_, 2015.

The undersigned, as Bidder, hereby declares that the only person or persons interested in the Bid as principal or principals is or are named herein and that no other person than herein mentioned has any interest in this Bid or in the Contract to be entered into; that this Bid is made without connection with any other person, company or parties making a Bid; and that it is in all respects fair and in good faith without collusion or fraud.

The Bidder further declares that he has examined the specifications and has read all instructions to Bidders and General Terms and Conditions furnished prior to the openings of bids; that he has satisfied himself relative to the commodities/goods to be provided.

THE BASE BID IS THE AMOUNT UPON WHICH THE BIDDER WILL BE FORMALLY EVALUATED AND WHICH WILL BE USED TO DETERMINE THE LOWEST RESPONSIBLE BIDDER.

The base bid may not be withdrawn or modified for a period of sixty (60) days following the receipt of bids.

**BASE BID AMOUNT** (Total of all Items Bid)

\$ \_\_\_\_\_  
(Dollar Amount in Numbers)

\_\_\_\_\_  
(Dollar Amount in Words)

The Bidder understands that the quantities shown for the unit prices items are subject to either increase or decrease, and that should the quantities of any of the item(s) be increased, the Bidder proposes to provide the additional item(s) at the unit prices stated herein; and should the quantities be decreased, the Bidder also understands that payment will be made on the basis of actual quantities at the unit price bid and will make no claim for anticipated profits for any decrease in quantities; and that actual quantities will be determined upon receipt of item(s), at which time adjustments will be made to the contract amount by direct increase or decrease.

**PRICING SHEET**

ITEM NO.	COMMODITIES OR SERVICES	ESTIMATED NUMBER OF UNITS	UNIT	UNIT PRICE	AMOUNT
1.	COAT w/NAME PANEL	165	EACH	\$	\$
2.	PANT w/SUSPENDER	165	EACH	\$	\$
3.	HELMET	165	EACH	\$	\$
4.	SHIELD/CHIEF OFFICER	165	EACH	\$	\$
5.	SHIELD/LINE PERSONNEL	165	EACH	\$	\$
6.	HOOD	165	EACH	\$	\$
7.	GLOVE	165	PAIR	\$	\$
8.	BOOT	165	PAIR	\$	\$

The undersigned acknowledges receipt of the following addenda (list by the number and date appearing on each addendum) and thereby affirms that its Bid considers and incorporates any modifications to the originally issued Bidding Documents included therein.

ADDENDUM # \_\_\_\_\_ DATED \_\_\_\_\_

ADDENDUM # \_\_\_\_\_ DATED \_\_\_\_\_



SPECIFICATIONS

A sample of items bid must be submitted. Sample items will be returned to bidders at their expense.

**ITEM NUMBER 1 - COAT w/NAME PANEL**

1. STANDARDS

- A. All garments produced shall meet or exceed the criteria set forth in the current edition of NFPA 1971 STANDARD ON PROTECTIVE ENSEMBLES FOR STRUCTURAL FIRE FIGHTING AND PROXIMITY FIRE FIGHTING, FED-OSHA CFR 1910, Subpart L, OSHA 29 CFR Part 1910.1030 and/or the requirements of CAL-OSHA title 8, Article 10.1, Para. 3406. All components and composites used in the construction of garments shall be third party tested, certified and listed for compliance to NFPA 1971. The label of the third party certification organization shall denote certification.

NO EXCEPTION

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

NO EXCEPTION

2. COMPOSITE PERFORMANCE

- A. The garment composite, consisting of the outer shell, moisture barrier and thermal liner, shall provide a Thermal Protective Performance (TPP) of not less than 35 when tested in accordance with NFPA 1971 standard.

\_\_\_\_\_ COMPLIANT      \_\_\_\_\_ EXCEPTION

- B. The garment composite, consisting of the outer shell, moisture barrier and thermal liner, shall provide a Total Heat Loss (THL) of not less than 205 when tested in accordance with NFPA 1971 standard.

\_\_\_\_\_ COMPLIANT      \_\_\_\_\_ EXCEPTION

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

\_\_\_\_\_ COMPLIANT      \_\_\_\_\_ EXCEPTION

3. OUTER SHELL MATERIAL

A. +/- 7.25 oz. /sq. yd. 40% PBI®/60% KEVLAR® ripstop weave with extremely durable FPE water resistant Teflon® FPE alloy. FPE alloy reinforced with a max of 600 denier filament KEVLAR® cables. Color shall be natural. An equivalent will be accepted or denied based on fire department's decision to do so.

4. MOISTURE BARRIER MATERIAL

A. NOMEX® substrate laminated to a lightweight breathable, CROSSTECH® (Type 2C), Teflon membrane; weighing 5.0 oz. /sq. yd. **"NO EXCEPTION"**.

5. THERMAL LINER MATERIAL

A. 3.5 oz./sq. yd. Glide™ (NOMEX® filament/spun) face cloth quilted to one layer E-89™ spunlace aramid 85%NOMEX®/15% KEVLAR® weighing approximately 2.3 oz./sq. yd. with a Teflon® finish, and one layer of apertured (11-13 apertures/sq. inch) E-89™ spunlace aramid 85% NOMEX®/15% KEVLAR® weighing approximately 1.5 oz./sq. yd. with a Teflon® finish (total weight +/- 7.3 oz./sq. yd.). An equivalent may be accepted or denied based on the fire department's decision to do so.

NO EXCEPTION

6. STRESS POINTS

A. All outer shell stress points, including top and bottom pocket corners, pocket flap corners, top and bottom of storm flap/fly shall be reinforced using a 42 stitch minimum bar tack.

\_\_\_\_\_ COMPLIANT

\_\_\_\_\_ EXCEPTION

7. REFLECTIVE TRIM

A. All trim shall be sewn with four rows lockstitch 301, minimum six stitches/inch for most secure trim attachment.

B. All trim shall be: Ventilated Trim - 3" Scotchlite II (triple trim) of lime/yellow perforated with 0.08 mm holes (114 per square inch) to provide a conduit for the release of vapor that can occur when moisture is heated and the trim compressed. An equivalent may be accepted or denied based on the fire department's decision to do so.

C. Coat trim shall be applied as follows: Viz-a-V Pattern - one 3" strip shall be set full circumference at the bottom sweep of the outer shell; one 3" strip shall be set around each sleeve approximately 2" above the cuff; one 3" strip shall be set

around each sleeve just above the elbow; one 3" strip shall be set full circumference at the chest, two 3" V shaped vertical strips shall be set at an angle from hem trim to back chest trim of coat.

D. Pant trim shall be applied as follows: One strip set full circumference around the bottom of the cuff 2"/3" from the bottom cuff.

\_\_\_\_\_COMPLIANT                      \_\_\_\_\_EXCEPTION

## 8. SIZES

- A. Coats shall be made available in even chest sizes with corresponding sleeve lengths available in short, regular, and long.
- B. Pant sizes shall be made available in even waist sizes with inseam lengths available in extra short, short, regular and long.
- C. Male and female sizing is available.

\_\_\_\_\_COMPLIANT                      \_\_\_\_\_EXCEPTION

## 9. LABELING

A. Each garment shall have a garment label(s) permanently and conspicuously attached stating at least the following language, as well as detailed warning instructions provided by the manufacturer. **"DO NOT REMOVE THIS LABEL"** and **"THIS STRUCTURAL FIREFIGHTING PROTECTIVE GARMENT MEETS THE GARMENT REQUIREMENTS OF NFPA 1971, 2007 EDITION"**.

\_\_\_\_\_COMPLIANT                      \_\_\_\_\_EXCEPTION

## 10. TRACKING LABEL SYSTEM

A. There shall be a PDF417, two dimensional bar code label permanently affixed to each garment for tracking purposes. The bar code shall contain a minimum of the following information:

1. Unique serial number
2. Item description (brand, model, material color)
3. Lot information (date of mfg., size, etc.)
4. Material description
5. The standard to which the garment is compliant

B. The bar code shall be able to withstand customary wash and wear cycles. The PDF417 bar code must incorporate a minimum of a 30% "error correction" capability.

