CHARLOTTE

Department of General Services – City Procurement

Addendum # 1	Fire Turnout Gear ITB # 269-2020-031

To: All Prospective Bidders

Date: January 28, 2020

Subject: Addendum 1 – ITB # 269-2020-031 – Fire Turnout Gear

Please note modifications below for the ITB.

Item #	Page #	Section #	Specification	Questions/Answers
1	1	Introduction		**Modification:** Addition of Wisconsin to Participating Agencies
2	3, 107 & 119	4	Required Forms	**Modification:** Addition of Form 11 – Licensed Distributor Letter
3	14	Instruction to Bidders	1.22	**Modification:** Brand Name Section updated to 1.22-1.23
4	24	3	3.10	**Modification:** Deletion of "*Bids shall include Company policies regarding selection of personnel who will be frequenting City facilities*.".
5	26	3	3.22	**Modification:** Merchandise return pick up timeline revised to seventy-two (72) hours.
6	89 - 104	3	3.25	**Modification:** Specifications added for City of Asheville
7	112	4	Form Five – Pricing Sheet	**Modification:** City of Asheville added to Price Sheet

In order to constitute a complete bid response, you must acknowledge receipt of this addendum with the Addenda Receipt Confirmation Form in Section 4 of the ITB in your Bid. ***Any Bidder not acknowledging receipt of an issued addendum may not be considered.***

In the event additional changes or clarifications to this ITB are warranted, all Bidders are responsible for monitoring the City's Contract Opportunity site or www.ips.state.nc.us or for additional addenda.

We appreciate your interest in doing business with the City and look forward to receiving a Bid from your company.

Sincerely,

Shiela Bailey
Procurement Officer
cc: ITB Team, ITB File

LICENSED DISTRIBUTOR LETTER

ITB 269-2020-031

FIREFIGHTING TURNOUT GEAR

Bidders must provide a letter from the manufacturer with their Bid Response Package that states the Bidder is an authorized distributor.

CITY OF ASHEVILLE'S MORNING PRIDE #LTO-41i3TB COAT AND #LTO-41i3PB PANT BLACK SPECIFICATIONS SHEET	INSERT BIDDER'S PROPOSED ALTERNATE PRODUCT/BRAND/MODEL NUMBER: _____		
REQUIREMENTS	**YES**	**NO**	**EXCEPTIONS**
SCOPE: This specification defines the minimum requirements for structural firefighter personal protective equipment (PPE) providing limited protection as defined by NFPA 1971, Standard on Protective Ensemble for Structural Fire Fighting, 2007 Edition. In the absence of comment on a particular point, industry standard practice shall be presumed to prevail. Every exception to specifications must be clearly spelled out at the time of bid.			
UNITS OF MEASURE: Current NFPA standards applicable to this product specification express values for measurement requirements in SI (metric-based) units, followed by US (inch-pound) approximate equivalents in parentheses. For the convenience of the fire department, this product specification reverses the order and presents the more familiar US approximation first, followed by the SI requirement in parentheses.	**YES**	**NO**	**EXCEPTIONS**
CERTIFICATION: The manufacturer must certify that the garments proposed in its bid meet or exceed all requirements of NFPA 1971. The manufacturer must also list and label this product with Underwriters Laboratories Inc. (UL) or Safety Equipment Institute (SEI), as the third party certification organization prescribed in NFPA 1971. All certification testing and test preconditioning must have been performed by an ISO 17025-certified laboratory. UL, SEI or a UL Authorized Client Test Data Program laboratory will fulfill this requirement. The manufacturer shall be registered to ISO 9001, Quality Management Systems – Requirements, 2000.	**YES**	**NO**	**EXCEPTIONS**
WARRANTY: The manufacturer must provide a lifetime warranty against defects in materials and workmanship with the bid package.	**YES**	**NO**	**EXCEPTIONS**
PRODUCT COUNTRY OF ORIGIN: For liability reasons, garments must be manufactured in the United States of America or Canada by companies with their assets and incorporation within the United States of America or Canada.	**YES**	**NO**	**EXCEPTIONS**

