



**Invitation to Bid – Turnout Gear
October 1, 2019
Solicitation #422-1019-03**

Sealed bids, subject to the specifications and conditions contained herein and attached hereto, will be received in the City Manager's Office, City Hall, until, but no later than **2:00 P.M.CST, October 22, 2019**, and then publicly opened and read aloud for Turnout Gear.

If you are an individual with a disability and require a reasonable accommodation or have additional questions regarding this invitation, please notify the Purchasing Agent, Kim Dale at (931) 560-1580.

No bid may be withdrawn after the scheduled closing time for receipt of bids for sixty (60) calendar days.

Bid Instructions - To be considered, you must:

1. Submit a bid using the bid sheet as supplied with this invitation to bid
2. Submit a copy of specifications sheet (pages 7 through 14) indicating either compliance or non-compliance with specifications. Non-compliance shall mean an area where the garments being bid fail to meet minimum specifications as listed. All non-compliant exceptions taken must be fully explained on a separate document and submitted along with the bid.
3. Have on file a current/accurate vendor application. Application may be made using our website <http://www.vendorregistry.com/columbia-tn-vendor-registration>
4. Include all warranty certifications and such other attachments as may be required herein.
5. All forms must be signed by bidder's representative with legal capacity to bind the bidder.
6. All bid documents shall be returned to:

Purchasing Agent, City Hall, 700 North Garden St., Columbia, TN 38401.

Mark outside of envelope with Invitation to Bid Turnout Gear and opening date of bid, October 22, 2019.

Time is of the essence and any bid received after the announced time and date for submittal, whether by mail or otherwise, will be rejected. The time of receipt shall be determined by the City Manager's Office. Bidders are responsible for ensuring that their bids are stamped by City Manager's Office personnel before the deadline indicated. Late bids received will be so noted in the bid file and the bid will be returned unopened. Faxed or e-mail bids will not be accepted.

Nothing herein is intended to exclude any responsible vendor, his product or service or in any way restrain or restrict competition. On the contrary, all responsible vendors are encouraged to bid and their bids are solicited. The City of Columbia is compliant with Title VI of the

1964 Civil Rights Act and as a result does not discriminate on the grounds of race, color or national origin nor does it excluded from participation in, or denies the benefit of any program or activity receiving federal financial assistance.

All inquires and questions regarding bid specifications shall be in writing. Oral explanation or interpretation of specifications given by the City prior to bid opening shall not be bidding on the City of Columbia

All costs associated with the preparation or delivery of this bid shall be the sole responsibility of the bidder.

1. SCOPE

The City of Columbia is seeking bids to establish fixed prices for the purchase of all turnout gear for the City's Fire and Rescue Department through October 30, 2020. Consideration will be given to renewals of an award for two consecutive one year periods based upon conditions as listed herein. Specifications contained herein are written to comply with NFPA standard 1971. All items shall meet or exceed those standards. Details of construction or material not otherwise covered by this specification or current NFPA standard shall conform to current industry standards and practices. Due to the unavoidable dangers inherent in duties of a firefighter, material and workmanship shall be of the finest quality throughout. All bids will be considered to be in compliance and agreement with all General and Special Conditions as listed herein unless specifically noted by the vendor in the bids submission.

2. GENERAL CONDITIONS

1. Acceptance of Bids: The City of Columbia reserves the right to reject any and all bids, to waive any informal technicalities or defects, the scope and nature of which it shall be the sole judge, in any bid, insofar as such technicality or defects do not legally, materially or substantially change such bid. The said City, unless otherwise specified by the bidder, reserves the right to accept any item on bid.

If the bidder fails to state the time within which a bid must be accepted, it is understood and agreed that said City shall have ninety (90) days from bid opening date in which to accept bid.

2. Error in Bid: In case of error in the extension prices in the bid, the unit price governs. No bid shall be altered, amended or withdraw, unless the acceptance date has expired, after the opening date of bids. Negligence on the part of the bidder in preparing the bid confers no right for withdrawal of the bid after it has been opened.
3. Discount Period: Time in connection with discount offered will be computed from the date of delivery, or from the date correct invoices are received, whichever date is later. Discount other than "Time Discounts" shall be shown on the face of the proposal sheet under "Terms".
4. Sample of Materials: Samples of items, when requested, must be furnished free of expense to the City, at the time bids are opened or later if such are called for after the bids have been opened, and if such samples are not destroyed in the process of sampling, they will be returned at the bidder's expense.