\_\_\_\_\_COMPLIANT          \_\_\_\_\_EXCEPTION

## 11. USER INFORMATION GUIDE

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

1. Pre-use information:
  - Safety considerations.
  - Limitations of use.
  - Garment marking recommendations and restrictions.
  - A statement that most performance properties of the garment cannot be tested by the user in the field.
  - Warranty information.
2. Preparation for use:
  - Sizing/adjustment.
  - Recommended storage practices
3. Inspection:
  - Inspection frequency and details.
4. Don/Doff:
  - Donning and doffing procedures.
  - Sizing and adjustment procedures.
  - Interface issues.
5. Use:
  - Proper use consistent with NFPA 1500, *Standard on Fire Department Occupational Safety and Health Program*, and 29 CFR 1910, 132.
6. Maintenance and Cleaning:
  - Cleaning instructions and precautions with a statement advising users not to use garments that are not thoroughly cleaned and dried.
  - Inspection details.
  - Maintenance criteria and methods of repair where applicable.
  - Decontamination procedures for both chemical and biological contamination.
7. Retirement and disposal:
  - Retirement and disposal criteria and considerations.
8. Drag Rescue Device (DRD)
  - Use, inspection, maintenance, cleaning and retirement of the DRD.

\_\_\_\_\_COMPLIANT          \_\_\_\_\_EXCEPTION

## 12. WARRANTY

A. Each garment shall have a limited lifetime warranty against defects in material and workmanship.

\_\_\_\_\_COMPLIANT      \_\_\_\_\_EXCEPTION

13. V-FORCE™ BI-SWING COAT: COAT CONSTRUCTION

- A. The coat is designed of a 3-panel construction in all layers of our innovative V-fit design for optimum comfort and mobility.
- B. An inverted pleat on each side where back front and back body panel pieces meet shall be incorporated. Each pleat shall begin at the back of each shoulder and shall extend vertically down the side of the coat.
- C. A combination moisture barrier/thermal liner shall include a corresponding 1" inward dynamic fold approximately 1.5" from each sleeve seam at the shoulder. This fold shall provide for coat expansion when extending arms forward and shall interface with the inverted pleats of the outer shell to maximize mobility and function of the outer shell and thermal liner.
- D. When measured at the center of the back from the collar seam to the hem bottom, the coat shall measure 32" or 35" long (29" or 32" female). Sleeves shall be of raglan design in the front and set in design in back.

\_\_\_\_\_COMPLIANT      \_\_\_\_\_EXCEPTION

14. MOISTURE BARRIER/THERMAL LINER CONSTRUCTION

- A. Design shall be compatible with the outer shell so that the liner does not buckle, pull, or otherwise restrict body motion.
- B. The left and right fronts of the moisture barrier/thermal liner shall be attached to the facings at the front closure of the outer shell.
- C. The neck of the moisture barrier/thermal liner shall be secured to the neck of the outer shell collar such that when donning the coat an arm may not be accidentally caught between the outer shell and its inner linings along the neck between the armholes
- D. The liner shall have a 2" wide, 2-ply CROSSTECH®/NOMEX® pajama check extension sewn the full length of the neck. FR loop, 3/4" wide, shall be sewn on extension to tuck into pleat in outer shell collar.
- E. The liner shall have one 8.5" x 8.5" internal pocket which shall be made of black outer shell material. The liner pocket shall be located on the left side of coat liner.
- F. The moisture barrier shall be sewn to the thermal liner at its perimeter with the breathable membrane oriented inward toward the thermal liner and away from the outer shell. All moisture barrier seams shall be sealed as required by NFPA 1971. The moisture barrier/thermal liner shall finish no more than 1" from the cuffs and 2" from the hem.

\_\_\_\_\_COMPLIANT      \_\_\_\_\_EXCEPTION

15. MOISTURE BARRIER/THERMAL LINER ATTACHMENT

- A. The moisture barrier/thermal liner shall be completely detachable from the outer shell for ease of cleaning by the use of hook and loop, zippers, and snaps.

- B. There shall be a brass zipper down each front facing, hook and loop along the neck to interface with collar as well as hook and loop and one snap at each sleeve end.

\_\_\_\_\_COMPLIANT      \_\_\_\_\_EXCEPTION

#### 16. COAT LINER INSPECTION SYSTEM

- A. There shall be an 11" opening located on the coat liner system at the center right front of the liner. This opening will provide the ability to completely invert the coat liner to properly view the integrity of the entire liner system.
- B. There shall be one piece 1" x 4" FR loop sewn to the back side of the liner system with a piece of 1.5" x 3" FR hook sewn to the inside of the outer shell to ensure proper alignment when installing the liner system into the outer shell.
- C. This Liner Inspection System is completely hidden when the liner is properly installed into the outer shell.

\_\_\_\_\_COMPLIANT      \_\_\_\_\_EXCEPTION

#### 17. COLLAR:

- A. The collar shall be of three piece contoured 4-layer configuration such that when the collar is raised it shall remain standing while providing continuous thermal and moisture protection around the neck and face.
- B. To ensure this protection, the two layers of outer shell collar shall be fully lined with one layer of Gore Cross-tech Black™ PTFE moisture barrier material and two layers of 1.5 oz. apertured E-89™ thermal liner.
- C. The collar shall provide proper interface with liner to insure no moisture penetration through the collar seam to inside of coat.
- D. The collar shall be contoured and shall completely cover the neck and throat area when in the raised position. Raised height shall be approximately three inches with a contoured overlap at the front of the coat. Collar closure shall be provided by FR hook and loop 1.5" x 4", with hook portion sewn on right side of collar, and loop portion sewn on left, set horizontal. Collar shall be of such design so as not to interfere with SCBA facemasks, or helmet.
- E. When examined prior to donning, the turned up collar shall completely wrap around the front of the neck opening such that left and right collars touch or overlap to maximize facial protection.
- F. The three piece contoured 4-layer collar shall be sewn with a pleat on the innermost layer. Pleat shall have 3/4" FR hook sewn on the underside to engage the moisture barrier extension on the liner.

\_\_\_\_\_COMPLIANT      \_\_\_\_\_EXCEPTION

### 18. THROAT STRAP

- A. The throat strap shall be of 4-layer configuration providing continuous thermal and moisture protection around the neck and face.
- B. The throat strap shall be mounted to the outer shell collar to ensure that when the coat is closed and the collar is raised, the throat strap shall prevent any opening between the left and right collar. To ensure this protection, the inside of the throat strap shall be fully lined with one layer of Gore RT7100™ PTFE moisture barrier material and two layers of 1.5oz apertured E-89™ thermal liner.
- C. The outer most layer of the throat strap shall be outer shell material.
- D. The innermost layer facing the wearer's body shall be outer shell fabric.
- E. The throat strap shall be mounted to the outer shell collar 3.5" back from the collar facing and shall be not less than 11" long and 4" wide, contour shaped to be compatible with the SCBA facemask and secured in the stowed position with 2"x 2" FR loop on the right outside of the collar. 2" x 2" FR hook shall be sewn to the end of the throat strap and 2"x 3" corresponding FR loop shall be sewn to the outer shell material on the left side of the collar to provide maximum adjustment when wearing an SCBA breathing apparatus mask.
- F. The throat strap will close from the right to the left.

\_\_\_\_\_ COMPLIANT                      \_\_\_\_\_ EXCEPTION

### 19. DRAG RESCUE DEVICE (DRD)

- A. The Fire Fighter Recovery Harness™ shall be constructed of a one and one-half inch wide KEVLAR® strap that shall be installed between the outer shell and the thermal liner.
- B. This harness shall have a hand loop (16" in circumference) that exits the outer shell through a 2" polymer coated aramid reinforced slot on the back of the coat just below the collar and is held in place by means of a piece of 1.5" x 2" hook on the strap and a piece of 1" x 2" loop attached to the outer shell. This strap is then secured under a 2.25" x 5.25" flap that is sewn in at the neck /collar area. Two pieces 1" x 2" loop shall be set vertically on shell to align with two pieces of 1" x 2" hook set vertically to the underside of the flap.
- C. The harness shall be held in proper alignment by means of a 2" x 2" piece of loop placed on the inside of the outer shell underneath the chest trim that corresponds to a piece of 1.5"x 2" hook located on the harness. Two 1" x 3.5" self-fabric straps with 1" x 2" hook on one end and 1" x 2" loop on other end shall be set to coat in the shoulder cap area to keep straps in proper position for use.

\_\_\_\_\_ COMPLIANT                      \_\_\_\_\_ EXCEPTION

## 20. HANGER LOOP

- A. An external hanger loop constructed of a double layer of outer shell material and reinforced with two 42-stitch bartacks shall be provided on the outside of the coat at the collar seam.
- B. It shall be designed to provide long service and shall not tear or separate from the coat when the coat is hung by the hanger loop, loaded evenly with a weight of 80 lbs. and allowed to hang for one minute.

\_\_\_\_\_ COMPLIANT          \_\_\_\_\_ EXCEPTION

## 21. THERMAL REINFORCED YOKE

- A. A layer of Semper Dri™ (3.0 oz. /sq. yd. Teflon® treated Chambray (NOMEX® spun) face cloth quilted to araflo/E-89™ (total weight +/- 6.0-6.8 oz. /sq. yd.)) and a layer of quilted Araflo®/E-89™ with no facecloth shall be positioned between the moisture barrier and thermal liner for extra thermal protection in a high heat and compression area of the coat. It shall be sewn to the inside of the upper back portion of the thermal liner across the upper back from the back shoulder and collar seams 7" down, over the tops of shoulders and down the front approximately 4" ending at the armhole.

\_\_\_\_\_ COMPLIANT          \_\_\_\_\_ EXCEPTION

## 22. SHOULDER CAPS

- A. A 4" wide area at the top of the shoulders extending 6" from the collar seam shall be capped with outershell material for abrasion resistance and thermal protection.
- B. For additional thermal protection and cushioning, one layer of uninterrupted 1/8" thick, fire retardant closed-cell foam shall be oriented between the outer shell and the shoulder cap reinforcement.

\_\_\_\_\_ COMPLIANT          \_\_\_\_\_ EXCEPTION

## 23. V-FIT™ ELBOW

- A. The sleeve shall have an insert throughout all layers that shall provide a natural bend in the sleeve.
- B. This elbow shall include cut outs, shaped pieces, and darts to create free movement with few restrictions.
- C. The insert shall consist of black polymer-coated aramid for abrasion resistance and thermal protection.

\_\_\_\_\_ COMPLIANT          \_\_\_\_\_ EXCEPTION

## 24. SLEEVE WELL/WRISTLET MOUNTING

- A. A combination Semper Dri™ (3.0 oz./sq. yd. Teflon® treated Chambray (NOMEX® spun) face cloth quilted to araflo/E-89™ (total weight +/- 6.0-6.8

oz./sq. yd)) and one layer of breathable CROSSTECH® (Type 2C) moisture barrier leader shall be sewn no more than 1" back from the combination liner sleeve end to form a sleeve well.

- B. A 3/4" wide strip of FR loop fastener shall be sewn full circumference to the end of the thermal liner leader to help secure the combination liner to the outer shell. A CROSSTECH® (Type 2C) moisture barrier leader shall be sewn no more than 1" back from the combination liner sleeve end. This leader shall be approximately 4" in length and end with a gathering of 1" elastic. This sleeve well shall prevent water and hazardous materials from entering the sleeve when arms are in a raised position.
- C. The combination liner sleeve ends shall be inserted into the outer shell sleeve ends by means of lining up the snaps then attaching the FR loop fastener of the combination liner sleeve end with the FR hook fastener on the outer shell sleeve. This method of combination liner attachment shall prevent any gaps from occurring between the combination liner and sleeve well during a full range of motion. The combination liner shall extend to within 1" of the sleeve end.

\_\_\_\_\_ COMPLIANT      \_\_\_\_\_ EXCEPTION

## 25. WRISTLETS

- A. An internal wristlet shall consist of a 2-ply knit of 48% NOMEX®/48% KEVLAR® and 4% Spandex for superior recovery. Wristlet to be combination of natural and bronze colors producer dyed by DuPont, and with extremely durable Teflon® water resistant alloy not less than 8" extending completely over the palm with a thumbhole preventing the wristlet from sliding back.
- B. Wristlets shall be double stitched and bound to the moisture barrier/thermal liner providing extended thermal and slash protection. "NO EXCEPTION".

## 26. CUFFS

- A. The extended cuff of the sleeve shall be reinforced with a binding of outer shell material not less than 3" in total width for abrasion resistance and thermal protection. One leather tab with female snap fastener shall be set in the cuff to attach outer shell to liner.

\_\_\_\_\_ COMPLIANT      \_\_\_\_\_ EXCEPTION

27. THERMAL FRONT PANEL CONSTRUCTION

- A. There shall be continuous thermal and moisture protection around the entire torso including the storm flap. To ensure this protection, as well as reduce potential for wicking moisture to inside of liner, both right and left inside front facings of the coat outer shell shall incorporate outer shell fabric and CROSSTECH moisture barrier, extending from collar to hem.

\_\_\_\_\_COMPLIANT      \_\_\_\_\_EXCEPTION

28. COAT FRONT CLOSURE DESIGN

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

\_\_\_\_\_COMPLIANT      \_\_\_\_\_EXCEPTION

29. STORM FLAP

- A. A storm flap measuring not less than 2.5" wide, nor less than 22" in length shall be set on the outside of the right side of the coat opening for maximum thermal protection and clear drainage.
- B. The inner lining of the storm flap shall be CROSSTECH® PJC moisture barrier meeting all requirements for moisture barriers sandwiched between two layers of outer shell fabric.

\_\_\_\_\_COMPLIANT      \_\_\_\_\_EXCEPTION

30. FRONT/STORM FLAP CLOSURES

- A. The front closure shall consist of four snap hooks shall be set with three leather reinforced rivets at the extreme right side of the coat front underneath the storm flap. Opposite of each snap hook, a corresponding dee-ring set to the underside of the leading edge of the left coat front with two leather reinforced rivets. Three glove snaps shall be placed between the inside hook and dee-rings to assure proper closure.
- B. The storm flap closure shall consist of 2" wide loop on the inner side of the storm flap and 2" wide hook attachment on the left coat front. The hook and loop closure shall extend the full length of the outer storm flap eliminating all exposed frontal hardware.

\_\_\_\_\_COMPLIANT      \_\_\_\_\_EXCEPTION

### 31. HANDWARMER POCKET (2)

- A. There shall be an 8.5" x 8" handwarmer pocket that expand by means of a 2" pleat. The pockets shall be lined and reinforced with self-fabric 4.5" up on the inside of the pocket with a self-material backer.
- B. The pocket shall be set at the bottom of the coat hem and reflective trim shall be set on each pocket; (1) each side.
- C. Pockets and flaps shall be set with stitch 301, seam Ssb-2 with the top and bottom pocket corners and top corners of flap reinforced with bar tacks for additional strength.
- D. Drainage of moisture to be provided by brass eyelets.
- E. Pocket flap shall measure 3" x 9.5".
- F. Pocket flap shall close to the pocket using 2 pieces of 1.5" x 2.75" loop horizontally on the pocket and 2 pieces of 1.5" x 2.75" hook vertically on underside of flap.

\_\_\_\_\_COMPLIANT      \_\_\_\_\_EXCEPTION

### 32. RADIO POCKET

- A. There shall be a 3.5" wide x 9" deep full bellows radio pocket that expands by means of side and front gussets to a thickness of 2" in front and back shall be set to the left chest.
- B. Pocket and flap shall be set with stitch 301, seam Ssb-2 with the top and bottom pocket corners and top corners of flap reinforced with a minimum 42-stitch bar tack.
- C. A brass eyelet shall provide drainage of moisture.
- D. Pocket flap shall be 4.5"x 5". Pocket shall be fully lined all 3 sides inside pocket with poly-cotton lining. Pocket flap shall close to the pocket top using 1 piece of 1"x 2" loop on pocket horizontally and 1 piece of 1"x 2" hook on flap vertically.
- E. Pocket flap shall include a notch on the flap (arm side) to accommodate an antenna.

\_\_\_\_\_COMPLIANT      \_\_\_\_\_EXCEPTION

33. MIC TAB

A. There shall be a 1"x3" self-fabric mic tab bartacked on each end and set as follows to the left chest above the radio pocket. Bar tacks shall be a minimum 42-stitch bar tack.

\_\_\_\_\_COMPLIANT      \_\_\_\_\_EXCEPTION

34. FLASHLIGHT STRAP

A. There shall be a 1¼"x7" self fabric flashlight holder x-stitched to outer shell of coat at the right chest. Strap shall have 1"x 2" hook applied to one end of the strap and 1"x2" loop applied to opposite end of strap.