5. Signatures on Bids: Each bid must contain the full name and business address of the bidder. Any person signing a proposal sheet for himself or as agent, employee or officer of another must show his title and, if requested by the City shall furnish proof of his authority to make such proposal.
6. Alternate Bids: Alternate bids will be considered proving such items that appear on such bids meet specifications. Where equivalent items are bid upon, said City reserves the sole right in determining whether they meet specifications.
7. Bid Sheets: Bidders shall use the bid sheets furnished by the City. Failure to submit this sheet as required shall render the bid invalid. Bids sheets must contain prices on per unit and aggregate basis and the total amount of the bid must be stated on the bid sheet.
8. Federal or State Sales, Excise or Use Tax: Every bid shall separately state and set forth, therein the amount of any and all Federal and State sales, excise or use taxes included in the bid prices. If any such taxes are included in the prices bid, the City reserves the right in making the award to deduct any amount of such taxes thereof. Where labor is required, the bidder shall state separately the amount of labor and materials.
9. Delivery: The number of calendar days in which delivery will be made after contract is executed and purchase order placed shall be stated in the bid. When the bidder states no time delivery, it is understood and agreed that delivery is to be made within fifteen (15) days after receipt of order, unless otherwise stated in the specifications.
10. Compliance: Contractor shall abide by all federal, state and local laws and statutes and obtain all permits required in number seventeen (17) of these conditions.
11. Specifications: It is understood that reference to attached specifications shall be sufficient to make the terms of such specifications binding on the contractor. In some instances, the name of the manufacturer, a special brand, or make of an item is used in describing the item or items desired; but this does not restrict the bidder to that manufacturer or specific article, this means being used simply to indicate the character or quality of the article or service desired; but the articles or service on which the proposal are submitted must be equal to that specified, and a statement to that effect shall be made a part of the proposal. Where conflict occurs between the requirement or the General Conditions and the specifications, the requirements of the specifications will govern.
12. Inspection: Final inspection and acceptance or rejection will be made at the time of delivery, but all products and workmanship shall be subject to inspection and test at all times and places. The right is reserved to reject articles that contain defective material and workmanship. Rejected materials shall be removed by and at the expense of the contractor promptly after notification of rejection. The City shall not be obligated to pay the full price for any items that do not meet specifications; however, payment may be made at a proper reduction in price.
13. Bid Opening: Bids may be mailed or delivered to the Purchasing Agent for the City of Columbia, Tennessee. All bids will be opened and publicly read at a time

specified on the Proposal Sheet. Bids received after the specified time for opening, as shown on the invitation to bid, will not be accepted.

14. Cancellation: The City reserves the right to cancel an accepted bid or contract in whole or in part due to nonperformance or defective products.
15. Permit Requirements: Successful bidder will be responsible for securing any necessary permits for complying with all required inspections whether local state or federal.
16. Multi-Year Contracts: The City reserves the right to enter into multi –year contracts and further has the right to terminate multi year contracts due to non-appropriation of funds.
17. Financial Statements: Financial statements will be submitted upon request.
18. Term of Payment: Payment will be made in full after the satisfactory receipt of goods, materials, supplies, and equipment. Payment will be made in full upon satisfactory completion of all contractual services, public improvements and/or construction. Executed contracts must specifically state if there is any partial payment or other deviation from this method of payment.
19. Complaints – Vendors

Vendors shall have the right to present a complaint, dispute or grievance concerning unfair treatment, contracts, deliveries, payments, restrictions, and other incidents. The following steps are intended to provide uniform procedures for a vendor to express a problem and obtain remedy.

- i. Step One - Vendor must file a grievance with the Purchasing Agent no later than seven (7) calendar days after the occurrence of the dispute or incident. The complaint must be in writing and include all supporting data and desired solution or remedy. The Purchasing Agent will forward a copy of the complaint with the user department who shall provide a written reply within thirty (30) days to the Purchasing Agent who will review the response and if agreement forward the decision to the vendor.
- ii. Step Two – If the vendor is not satisfied with the Purchasing Agent’s response, the vendor may appeal in writing to the City Manager within 10 day from the date of the Purchasing Agents response, who shall with the advice of the Purchasing Agent and/or City Attorney, make a written determination to all parties involved. The City Manager’s decision shall be final.