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

\_\_\_\_\_COMPLIANT      \_\_\_\_\_EXCEPTION

34. LETTERING

A. There shall be 3" lime/yellow Scotchlite™ letters set to the yoke to read - FULTON.

\_\_\_\_\_COMPLIANT      \_\_\_\_\_EXCEPTION

35. LETTERING PATCH

A. There shall be one 5"x18" contoured 2-layer self-fabric one-line Letter Patch attached to hang from back hem via 1.5x18" loop sewn to coat back inside at hem, 1.5x18" hook to top edge of 5x18" patch (loop sewn to hem with white thread thru the trim) and 1 male snap at top corners of letter patch & 2 female logo snaps on inside of shell to align with the male snaps.

\_\_\_\_\_COMPLIANT      \_\_\_\_\_EXCEPTION

36. LETTERING

A. There shall be 3" lime/yellow Scotchlite™ letters set to the hanging letter patch for firefighter last names.

\_\_\_\_\_COMPLIANT      \_\_\_\_\_EXCEPTION

**ITEM NUMBER 2 - PANT w/SUSPENDER**

**1. PANT CONSTRUCTION**

A. The pant shall have a low rise waist V-Fit™ design with five inch high back panel with hook and loop for support panel of Non-Stretch Padded V-Back™ suspenders (required with these pants at no additional cost). "NO EXCEPTION"

**2. EXTENDED BACK PANEL**

A. A back panel shall be constructed of two layers of outer shell material, one middle layer of moisture barrier material and one layer of thermal liner material. One piece self-fabric flap 9" wide x 5" high with 9" x 5" hook to attach suspenders. This panel shall be stitched to the perimeter of the outer shell and shall measure 10" across the top, 19" across the bottom (being graded for waist size), and extend 5" above the pant waist with 9" x 5" loop. See V-Back™ suspender specification.

\_\_\_\_\_COMPLIANT            \_\_\_\_\_EXCEPTION

**3. MOISTURE BARRIER/THERMAL LINER CONSTRUCTION**

A. Design shall be compatible with the outer shell so that the liner does not buckle, pull, or otherwise restrict body motion.

B. The bottom nine inches of each thermal leg shall be constructed of Semper Dri™ (3.5 oz./sq. yd. Glide™ (NOMEX® filament/spun) face cloth quilted to one layer E-89™ spunlace aramid 85% NOMEX®/15% KEVLAR® weighing approximately 2.3 oz./sq. yd. with a Teflon® finish and one layer of apertured (11-13 apertures/sq. inch) E-89™ spunlace aramid 85% NOMEX®/15% KEVLAR® weighing approximately 1.5 oz./sq. yd. with a Teflon® finish (total weight +/- 7.3 oz./sq. yd.) to deter the wicking of moisture up the thermal liner leg. Alternate means of addressing moisture barrier construction may be considered by the department; but it is at the sole discretion of the department as to acceptability.

C. The waist of the moisture barrier/thermal liner shall be secured to the waist of the outer shell such that when donning the pant a leg may not be accidentally caught between the outer shell and its inner linings along the waist and between the legs of the pant.

D. For added thermal protection to the knee, an additional layer of 1/8" thick, fire retardant closed-cell foam shall be positioned between the moisture barrier and thermal liner at the knee.

E. The moisture barrier shall be completely sewn to a Teflon® treated NOMEX® facecloth at its perimeter.

F. The moisture barrier substrate/facecloth combination will be sewn to the quilted thermal liner at its perimeter with the breathable membrane oriented inward toward the thermal liner and away from the outer shell. The quilted thermal liner will be oriented toward the wearer.

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

H. The moisture barrier/thermal liner shall finish no more than 3" from the pant cuffs.

\_\_\_\_\_COMPLIANT      \_\_\_\_\_EXCEPTION

#### 4. MOISTURE BARRIER/THERMAL LINER ATTACHMENT

A. The moisture barrier/thermal liner shall be completely detachable from the outer shell for ease of cleaning by using snaps and hook and loop.

B. Eight evenly spaced snaps shall secure the liner to the integral waistband; two snaps shall be set in leather leg tabs at each leg end and hook and loop on each side of fly facing.

\_\_\_\_\_COMPLIANT      \_\_\_\_\_EXCEPTION

#### 5. PANT LINER INSPECTION SYSTEM

A. There shall be an opening located on the pant liner system to the right side of the waist separating the thermal barrier and moisture barrier, approximately 10" in length. This opening will provide the ability to completely invert the pant liner to properly view the integrity of the entire liner system.

B. There shall be a piece of 1" x 3" FR loop sewn to the moisture barrier 3" over from beginning of opening and a corresponding piece of 1" x 3" FR hook sewn to the inside of the outer shell to ensure proper alignment when installing the liner system into the outer shell. This Liner Inspection System is completely hidden when the liner is properly installed into the outer shell.

\_\_\_\_\_COMPLIANT      \_\_\_\_\_EXCEPTION

#### 6. STORM FLY/CLOSURE

A. The outer shell shall have a sewn on overlapping fly front running the full length of the fly on the left side.

B. The flap shall not be less than 2.5" wide at the waistband.

C. The bottom of the fly shall be reinforced with one 42 stitch bartack.

- D. Pant closure shall be provided by #9 brass zipper.
- E. The storm fly shall be held closed along its length by means of a hook and loop fastener closure 1.5" minimum width, along the leading edge for a distance of not less than 6" from the bottom of the fly closure to the waist area for proper alignment and secure closure. Additionally, one snap shall be positioned at the inside top of the fly.
- F. The storm fly shall be outer shell material, lined with a 4" strip of CROSSTECH® (Type 2C) moisture barrier material and Semper Dri™ to prevent wicking.

\_\_\_\_\_ COMPLIANT      \_\_\_\_\_ EXCEPTION

#### 7. THERMAL FLY ASSEMBLY

- A. A 3/4" wide x 9" long loop fastener shall be sewn to the moisture barrier/thermal liner to engage corresponding hook fastener on the underside of the outside storm fly and facing.

\_\_\_\_\_ COMPLIANT      \_\_\_\_\_ EXCEPTION

#### 8. WAISTBAND

- A. The waist of the pants shall be reinforced on the inside with 1- ply of outer shell material not less than 1.5" in width.
- B. The pant waist shall be contour shaped for better comfort and hemmed to provide strength with the independent waistband, which shall then be double stitched to the outer shell.
- C. Two-2" wide self-material suspender tabs with snaps shall be attached to waist front for suspender attachment.

\_\_\_\_\_ COMPLIANT      \_\_\_\_\_ EXCEPTION

#### 9. EXTERNAL TAKE-UPS

- A. One adjustment device shall be affixed to the outside on each side of the pant. Each take-up strap shall be comprised of two sub-component straps.
- B. The front strap shall be 1" wide x 5" in length, folded in half to form a loop, and shall be affixed to the side of the pant by means of two bar tacks spaced 2" apart. The loop shall face toward the back and hold a nickel plated 1" metal loop.

- C. The back strap shall be 1" wide x 9" in length of double layered outer shell material and hook and loop fastener.
- D. The rear 4.5" shall be sewn and triple bartacked to the shell.
- E. The front section of the strap shall remain loose and be aligned so that it is threaded through the metal loop. It shall have a piece of 1" x 3" hook fastener attached to the loose strap end to engage the corresponding 1" x 4.5" loop fastener at end of strap to allow for adjustment.

\_\_\_\_\_ COMPLIANT      \_\_\_\_\_ EXCEPTION

10. V-FIT™ KNEE

- A. The knee shall have an insert throughout all layers that shall provide a natural bend in the leg.
- B. This knee shall include cut outs, shaped pieces, and darts to create free movement with few restrictions.
- C. The insert shall consist of black polymer-coated aramid for abrasion resistance and thermal protection. In addition to reinforcement, knees shall be padded using 2- layers 1/8" thick, fire retardant closed-cell foam. This reinforcement material shall be oriented between the outer shell and knee insert reinforcement.

\_\_\_\_\_ COMPLIANT      \_\_\_\_\_ EXCEPTION

11. CUFFS

- A. The cuff area of the pant shall be reinforced with a binding of black polymer-coated aramid material not less than 2" in total width for greater strength, abrasion resistance, and thermal protection.
- B. The back portion of the cuff will gradually curve upward from each side seam to a maximum of 2" at the center back of the pant leg to prevent wear on the back of the cuff.

\_\_\_\_\_ COMPLIANT      \_\_\_\_\_ EXCEPTION

12. FULL BELLOWS POCKET

- A. There shall be a 10" wide x 10" deep outside full bellows pocket set to the left thigh that expands by means of side and bottom gussets to a thickness of 2" in front and back.

- C. Pocket shall be fully lined with KEVLAR® twill on all 4 sides inside pocket.
- D. Pocket and flap shall be set with stitch 301, seam Ssb-2 with the top and bottom pocket corners and top corners of flaps reinforced with bar tacks for additional strength. Drainage of moisture to be provided by brass eyelets.
- E. Pocket flap shall be 11"x 5".
- F. A hook and loop fastener closure system shall be set with 1" x 10" loop fastener horizontally on the pocket and (3) pieces of 1" x 3" hook fastener vertical on the underside of the flap.

\_\_\_\_\_ COMPLIANT          \_\_\_\_\_ EXCEPTION

### 13. TOOL POCKET

- A. There shall be a 9" wide x 10" high, outside full bellows pocket set to the right thigh that expands by means of side and bottom gussets to a thickness of 2" in front and back.
- B. Pocket shall be fully lined with KEVLAR® twill on all 4 sides inside of pocket.
- C. There shall be two additional layers of KEVLAR® lined self-fabric on the shell side inside the pocket. First layer 6.5" high, second layer 4.5" high. Both layers stitched in 3" increments to create six tool compartments.
- D. Pocket and flap shall be set with stitch 301, seam Ssb-2 with the top and bottom pocket corners and top corners of flap reinforced with bar tacks for additional strength. Drainage of moisture is to be provided by brass eyelets.
- C. Pocket flap shall be 5" x 10".
- D. A hook and loop fastener closure system shall be set with 2" x 9" loop fastener horizontally on the pocket and three pieces of 1.5" x 3" hook fastener vertically on the underside of the flap.

\_\_\_\_\_ COMPLIANT          \_\_\_\_\_ EXCEPTION

### 14. SUSPENDERS

- A. Highly engineered 40" red suspenders designed for greater range of mobility and reduced stress allowing for three points of attachment to V-Force™ Highback pants with hook and loop in back and snap attachment in front.

### 15. DESIGN

- A. Two 12" front pull straps shall be constructed as follows: 2" wide elastic polyester webbing shall be fed through 2" metal loops and secured with a two-needle lock-stitch at one end. A black military finish steel double dee ring shall be fed through the webbing. The other end of the webbing shall be fed through a 2"

wide thermo-plastic dee ring and secured with a two-needle lock-stitch. The dee ring shall function as a pull strap for easily adjusting the suspenders for proper fit.

- B. Two 1" shoulder straps shall be constructed as follows: 2" wide elastic polyester webbing shall be fed through the top half of the steel double dee ring and secured with a two-needle lock-stitch. The top of each strap shall be secured to the V-shaped shoulder pad with two-needle lock-stitch and one 42-stitch bartack.
- C. Two 6" back straps made of 2" wide elastic webbing shall be joined with box and x-stitch at the bottom of each V-shaped shoulder pad. The end of each back strap shall be single-needle lock-stitch to a 8" wide by 4" high hook and loop panel for securing to V-Force back panel.
- D. V-shaped shoulder pads shall be constructed of two layers of 1/8" thick, fire retardant closed-cell foam encapsulated in 7.5 oz. Black NOMEX®. Each shoulder pad shall be 3" wide and 15" long ending in a 5" high back reinforcement pad.
- E. Suspender shall be warranted against defects in materials and workmanship for the useful life of the product.

ITEM NO. 3 - HELMET
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### HELMET – PRICE SCHEDULE ITEM NUMBER 3

The purpose of the helmet is to provide thermal, impact, and eye protection during structural fire fighting operations where there is a threat of fire or when certain physical hazards are likely to be encountered, such as non-fire related rescue operations, emergency medical operations, and victim extrication.

#### CERTIFICATIONS AND STANDARDS

- A. All helmets produced shall meet or exceed the criteria set forth in the current edition of NFPA 1971 STANDARD ON PROTECTIVE ENSEMBLES FOR STRUCTURAL FIRE FIGHTING AND PROXIMITY FIRE FIGHTING 2007 EDITION, NFPA 1851 SELECTION, CARE AND MAINTENANCE OF STRUCTURAL FIRE FIGHTING PROTECTIVE ENSEMBLES, NFPA 1500 FIRE DEPARTMENT OCCUPATIONAL SAFETY AND HEALTH PROGRAM, and/or the requirements of CAL-OSHA.
- B. All components used in the construction of garments shall be third party tested, certified, and listed for compliance to NFPA 1971. The label of the third party tester shall denote certification. Copies of the certification shall accompany bid proposal upon request.
- C. The manufacturer shall be registered to ISO 9001 Quality System to assure meeting or exceeding satisfactory levels of quality.

NO EXCEPTION

#### HELMET ASSEMBLY

- A. The helmet shall be assembled with the safety, comfort, and protection of the firefighter in mind. For the purpose of reducing neck fatigue and/or strain, the weight of the helmet shall be equal to or less than 53 ounces when weighed without eye protection and I.D. front. All other specified required components, accessories, and attachments must be in place for weight comparison.
- B. The helmet shall have a liner consisting of an advanced light-weight thermoplastic and a ¼" layer of K-flex material for enhanced thermal protection in the event of extreme heat situations.
- C. The use of expandable foam impact caps are to meet NFPA requirements for thermal, impact, and penetration resistance that a shell alone can not meet. This adds unnecessary weight to the helmet increasing neck fatigue/strain. Separable Foam impact caps leave the firefighter at risk of severe injury should it become exposed during a fall or impact. The use of a foam impact cap shall not be accepted.

\_\_\_\_\_COMPLIANT \_\_\_\_\_EXCEPTION

## SHELL

- A. The helmet shell shall be constructed with a high quality fiberglass composite, hand layered for even distribution of glass fibers to ensure adequate coverage and protection. The shell shall be molded with a low pressure, low heat molding process that enables the fiberglass composite and the resin to bond together without introducing brittleness or stress to the product. Sheet molded compound processed shells shall not be accepted due to the random nature of glass, higher resin content, and softening effect when exposed to high heat.
- B. The shell shall be through color molded to extend the wearlife of the helmet. For the purpose of maintenance and appearance purposes, painted/coated shells shall not be accepted. Shell color shall be black, red, white.
- C. The shell design shall be traditional in shape measuring 15.25" from front to back, 12" from side to side. The design includes a protective side brim with an upward angle for channeling water. The brim measurements shall be a minimum width of 1.25" on each side and front with a minimum of 2.75" at the rear. The design shall require the dome to be kept low for better balance, and a lower center of gravity resulting in a reduction of neck fatigue. The dome shall be no more than 6" in height when measured from the top surface of the helmet brim.
- D. Edge trim welting shall consist of a self-locking, fire resistant material for ease of inspection or replacement in the field. The welt shall be black in color when assembled to black and red, and white in color on white shells. Adhesives or glue shall not be accepted.

\_\_\_\_\_COMPLIANT \_\_\_\_\_EXCEPTION

## SUSPENSION SYSTEM

- A. The suspension system shall have an adjustable six-point assembly designed to maintain the proper clearance between the wearer's head and the dome of the helmet. The entire suspension and headband assembly shall have easy removal, repair, and replacement capabilities by trained department personnel in the field. The ease of suspension and headband adjustment shall enable each individual fire fighter to tailor the ride and balance of the helmet to their specific needs for comfort and performance.
- B. The suspension shall consist of nylon webbing strategically positioned and sewn at six points on the heat resistant thermoplastic suspension ring, allowing optimum performance and fit.
- C. The suspension shall have the Paul Conway patented center of gravity feature including a foam crown pad that adjusts for specialized fit.
- D. The headband assembly shall be rear ratchet style and adjustable to fit head sizes from extra small (5.5) to extra large (9.5). The headband shall be equipped with a center of gravity adjustment strap as well as four (4) tabs with three (3) height adjustments for maximum balance, fit, and interface with SCBA masks. The ratchet assembly shall be designed to ensure the ratchet sets below the occipital lobe to cradle the head and eliminate gaps between head and headband

causing pressure points, premature exhaustion, or helmet fluctuation. The ratchet assembly shall be capable of fore and aft adjustment and replacement by trained department personnel. All headband components contacting the head of the fire fighter including front, sides, and ratchet band shall be padded and lined for increased comfort and headband durability.