3. SPECIAL CONDITIONS

3.1 All pricing shall be FOB City of Columbia Fire Department, 1000 South Garden Street, Columbia, TN. 38401

3.2. It shall be the sole responsibility of the City of Columbia’s Fire Chief or his designee to decide if exceptions or variations to the specifications as written herein are acceptable.

3.3 The vendor shall be responsible for all freight charges associated with returning merchandise for reasons of manufacturer's defect, non-compliance with specifications, or erroneous shipment of sizes.

3.4 Bids shall clearly indicate any applicable surcharges relating to sizes such as but not limited to extra small or extra large.

3.5 All unit prices as bid shall be fixed through September 30, 2020.

3.6 The awarded vendor may be allowed to adjust the unit bid after September 30, 2020 if justified in writing by a cost increase to the bidder from the manufacturer.

3.7 Any bid adjustment must be specifically disclosed to the Fire Department 30 days prior to the effective date for the increase in prices and prior to acceptance of the order and shall not be automatically applied.

3.6 If requested by the purchasing agent, all vendors shall promptly furnish a complete set of turnout gear for inspect. All samples will be supplied at no cost including freight to the City and shall either be returned after inspection or accepted as part of an initial order.

3.7 The vendor shall be expected to provide measuring services for all gear ordered. The price bid shall reflect that service.

3.8 Vendors shall be expected to complete measurement services within two weeks after receipt of a purchase order.

3.8 Vendors shall state the number of days until delivery after receipt of an order excluding the 14 days allowed for measurement.

4. INSURANCE

The vendor shall, **if requested by the Purchasing Agent**, purchase and maintain in force, at his own expense, such insurance as will protect him and the City from claims which may arise out of or result from the Vendor's execution of the work, whether such execution be by himself, his employees, agents, subcontractors, or by anyone for whose acts any of them may be liable. The insurance coverage shall be such as to fully protect the Owner, the City and the general public from any and all claims for injury and damage resulting by any actions on the part of the contractor or his forces as enumerated above. The Vendor shall furnish a copy of an original Certificate of Insurance, naming City of Columbia as an additional insured . Should any of the policies be cancelled before the expiration date, the issuing company will mail 30 days written notice to the certificate holder. The Vendor shall furnish insurance in satisfactory limits, and on forms and of companies that are acceptable to the City of Columbia and shall require and show evidence of insurance coverage on behalf of any subcontractors (if applicable), before entering into any agreement to sublet any part of the work to be done under this Contract.

The following insurance requirements are the minimum that will be acceptable:

1. Worker's Compensation Insurance – State statutory limits.
2. Commercial General Liability - Including products and completed operations coverage and contractual liability on the amount of \$500,000 CSL (combined single limit).

3. Commercial Automobile Liability including owned, non-owned and hired car in the amount of \$100,000 CSL.

5. PAYMENT - Payment will be made under the following terms and conditions:

5.1 Delivery of all merchandise FOB City of Columbia Fire Department.

5.2 Acceptance of all merchandise by the Fire Chief for the City of Columbia as evidenced by his signature on a properly prepared and accurate invoice

5.3 Within 20 days after completing all payment terms heretofore stated

6. DEFAULT

6.1 Bidder shall be considered in default on any order which exceeds the number of days for delivery after receipt of an order as specified in the bid submitted.

6.2 Orders or any portion thereof in default are subject to cancellation with no obligation of the City behalf to accept or pay for the order in default.

6.3 A vendor in default may be subject to cancellation of the award and/or debarment on future solicitations of a similar nature.

The remainder of this page is intentionally blank

6. SPECIFICATIONS FOR STRUCTURAL PROTECTIVE CLOTHING

All items bid must meet or exceed the specifications as written. Any reference to branded items is used to suggest the quality and workmanship requested by the City. Substitutions will be allowed unless clearly noted as “No Substitutions Allowed” in the specification.

6.1.0	General Construction and Design	Complies with Specifications Yes / No
6.1.1	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.	
6.1.2	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.	
6.1.3	The garment composite, consisting of the outer shell, moisture barrier and thermal liner, shall provide a Thermal Protective Performance (TPP) of approximately 37.7 when tested in accordance with NFPA 1971 standard.	
6.1.4	The garment composite, consisting of the outer shell, moisture barrier and thermal liner, shall provide a Total Heat Loss (THL) of approximately 296.1 when tested in accordance with NFPA 1971 standard.	
6.1.5	The Heat Transfer Index shall be similar to : 25 seconds for the shoulder when measured at 2psi and 25 seconds for the knee at 8 psi.	
6.1.6	Stress points – all outer shell stress points shall be reinforced using approximately 42 stitch bar tack	
6.1.7	Reflective Trim – Shall be 3” Scotchlite™ II of lime/yellow or similar product. All trim shall be sewn with four rows lockstitch with a minimum of six stitches/inch for most secure trim attachment.	
6.2.0	Warranty	
6.2.1	All products shall be warranted against defects in materials and workmanship for the useful life of the product.	
6.3.0	Labeling	
6.3.1	Labeling must contain: Do Not Remove This Label THIS STRUCTURAL FIREFIGHTING PROTECTIVE GARMENT MEETS THE GARMENT REQUIREMENTS OF NFPA 1971, 2007 EDITIONMADE IN THE U.S.A.	
6.3.2	Tracking Labels – Bar Coded to contain unique serial #, description, lot information, material description, compliance standards – labels shall withstand customary wash and wear cycles	

6.4.0	User Guides	
6.4.1	Guides shall be supplied with each garment and include – pre-use information, preparation for use; safety considerations, limitations, storage practices, Don/Doff, inspection information, adjustment , maintenance, cleaning, retirement & disposal, drag rescue device	
6.5.0	Outer Shell / Liners	
6.5.1	The outer shell shall be PBI® MATRIX +/- 7.25 oz./sq. yd. 40% PBI®/60% KEVLAR® highly constructed ripstop weave with extremely durable FPPE water resistant Teflon® alloy reinforced with a matrix of 600 denier filament KEVLAR® cables.	
6.5.2	THERMAL LINER MATERIALS: The thermal liner shall be comprised of 100% NOMEX® high-lubricity, stress reducing, filament/spun face cloth weighing approximately 3.5 oz./sq.yd, manufactured in a 2x1 twill weave from a combination of 200 denier filament NOMEX® fiber and colorfast producer dyed NOMEX® ring spun fibers. The high filament yarns shall represent no less than 60% of the face cloth’s composition, and shall be positioned in the warp direction of the weave. The face cloth shall be quilted to one layer spunlace aramid 85%NOMEX®/15% KEVLAR® weighing approximately 2.3 oz./sq. yd. and one layer of apertured spunlace aramid 85% NOMEX®/15% KEVLAR® weighing approximately 1.5 oz./sq. yd. both layers shall be treated with a Teflon® finish. Total weight of thermal liner should not exceed 7.5 oz./sq. yd	
6.5.3	MOISTURE BARRIER/THERMAL LINER CONSTRUCTION: Design shall be compatible with the outer shell so that the liner does not buckle, pull, or restrict body motion. 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. 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. Liner shall have a 2-inches wide 2-ply CROSSTECH®/NOMEX® pajama check extension sewn the full length of the neck. Hook and loop ¼-inch wide, shall be sewn on extension to tuck into pleat in outer shell collar. The moisture barrier shall be completely sewn to the thermal liner at its perimeter with the breathable membrane oriented inward toward the thermal liner and away from the outer shell. All moisture barrier seams shall be sealed as required by NFPA 1971. The moisture barrier/thermal liner shall finish no more than 1-inch from the cuffs and 3-inches from the hem.	
6.5.4	The moisture barrier/thermal liner shall be completely detachable from the outer shell for ease of cleaning by the use of hook and loop, zippers, and snaps. There shall be a thermoplastic 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.	
6.5.5	COAT LINER INSPECTION SYSTEM: There shall be an opening located on the coat liner approximately 10-12-inches in length at the center back of the neck separating the thermal barrier and moisture barrier. This opening will provide the ability to completely invert the coat liner to properly view the integrity of	