NO EXCEPTION

## EYE PROTECTION

- A. For NFPA compliance, the helmet assembly shall have a goggle system attached. All eye protection mounting hardware shall be solid brass, stainless steel, anodized aluminum, high temp glass reinforced thermoplastic, or a combination of these. Non-NFPA compliant flipdowns shall be included.
- B. ESS goggles shall consist of a heat and flame-resistant polycarbonate with large perimeter ventilation areas. The ventilation areas shall be covered with a high heat resistant and flame retardant urethane foam. The frames shall be designed for wear over most prescription eyewear. The lens shall be a high temp polycarbonate hard coated for scratch resistance inside and out. The lens shall be free of waves, ripples, and distortions for visibility and anti-fog coated inside and out. The mounting system shall be an under brim thermoplastic attachment secured through the brim of the helmet. The strap shall be a two-strap attachment system with metal grommets for quick snapping on/off mounting posts.
- C. NFPA non-compliant flip-downs shall be mounted through the front brim of the helmet with brass screws and nuts for ease of replacement or repair in the field. The lenses shall be quality polycarbonate material.

\_\_\_\_\_COMPLIANT \_\_\_\_\_EXCEPTION

## CHINSTRAP ASSEMBLY

- A. The chinstrap assembly shall be provided with a postman's slide adjustment buckle. The strap assembly shall be provided with a t buckle that will allow separation of the strap assembly for easier donning over a breathing apparatus face piece and quick release. These buckles shall mount into the strap so that no material comes in contact with the firefighter's face.
- B. The chinstrap shall include fire retardant hook and loop fasteners to store the loose end of the adjustment strap for added safety and better fit.
- C. The chinstrap assembly shall mount into the helmet shell assembly for ease of removal during repair or replacement by trained department personnel. Use of rivets for shell mounting the assembly shall not be acceptable.
- D. The chinstrap shall be constructed of flame resistant woven Nomex® for increased comfort of the firefighter.

\_\_\_\_\_COMPLIANT \_\_\_\_\_EXCEPTION

## EAR AND NECK PROTECTION

- A. An ear and neck protective system shall be assembled to the helmet in accordance with the NFPA 1971-2013 standard.
- B. Earflaps shall be constructed of 7.5 oz black Nomex® material sewn to two layers of heavyweight FR flannel. This assembly shall provide thermal protection for a distance not less than 6.5" when measured from the center underside of the brim to the hem of the assembly.
- C. The earflaps shall be completely removable without complete disassembly of the helmet for ease of cleaning, decontamination, and replacement in the field. This assembly shall completely cover the ratchet adjustment mechanism during use.
- D. For maintenance and appearance purposes, lighter color materials shall not be acceptable.

\_\_\_\_\_ **YES**      \_\_\_\_\_ **NO**

## D-RING AND BRACKET

- A. D-ring hanger and bracket, composed of gold anodized aluminum, shall be attached to the rear brim of the helmet shell with a machine screw, lock washer, and acorn nut for ease of repair or replacement in the field.
- B. The D-ring shall be a minimum of 1.25" long x 1.5" wide. The use of rivets to attach this d-ring and bracket shall not be acceptable.

\_\_\_\_\_ **COMPLIANT**      \_\_\_\_\_ **EXCEPTION**

## 10. LEATHER FRONT MOUNTING HARDWARE

- A. The helmet shall be provided with a carved style brass eagle for the upper portion of the leather front holder. The hollow design reduces helmet weight and serves as a first line shock absorber during an impact. The upper portion of the front holder shall be attached to the front rib of the shell with two (2)-threaded rods and four (4) acorn nuts that permit field replacement or repair. The use of rivets for attachment shall not be acceptable.
- B. The helmet shall be provided with a glass reinforced thermoplastic bracket for the lower portion of the front holder. Two (2) screws shall be inserted into the slots on the rear of the bracket and pulled into the recess and held with retainer washers to maintain stability for front attachment. The lower portion of the front holder shall be attached to the lower front crown of the shell by two (2) blind rivets. The use of bolts, screws, or other fasteners that may contact the firefighter's head shall not be acceptable.

\_\_\_\_\_ **COMPLIANT**      \_\_\_\_\_ **EXCEPTION**

## REFLECTIVE TRIM AND INFORMATION

- A. The helmet shall have eight (8) tetrahedrons of reflective trim, measuring 2" in height and 2" at the base, positioned approximately .75" above the base rib of the dome. This trim is in accordance with the NFPA 1971-2013 standard.
- B. The helmet shall have 3M Scotchlite™ as standard trim with Reflexite® as an available option.
- C. NFPA required information and maintenance booklet shall be stored inside the helmet dome of every helmet assembly for visibility to the firefighter and must be detached before the helmet is worn.

\_\_\_\_\_ COMPLIANT      \_\_\_\_\_ EXCEPTION

## FITTING AND ADJUSTMENTS

- A. Training on the donning, doffing, fit and adjustment of the specified helmet will be provided at no additional charge. This training will be done at a location and time provided by the department.

NO EXCEPTION

ITEM NO. 4 - LEATHER SHIELD FOR HELMET – LINE PERSONNEL

1. SHIELDS FOR LINE PERSONNEL

- A. The shield shall be an American Heritage Passport design w/ Passport. The Passport shall read a two (2) digit set in number.
- B. There shall be one arched banner above the Passport reading rank of individual.
- C. There shall be one banner below the Passport reading "FULTON".
- D. Brass backer/stiffner bracket shall be installed. All holes shall be drilled for specified helmet.
- E. Colors shall be provided as specified at time of order.

\_\_\_\_\_COMPLIANT      \_\_\_\_\_EXCEPTION

<b>ITEM NO. 5 - LEATHER SHIELD FOR HELMET – Chief Officer</b>
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1. SHIELDS FOR CHIEF OFFICER

- A. The shield shall be an American Heritage Passport design w/o Passport.
- B. There shall be two arched banners at the top of the shield. Below arched banners shall be either bugle decal or two digits as specified.
- C. There shall be one banner below reading "FULTON".
- D. Brass backer/stiffner bracket shall be installed. All holes shall be drilled for specified helmet.
- E. Colors shall be provided as specified at time of order.

\_\_\_\_\_COMPLIANT      \_\_\_\_\_EXCEPTION

<b>ITEM NO. 6 - HOOD</b>
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1. DESCRIPTION

A. FLAME RESISTANT FIRE FIGHTING KING COBRA HOOD

2. FABRIC

A. Both outer shell and lining are a blend of Carbon/High Strength Aramid

approximately 6.5oz sq yd.

B. 1 x 1 rib knit fabric - knit to allow approx. 200% stretch for maximum stretch and recovery.

C. Calendared to minimize laundry shrinkage.

3. STITCH TYPES AND SEAMS

A. All stitching conforms to federal Standard 751 Specifications (FED-STD-751).

B. Major seams are flat seams assembled, stitch type 607.

C. Elastic in face opening is serged in with stitch type 503 and reinforced with bottom cover-stitch, stitch type 406.

D. Bound bottom is cover-stitched with 406 stitch type.

4. THREAD:

A. All seams are sewn with 100% Nomex thread size 45/3.

5. CONSTRUCTION

A. Composed of two layers throughout.

B. Seamed from top of face opening to bottom back.

C. Face opening is circular in shape and serged with x-heavy duty ½" wide elastic around the perimeter. The elastic is then folded back ½" and cover stitched. The face opening stretches a full 16" (which is 25% more than conventional hoods) for easy donning and a snug fit around face of SCBA mask. Face opening maintains original shape after repeated launderings.

- D. The bottom edge of hood is bound with self-material bias binding.
- E. Shoulders are contoured on each side allowing the hood to lie flat on the chest and back for maximum coverage.

6. FINISHED HOOD MEASUREMENTS

- A. Face opening is circular and measures between 4.6" to 5.6" in diameter.
- B. Length of hood below face opening approx. 10½".
- C. Length of hood at side from top to bottom approx. 14½".
- D. Length of hood at front and back from top to bottom approx. 18¼".

7. SIZE

- A. One size hood fits all.

8. LABELING AND USER INFORMATION

- A. Each hood is clearly labeled to identify material contents, NFPA acceptance, UL Classification, Date of Manufacture, Warning Statement and Care Instructions.
- B. Included with each hood is a complete user's information guide.

9. MEETS OR EXCEEDS INDUSTRY STANDARDS

- A. UL classified to meet or exceed NFPA 1971-2013 Edition; Compliant with CAL- OSHA, Sections 3406 and 3410(d) and OSHA Rule 29 CFR, Part 1910, 269.
- B. Compliant with NFPA 70E 2013 Edition and meets performance specifications of ASTM-F-1506. ARC Rating: 23.3 – Hazard / Risk Category – 2.

<b>ITEM NO. 7 - GLOVES</b>
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1. STYLE

- A. Shelby FDP Gauntlet

2. OUTER SHELL

- A. Heavy Weight, Fire Retardant, Heat Resistant, 3.25 to 4.0 oz., Shelby Abrasion Resistant, Multidirectional Fiber Structure, Brushed Pigskin.

3. THERMAL LINER

- A. 8 oz. S.E.F. Modacrylic Fleece Laminated to Gore RT7100 Glove Barrier Fabric.

4. PROTECTIVE BARRIER

- A. Gore (PTFE) RT7100 Glove Barrier Fabric. This barrier fabric is combined (laminated) to the thermal liner.
- B. The breathable barrier/ thermal liner system is individually graded and produced in as many sizes as glove sizes.
- C. The barrier/thermal liner systems are sized proportional to human hand sizes.

5. WRIST PULL

- A. 3" x 3 1/2" Round Leather Pull, Sewn to Wristlet & Glove Body

6. THREAD

- A. Sewn with high burst Strength Kevlar (30/5) lock stitch, 8-10 stitches per inch

7. HANGER LOOP

- A. 1/4" fire retardant, heat resistant brushed pigskin Hanger Loop

8. LABEL

- A. Label shall be permanently attached to each glove and certifies the glove meets or exceeds the requirements of the latest NFPA standards (1971, Standard on Protective Ensemble for Structural Fire Fighting, 2013 Edition).

B. Label shall be durable and include the following information: name or designation of manufacture; model; name or style number; lot or serial number; size; date of certification tests; patent numbers; cleaning and care instructions.

C. Label to be sewn to inside of glove.

#### 9. STANDARD

A. Glove is constructed, tested and labeled in accordance with the NFPA Standard on Protective Ensemble for Structural Fire Fighting, NFPA 1971-2013 Edition.

B. The glove is certified by the Safety Equipment Institute (SEI)

#### 10. SIZES

A. XXS, XS, S, M, L, XL, Jumbo

#### 11. DESIGN & CONSTRUCTION

A. Glove shall be a gunn cut pattern with wing thumb and wrap around index finger.

B. Lining is completely sewn S.E.F. Modacrylic, laminated to Gore RT7100 Glove

Barrier Fabric. This creates a strong thermally stable, non-cracking/flaking one-piece liner/barrier system.

C. All seams are sealed with a DuPont  $\square$  silicone sealant, which ensures that liquids do not come in contact with the hand or hand area.

D. The one-piece lining is permanently sewn to the glove shell in the area of the fingertips and wrist. This proven attachment method eliminates the opportunity for lining pullouts & creates a uniform, inside lining even after repeated use in fire fighting conditions.

E. The glove body shall extend 2" above the wrist crease & shall have a shirred elastic snugger at the wrist.

<b>ITEM NO. 8 - BOOTS</b>
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1. DESCRIPTION

- A. Fire Hunter Xtreme 14" black bunker boot.
- B. Waterproof (to 10.5 inches measured from top of the insole), full leather, profiled rubber toe cap, large boot straps on both sides, shin protection, boot with non-slip, shock absorbing rubber outsole and machine washable insole.

2. MATERIALS

- A. Upper Hydrophobic, full grain cowhide, breathable, color black.
- B. Approx. 0.1 - 0.08 inches (2.5 – 2.7 mm) thick.
- C. Tested to be hydrophobic for a minimum of 120 minutes (dynamic test in the Penetrometer).
- D. Free of PCP, AZO and Chromium-VI.

3. SHAFT CLOSURE (casing & top band)

- A. Hydrophobic casing leather, breathable, color black. Approx. 0.04 – 0.05 inches (1.1 - 1.3 mm) thick...
- B. Tested to be hydrophobic for a minimum of 120 minutes (dynamic test in the Penetrometer).
- C. Free of PCP, AZO and ChromeVI.
- D. The casing is approx. 1.5 inch (40 mm) high.

4. HEEL BEND

- A. Black edging leather, minimum 0.04 – 0.05 inches (1.0 - 1.2 mm) thick.

5. SHIN PROTECTION

- A. Memory foam between shaft and lining, 0.31 inches (8 mm) thick.

6. PULL-ON LOOP

- A. Two large pull-on loops at both sides made from upper leather, strengthened with textile strip.

7. PADDING

- A. Soft, reticulated foam.

8. LINING

- A. 4 layer waterproof laminate with permanently welded seams, abrasion resistance, and nonwoven.
- B. 1st layer Thermobonded nonwoven.
- C. 2nd layer Bicomponent membrane based on ePTFE or at least similar.
- D. 3rd layer Functional nonwoven.
- E. 4th layer Backing fabric: knit monofilament.

9. INSIDE BACK STRAP

- A. A highly abrasion resistant non-woven material.

10. THREAD

- A. NOMEX® threads, with a minimum thickness of 30/3, water repellent, color yellow.

11. FOOT BED

- A. Moisture-absorbing insole with steel joint and ankle support made from Texon T93 (fleece), 0.1 inch (2.5 mm) thick.

12. LADDER SHANK

- A. Thickness  $\geq 1.4$  mm, stainless, 3 ruffles, deflection at 400 lb (182 kg) acc. NFPA 1971-2007 not more than 1/4 inch (6 mm)

13. INSOLE

- A. Anatomically formed, nonwoven, abrasion resistant, wicks moisture away from foot, machine washable at 86 °F.

14. HEEL COUNTER

- A. Made of fibrous leather board, matching to the firefighting last.

15. OUTSOLE

- A. Oil and fuel resistant, non-slip and non-chalky rubber shell sole, contains PU damping wedge with reinforcing metal insert, self cleaning.

16. OUTSOLE (Technical Information)

- A. Toe spring of approx. 0.38 inches (10 mm) and a heel spring of approx. 0.5 inches (12 mm) ensure a natural stride.
- B. Shore hardness rubber outsole Shore A 65° at 73.4 °F (tolerance  $\pm 3$ ).
- C. Main tread depth minimum 0.24 inches (5.5 mm); round tread groove base.
- D. Angular edging or the tread stake at the sole margin for high lateral stability.
- E. Light ladder heel treading in the joint area.
- F. Highly heat resistant connection of the rubber sole with the PU wedge and the upper.

17. STEEL MID SOLE (Technical Information)

- A. Thickness  $\geq 0.5$  mm
- B. stainless
- C. Puncture resistance acc. NFPA 1971-2013  $> 1212$  N (272 lbf)
- D. Flex cracking resistance
  - acc. NFPA 1971-2007  $> 1,000,000$  Flexes
  - acc. CAN/CSA-Z195-02  $> 1,500,000$  Flexes

18. INSTEP FLEX (Technical Information)

- A. System offering a very good heel adaptation of the boot to different instep heights and widths.
- B. With elastic insert which stretches when stepping into the boot and therefore enables the foot to get in.
- C. This elastic insert encompasses the foot tightly in the instep area and pushes it against the rear cap.
- D. During walking, a tight heel fit has to be guaranteed. The heel may not (or only at a minimum) move up and down inside the boot (“slipping” in the boot).

19. HEEL AND INSTEP BEND (Technical Information)

- A. Guarantees a smooth movement when kneeling, bending, and operating a machine.
- B. With padded leather as instep and heel bend.
- C. With an equivalent puncture proof analogical to the rest of the upper in the instep area.

20. PULL-ON LOOPS (Technical Information)

- A. With leather straps on both sides of the boots.
- B. At least 1 inch (25 mm) broad having a length of approx. 10 inches (25 cm).

21. REFLECTIVE STRIP

- A. With an at least 20 mm wide reflection strip at the outside.
- B. From the upper edge of the outer counter to the middle seam of the boot tube.