	the entire liner system. There shall be a one-piece approximately 4-inches hook and loop sewn to the back side of the liner system with a corresponding one-piece hook and hook sewn to the inside of the outer shell to ensure proper alignment when installing the liner system into the outer shell. The liner inspection system is completely hidden when the liner is properly installed into the outer shell.	
6.5.6	Style – 3 panel construction with an inverted pleat on each side where front and back body panel pieces meet.	
6.5.7	Reflective Trim – High Visibility Pattern: One 3-inch strip shall be set full circumference at the bottom sweep of the outer shell; one 3-inch strip shall be set around each sleeve within 2-inches above the cuff; one 3-inch strip shall be set around each sleeve just above the elbow; one 3-inch strip shall be set full circumference at the chest; two 3-inch strips shall be set vertically on the back of the coat forming a box with the upper back strip and sweep strip.	
6.5.8	Pocket - Liner shall have an 8 ½ inch internal pocket of outer shell material	
6.5.9	Collar Design – three piece contoured 4-layer collar configured such that when the collar is raised it shall remain standing while providing continuous thermal and moisture protection around the neck and face. Collar constructed of two layers of outer shell collar shall be fully lined with one layer of moisture barrier material and two layers of approximately 1.5 oz. apertured thermal liner material. The collar shall provide proper interface with liner to insure no moisture penetration through the collar seam to inside of coat. Collar shall be sewn with a pleat on the innermost layer. Pleat shall have hook and hook sewn on the underside to engage the moisture barrier extension on the liner. Raised height of 3 inch with a contoured overlap at the front of the coat. Collar closure shall be provided by hook and hook and loop. Collar shall be of such design so as not to interfere with SCBA face masks or helmet.	
6.5.10	Hanger loop – external loop of double layer of outer shell material attached at collar seam and capable of holding 80 lbs for one minute	
6.5.11	Drag Rescue Device – 1 ½ inch Kevlar® strap located between outer shell and thermal liner meeting NFPA requirements. The harness shall have a hand loop that exits the outer shell through a 2-inch polymer coated aramid reinforced slot on the back of the coat just below the collar and is held in place by means of a hook on the strap and attached to the outer shell. This strap is then secured under a flap that is sewn in at the neck /collar area.	
6.5.12	Radio Pockets – One approximately 3 ½-inches wide x 9-inches deep full bellows radio pocket that expands by means of side and front gussets to a thickness of 2-inches in front and back shall be located on the left chest. Pocket and flap shall be set with the top and bottom pocket corners and top corners of flap reinforced with a bar tack. A brass eyelet shall provide drainage of moisture. Pocket flap shall be approximately 4 ½-inches x 5-inches. Pocket shall be fully lined on all three sides with poly/cotton lining. Pocket flap shall close to the pocket top using hook and loop fastener system.	

6.5.13	<p>Hand warmer Pocket - Two approximately 9-inch square semi-bellow and handwarmer pocket combinations that expand by means of side and bottom gussets to a thickness of 2-inches in back only and 0-inches in front shall be set one each to the front panels. The pocket shall be set at the bottom of the coat hem and reflective trim shall be set on each pocket. There shall be an approximately 6-inch opening on the rear side of the bellow of the pocket. Pocket shall be lined inside with thermal liner material and have a KEVLAR® twill backer. Pocket and flap shall be set with each corner of pocket opening and top corners of flap reinforced with bar tacks for additional strength. Drainage of moisture to be provided by brass eyelets. Each pocket flap shall have the following approximate dimensions of 10-inches wide by 3-inches high in front and 5-inches high in rear. Each flap shall incorporate a polymer coated aramid pull tab for easy opening. A hook and loop closure system shall be provided.</p>	
6.5.14	<p>Mic Tab There shall be two 1-inch x 3-inch triple layer outer shell fabric microphone tabs attached with bar tacks on each side. One shall be set above the radio pocket on the left chest and one shall be set on the right chest at the same height.</p>	
6.5.15	<p>Flashlight Strap: There shall be a 1 ¼-inch x 8 ½-inch outer shell fabric flashlight holder x-stitched to the right chest of the coat above the chest trim. The strap shall have hook and loop fastener system applied to each end of the strap. There shall be a 703 hook applied to outer shell approximately 5-inches above the outer shell fabric strap. It shall be securely fastened to the coat by means of a self fabric strap looped through the end of the 703 hook and bartacked to the outershell.</p>	
6.5.16	<p>Name Panel – Coat will be provided with an easily removable name tab attached to the bottom rear of the coat. Vendor will be provided name to be placed on tab at time of order by fire department.</p>	
6.5.17	<p>Storm Flap – A storm flap measuring not less than 3-inches wide, nor less than 22-inches in length shall be set on the outside of the right side of the coat opening for maximum thermal protection and clear drainage. The inner lining of the storm flap shall be CROSSTECH® moisture barrier material meeting all requirements for moisture barriers sandwiched between two layers of outer shell fabric.</p>	
6.5.18	<p>Front Closure – 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.</p>	
6.5.19	<p>Cuffs – The cuff of the sleeve shall be reinforced with a binding of black polymer coated aramid not less than 3-inches in total width for abrasion resistance and thermal protection. At least 2-inches of the cuff reinforcement shall extend down the interior of the outer shell sleeve with a ¾-inch wide strip of hook and loop sewn full circumference to the topside of the cuff reinforcement. One female snap fastener shall be set in the hook fastener to assist in attaching outer shell to moisture barrier/thermal liner.</p>	
6.5.20	<p>Elbow – The sleeve shall have an insert throughout all layers that shall provide a natural bend in the sleeve. This insert shall be set in the back of each sleeve and shall be approximately 6-inches wide in the middle and 3-inches wide at the seams. The outer shell insert</p>	

	shall consist of outer shell material for abrasion resistance and thermal protection..	
6.5.21	Shoulder Cap & Padding A 4-inch wide area at the top of the shoulders extending six inches from the collar seam shall be capped with outer shell material for abrasion resistance and thermal protection. One layer of uninterrupted fire retardant closed-cell foam shall be oriented between the outer shell and the shoulder cap reinforcement.	
6.5.26	Bellows – Bellows underarm construction shall be used in all layers of the coat - outer shell/moisture barrier/thermal liner - ensuring maximum upper body freedom of movement including complete arm mobility when reaching up and/or forward. Bellows construction shall extend to all inner layers of the coat making it possible for the fit and freedom of movement, derived from the outer shell bellows construction, to be passed through the inner layers to the wearer's body. The outer shell/moisture barrier/thermal liner bellows shoulder construction shall consist of an underarm and shoulder bellows of elongated shape not less than 8-inches wide by not less than 15-inches long sewn into each of the coats fabric layers. The bellows in each layer shall begin at a point corresponding to the front of the armpit, wrap around under the arm and shoulder joint, and terminate at the rear top of the shoulder.	
6.5.27	Sleeve Well – A combination of 3.0 oz./sq. yd. Teflon® treated NOMEX® spun face cloth quilted to araflo/E-89™ and one layer of breathable CROSSTECH® moisture barrier leader shall be sewn no more than 1-inches back from the combination liner sleeve end to form a sleeve well. One male snap and one ¼-inch wide strip of hook and loop shall be sewn full circumference to the end of the thermal liner/CROSSTECH® moisture barrier leader to help secure the combination liner to the outer shell. The sleeve well shall prevent water and hazardous materials from entering the sleeve when arms are in a raised position. The combination liner sleeve ends shall be inserted into the outer shell sleeve ends by means of lining up the male snaps then attaching the hook and loop fastener of the combination liner sleeve end with the female snap and hook and hook fastener of the outer shell cuff. The combination liner shall extend to within 1-inch of the sleeve end.	
6.5.28	Wristlets – An internal wristlet shall consist of a 2-ply knit of 48% NOMEX®/48% KEVLAR® and approximately 4% Spandex. Wristlet to be Teflon® water resistant alloy not less than 8-inches extending completely over the palm with a thumbhole preventing the wristlet from sliding back. Wristlets shall be double stitched and bound to the moisture barrier/thermal liner.	
6.5.29	Yoke – A layer of approximately 3.0 oz./sq. yd. Teflon® treated NOMEX® spun face cloth quilted to araflo/E-89™ 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.	
6.6.0	Moisture Barrier	