22. TOE PROTECTION CAP

- A. Steel toe cap according to ASTM F2413-05.

23. RUBBER TOE CAP

- A. The boot is equipped with a profiled rubber toe cap which is fixed with a seam at the end.
- B. The seam is in a furrow which protects it from scrubbing.

24. INSOLE

- A. Surface layer material must withstand a minimum of 25,600 scrubbing cycles without scrubbing through.

25. CLIMATE SYSTEM

- A. Permits air circulation with every step.
- B. At the upper leg height ending, there are at least 18 ventilation holes.
- C. Inner lining glued to upper only periodically to prevent detachment and allow full breathability of the leather.

26. LABEL

- A. Every shoe is equipped with a durable, long lasting, and legible label containing company specific data as serial number, size, and production site.
- B. Each shoe has a unique code number which permits tracking of the shoes in the production company and with consumers.

27. CARE INSTRUCTIONS

- A. A booklet containing product details, antistatic information, and care instructions will be included with each pair of shoes.

NO EXCEPTION

**FORM 1: NON-COLLUSION AFFIDAVIT OF BIDDER/OFFEROR**

**STATE OF GEORGIA**

**COUNTY OF FULTON**

I, \_\_\_\_\_ certify that pursuant to Fulton County Code Section 2-320 (11), this bid or proposal is made without prior understanding, agreement or connection with any corporation, firm or person submitting a bid for the same work, labor or service to be done or the supplies, materials or equipment to be furnished and is in all respects fair and without collusion or fraud. I understand collusive bidding is a violation of state and federal law and can result in fines, prison sentences and civil damages awards. I agree to abide by all conditions of this bid or proposal and certify that I am authorized to sign this bid or proposal for the bidder.

Affiant further states that pursuant to O.C.G.A. Section 36-91-21 (d) and (e), \_\_\_\_\_ has not, by itself or with others, directly or indirectly, prevented or attempted to prevent competition in such bidding or proposals by any means whatsoever. Affiant further states that (s)he has not prevented or endeavored to prevent anyone from making a bid or offer on the project by any means whatever, nor has Affiant caused or induced another to withdraw a bid or offer for the work.

Affiant further states that the said offer of \_\_\_\_\_ is bona fide, and that no one has gone to any supplier and attempted to get such person or company to furnish the materials to the bidder only, or if furnished to any other bidder, that the material shall be at a higher price.

\_\_\_\_\_  
(COMPANY NAME)

\_\_\_\_\_  
(PRESIDENT/VICE PRESIDENT)

Sworn to and subscribed before me this \_\_\_\_\_ day of \_\_\_\_\_, 2015.

\_\_\_\_\_  
(SECRETARY/ASSISTANT SECRETARY)

(Affix corporate seal here, if a corporation)

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

County: \_\_\_\_\_

Commission Expires: \_\_\_\_\_

**NOTE:**

**IF THE OFFEROR IS A PARTNERSHIP, ALL OF THE PARTNERS AND ANY OFFICER, AGENT, OR OTHER PERSON WHO MAY HAVE REPRESENTED OR ACTED FOR THEM IN BIDDING FOR OR PROCURING THE CONTRACT SHALL ALSO MAKE THIS OATH.**

**IF THE OFFEROR IS A CORPORATION, ALL OFFICERS, AGENTS, OR OTHER PERSONS WHO MAY HAVE ACTED FOR OR REPRESENTED THE CORPORATION IN BIDDING FOR OR PROCURING THE CONTRACT SHALL MAKE THE OATH.**

**FORM 2: FULTON COUNTY CERTIFICATE OF ACCEPTANCE OF BID/PROPOSAL  
REQUIREMENTS**

This is to certify that on this day, offeror acknowledges that he/she has read this solicitation document, pages # \_\_\_\_\_ to # \_\_\_\_\_ inclusive, including any addenda # to # \_\_\_\_\_ exhibit(s) # \_\_\_\_\_ to # \_\_\_\_\_, attachment(s) # \_\_\_\_\_ to # \_\_\_\_\_, and/or appendices # \_\_\_\_\_ to # \_\_\_\_\_ in its entirety, and agrees that no pages or parts of the document have been omitted, that he/she understands, accepts and agrees to fully comply with the requirements therein, and that the undersigned is authorized by the offeror to submit the proposal herein and to legally obligate the offeror thereto.

This is also to certify that the offeror has reviewed the form Fulton County contract included in the solicitation documents and agrees to be bound by its terms, or that the offeror certifies that it is submitting any proposed modification to the contract terms with its proposal. The offeror further certifies that the failure to submit proposed modifications with the proposal waives the offeror's right to submit proposed modifications later. The offeror also acknowledges that the indemnification and insurance provisions of Fulton County's contract included in the solicitation documents are non-negotiable and that proposed modifications to said terms may be reason to declare the offeror's proposal as non-responsive.

Company: \_\_\_\_\_

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

(Corporate Seal)

**FORM 3: PROMISE OF NON-DISCRIMINATION**

"Know all persons by these presents, that I/We ( \_\_\_\_\_ ),  
Name

\_\_\_\_\_ Title \_\_\_\_\_ Firm Name  
Hereinafter "Company", in consideration of the privilege to bid on or obtain contracts funded, in whole or in part, by Fulton County, hereby consent, covenant and agree as follows:

- 1) No person shall be excluded from participation in, denied the benefit of, or otherwise discriminated against on the basis of race, color, national origin or gender in connection with any bid submitted to Fulton County for the performance of any resulting there from,
- 2) That it is and shall be the policy of this Company to provide equal opportunity to all businesses seeking to contract or otherwise interested in contracting with this Company without regard to the race, color, gender or national origin of the ownership of this business,
- 3) That the promises of non-discrimination as made and set forth herein shall be continuing in nature and shall remain in full force and effect without interruption,
- 4) That the promise of non-discrimination as made and set forth herein shall be made a part of, and incorporated by reference into, any contract or portion thereof which this Company may hereafter obtain,
- 5) That the failure of this Company to satisfactorily discharge any of the promises of non-discrimination as made and set forth herein shall constitute a material breach of contract entitling the Board to declare the contract in default and to exercise any and all applicable rights and remedies, including but not limited to cancellation of the contract, termination of the contract, suspension and debarment from future contracting opportunities, and withholding and/or forfeiture of compensation due and owing on a contract; and
- 6) That the bidder shall provide such information as may be required by the Director of Contract Compliance pursuant to Section 4.4 of the Fulton County Non-Discrimination in Purchasing and Contracting Ordinance.

**SIGNATURE:** \_\_\_\_\_

**ADDRESS:** \_\_\_\_\_

\_\_\_\_\_  
**TELEPHONE NUMBER:** \_\_\_\_\_

**FORM 4 – EMPLOYMENT REPORT**

The demographic employment make-up for the business submitting this Quote must be identified and submitted with this bid. In addition, if any lower tier supplier(s) will be utilized by the bidder to provide the goods/commodities requested, the demographic employment make-up of the lower tier supplier(s) must be identified and submitted with your response.

JOB CATEGORIES	WHITE (Not Hispanic Origin)		BLACK or AFRICAN AMERICAN (Not of Hispanic Origin)		HISPANIC or LATINO		AMERICAN INDIAN or ALASKAN NATIVE (AIAN)		ASIAN		NATIVE HAWAIIAN or OTHER PACIFIC ISLANDER (NHOP)		TWO or MORE RACES	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
EXECUTIVE/SENIOR LEVEL OFFICIALS and MANAGERS														
FIRST/MID LEVEL OFFICIALS MANAGERS														
PROFESSIONALS														
TECHNICIANS														
SALES WORKERS														
ADMINISTRATIVE SUPPORT WORKERS														
CRAFT WORKERS														
OPERATIVES														
LABORERS & HELPERS														
SERVICE WORKERS														
<b>TOTAL</b>														

Do you intend to utilize lower tier suppliers? Yes  No

If **Yes**, list each \_\_\_\_\_

Please identify if your business is 51% owned, operated and controlled by either of the following:

African- American  Hispanic-American  American-Indian  Asian  Native-Hawaiian

Pacific Islander  or; owned by a Non-Minority

Firm's Name: \_\_\_\_\_

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

Phone: \_\_\_\_\_

Email Address: \_\_\_\_\_

Submitted by: \_\_\_\_\_