	The moisture barrier shall be CROSSTECH® (Type 2C): NOMEX® substrate laminated to a lightweight breathable, Teflon membrane; weighing 5.0 oz./sq. yd.	
6.7.0	Pants	
6.7.1	Construction - Multi piece and designed to interface with coat not less than 32 “ in length	
6.7.3	Reflective Trim – around bottom of cuff and approximately 2 – 3 “ above hem	
6.7.7	Storm Fly – The outer shell shall have an overlapping fly front running the full length of the fly on the left side. The flap shall not be less than 2 ½-inches wide at the waistband. The bottom of the fly shall be reinforced with a bartack. The storm fly shall be outer shell material, lined with the appropriate size strip of CROSSTECH® moisture barrier material to prevent wicking.	
	Hook and loop storm fly/zipper pants closure: Pant closure shall be provided by thermoplastic zipper. The storm fly shall be held closed along its length by means of a hook and loop fastener closure along the leading edge for a distance of not less than 6-inches 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	
	THERMAL FLY ASSEMBLY: The moisture barrier/thermal liner shall be constructed with an extension on the left side at the waist of all layers of the fly opening to assure continuous thermal and moisture protection. This overlap shall be positioned between the layers of the outside storm fly. A hook fastener shall be sewn to the moisture barrier/thermal liner to engage corresponding loop fastener on the underside of the outside storm fly.	
6.7.9	Waistband – The waist of the pants shall be reinforced on the inside with 2-ply of outer shell material. The pant waist shall be turned under and double stitched to the outer shell. Eight suspender buttons shall be appropriately spaced around the waistband to accommodate the use of suspenders	
6.7.10	External Take ups – External Adjustment strap on each side of pant . Each take-up strap shall be comprised of two sub-component straps.	
	Inseam - A banded pant insert shall run continuously from the top of the knee of one leg, through the crotch, to the top of the knee of the opposite leg.	
6.7.11	Bellow Knee – The knee shall incorporate a comfort/mobility design in all layers. This design shall allow for a natural bending motion of the knee. The knee shall be polymer coated aramid with mitered corners and measure approximately 9-inches across the bottom, 7-inches on the sides and gradually increase to approximately 12-inches at the center point at the apex. The apex of the knee shall allow for not less than a 1 ½-inch bellows at the center. The radial seam shall provide a gusset that the knee can fall into when crawling, climbing, bending, kneeling, etc. The bottom of the knee shall be placed in relation to the cuff to fall anatomically correct. Two additional layers of uninterrupted fire-retardant, closed-cell foam cushioning shall be added beneath knee reinforcement.	

6.7.12	<p>Leg Cuff - The cuff area of the pant shall be reinforced with a binding of polymer coated aramid not less than 2-inches in total width for greater strength, abrasion resistance, and thermal protection. In addition a piece of reinforcement material shall be sewn on the inseam area of the pant leg above the pant cuff and below the pant trim, in order to provide extra abrasion protection. The material used on the kick shield shall match the material used on the pants cuffs. The back portion of the cuff will gradually curve upward from each side seam to a maximum of 2-inches at the center back of the pant leg to prevent wear on the back of the cuff</p>	
6.7.13	<p>Bellow Pocket – One 9-inches wide x 10-inches high, outside full bellows pockets that expand by means of side and bottom gussets to a thickness of 2-inches in front and back shall be located on the right fore thigh. Pockets shall be fully lined with KEVLAR® twill on all 4 sides inside of pocket; two layers of KEVLAR® lined self-fabric on shell inside pocket. Drainage of moisture is to be provided by brass eyelets. First layer 6 ½-inches high, second layer 4 ½-inches high. Both layers stitched in 3-inch increments to create six tool compartments. Drainage of moisture is to be provided by brass eyelets. Pocket flaps shall be 5-inches x 10-inches. A hook and loop fastener closure system shall be set provided. One 10-inches wide x 10-inches deep outside full bellows pockets that expand by means of side and bottom gussets to a thickness of 2-inches in front and back shall be located on the left fore thigh. Pockets shall be fully lined with KEVLAR® twill on all 4 sides inside pocket. Drainage of moisture to be provided by brass eyelets. Pocket flaps shall be 11-inches x 5-inches. A hook and loop fastener closure system shall be provided.</p>	
6.7.14	Pants shall have belt loops to accommodate 2” belt	
6.8.0	Suspenders & Belts	
6.8.2	<p>Front pull straps - Two 8-inch front pull straps shall be constructed as follows: 2-inches wide non-elastic polyester webbing shall be fed through 2-inch metal loops and secured with a lock-stitch at one end. A steel double D-ring shall be fed through the webbing. The other end of the webbing shall be fed through a 2-inch wide thermo-plastic D-ring and secured with a lock-stitch. The D-Ring shall function as a pull strap for easily adjusting the suspenders for proper fit.</p>	
6.8.3	<p>Shoulder Straps - Two 18-inch shoulder straps shall be constructed as follows: 2-inches wide non-elastic polyester webbing shall be fed through the top half of the steel double D-ring and secured with a lock-stitch. Two 7-inch straps made of 2-inches wide elastic webbing shall be joined with a 2-inch overlap at the end of each shoulder strap with a lock stitch. The end of each strap shall be fed through a 2-inch metal loop and secured with a lock stitch.</p>	
6.8.4	<p>Horizontal Back Strap – One 2 ½-inch horizontal strap made of 2-inch wide elastic webbing shall be set perpendicular between the two shoulder straps and back straps at the point of overlap, secured with a lock-stitch and reinforced with a lock-stitch “X” through the joining straps.</p>	
6.8.5	<p>Webbing - Four pieces of 2-inches wide elastic webbing shall feed through the 2-inch metal loops at each end of the front and back straps and be secured to 2-inch buttonhole peerless loops</p>	

	constructed of wire with a zinc plate finish allowing for eight points of attachment. Each piece of webbing shall be long enough so that when fed through the 2-inch metal loop and folded over, shall measure at least 2-inches long on each side. Each peerless loop shall be configured such that they easily rotate around a suspender button to allow for freedom of motion	
6.8.6	Shoulder Pad - Each shoulder strap shall be encapsulated with a 2 ¼-inches wide x 13-inches long sheath of padding constructed of fire-retardant closed-cell foam laminated to Nomex pajama check substrate. Shoulder pads shall start 1-inch up from the cross point of the horizontal back strap and be bartacked at each end so they do not slide forward.	
6.8.7	Suspenders shall attach to the pants using suspender buttons as described in 6.7.9 above	
6.8.8	Belt shall be Kevlar with thermoplastic buckle	
6.9.0	Sizing	
6.9.1	Coats shall be made available in even chest sizes with corresponding sleeve lengths available in short, regular, and long.	
6.9.2	Pant sizes shall be made available in even waist sizes with inseam lengths available in extra short, short, regular, and long.	

The remainder of this page is intentionally blank

IRAN DIVESTMENT ACT

A person engages in investment activities in Iran if:

- (1) The person provides goods or services of twenty million dollars (\$20,000,000) or more in the energy sector of Iran, including a person that provides oil or liquefied natural gas tankers, or products used to construct or maintain pipelines used to transport oil or liquefied natural gas, for the energy sector of Iran; or
- (2) The person is a financial institution that extends twenty million dollars (\$20,000,000) or more in credit to another person, for forty-five (45) days or more, if that person will use the credit to provide goods or services in the energy sector in Iran and is identified on a list, created pursuant to § 12-12-106, as a person engaging in investment activities in Iran as described in this section.

By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each bidder is not on the list created pursuant to Tennessee Code Annotated § 12-12-106."

Vendor Name: _____

Vendor Signature: _____ Date: _____

**City of Columbia – Invitation to Bid – Turnout Gear
Solicitation # 422-1019-03, Bid Sheet – Page 1 of 1**

Item	Manufacturer	Model	Fixed Unit Cost thru September 30, 2015	Delivery Days after receipt of purchase order & measurement
Turnout Coat				
Turnout Pants				
Turnout Suspenders				
Turnout Belt				

Toll free support number for repair & maintenance questions _____

In compliance with this Invitation for Bid for Turnout Gear, solicitation # 422-0814-10 and subject to all conditions, both general and special, thereof, the undersigned offers and agrees to furnish any or all items and/or services upon which prices are quoted, at the price quoted as specified.

My signature certifies that the accompanying bid is not the result of or affected by, any act of collusion with another person or company engaged in the same line of business or commerce, or any act of fraud punishable under the Laws of the State of Tennessee or the United States. Furthermore, I understand that fraudulent and collusive bidding is a crime and can result in fines, prison sentences, and civil damage awards. I hereby certify that I am authorized to sign this bid for the bidder.

Complete Legal Name of Firm: _____

Signature: _____ **Date :** _____

Name (print) _____ **Title** _____