	YES	NO	EXCEPTIONS
LABELING REQUIREMENTS: Labels shall be permanently and integrally printed onto breathable materials that meet all the requirements for labels of NFPA 1971. Garment labels shall meet all requirements of NFPA 1971 Flame Resistance Test One (for vertical flame resistance of cloth). The garment shall be clearly labeled to fully identify the material content of all three layers: outer shell, moisture barrier and thermal liner. In addition, each separable layer of garment shall be labeled with the FEMSA-style DANGER label in an obvious location.			
CARE INSTRUCTIONS: The manufacturer shall provide a user information guide for the garments, which complies with user information requirements of NFPA 1971. Topics shall include, but not necessarily be limited to: pre-use information, preparation for use, inspection frequency and details, don/doff, use consistent with NFPA 1500, maintenance and cleaning, and retirement and disposal criteria and considerations. This document shall be packaged with each garment along with a specification summary sheet describing garment custom options, sizing and production details. This written information shall be in complete compliance with NFPA 1971 requirements, and shall reference same.	**YES**	**NO**	**EXCEPTIONS**
TRACEABILITY PROGRAM: The manufacturer shall have in place a computer maintained traceability program that provides for the assignment of a production control number to each garment. The traceability program must be capable of tracing the garment through production, from the bolts of cloth used in all three layers of the garment composite construction, to the assignment of the garment to the individual firefighter. This production control number shall be visibly located on the garment label and on other protected areas of garment.	**YES**	**NO**	**EXCEPTIONS**
PATENT CONSIDERATIONS: The Bidder, without exception, shall indemnify and save harmless the Participating Public Agency and its employees from liability of any nature and kind, including cost and expenses for or on account of any copyrighted, patented or un-patented invention, process, or article manufactured or used in the performance of the contract, including its use by the Purchaser. If the Bidder uses any design, device, or materials covered by letters, patent or copyright, it is mutually agreed and understood without exception that the bid prices shall include all royalties or costs arising from the use of such design, device, or materials in any way involved in the work.	**YES**	**NO**	**EXCEPTIONS**

SIZING: To ensure a perfect fit, sizing shall be based on actual measurements taken of the firefighter by a trained measurement specialist. Sizing measurements shall be taken according to a schedule and location(s) mutually agreed upon between the manufacturer and the Participating Public Agency. Garments shall be available in custom sizing as follows: coat chest in 2-inch (5.1 cm) increments, coat sleeve in 0.5-inch (1.3 cm) increments, coat back length in 1-inch (2.5 cm) increments, pant waist in 2-inch (5.1 cm) increments and pant inseam in 1-inch (2.5 cm) increments. A full range of women's sizing, on women's patterns, must also be available. Each sleeve and inseam length shall provide 100% gradation from shoulder to wrist and from hip to ankle, to provide proper fit for individual arm and leg lengths. Pattern tailoring to custom-fit neck, bicep, hip/seat and thigh circumferences must also be provided, when needed, at no additional charge. Neither Small-Medium-Large-Extra Large sizing nor women's garments cut to men's patterning are considered acceptable, since proper fit facilitates mobility and minimizes stress.	**YES**	**NO**	**EXCEPTIONS**
FLAMMABILITY OF CONSITUENT MATERIALS: Labels, bindings, hang-up loops and production labels shall be tested for flame resistance and shall comply with the requirements of NFPA 1971 Flame Resistance Test One (for vertical flammability of cloth).	**YES**	**NO**	**EXCEPTIONS**
SELF-BINDING: Liner and moisture barrier shall be stitched together and turned, then topstitched, to create a self-binding. The extra bulk of separate binding material is specifically prohibited.	**YES**	**NO**	**EXCEPTIONS**
THREAD: All thread used in structural seams shall be Nomex® of minimum Tex size T-70. Light colored garments and trim areas shall feature yellow thread. Black and dark garments shall feature black thread. Tan or bronze colored garments shall feature tan thread.	**YES**	**NO**	**EXCEPTIONS**

STITCH METHODS			
MAJOR A & B SEAMS: Except for the collar Major A seam, which is single-needle lock stitched three times, all Major A & B seams (as defined by NFPA 1971) shall be double stitched, double feld throughout all three layers (outer shell, moisture barrier and thermal liner), and shall be made with Nomex® thread, Tex size T-90. Detailed stitch and seam type requirements are shown below: Stitch Type 401; Double lockstitch, as defined by ASTM D 6193-97; Modified Seam Type LSc-2; Double feld seam, modified only to ensure that both stitch lines penetrate all layers of cloth at joining, otherwise as defined by ASTM 6193-97; all moisture barrier seams shall be tape-sealed to meet all requirements of the NFPA 1971; and Liquid Penetration Resistance Test	**YES**	**NO**	**EXCEPTIONS**
MINOR SEAMS: Most Minor seams, such as storm shields and mated hems, shall also be stitched with the specified Nomex thread. Detailed stitch and seam type requirements are shown below: Stitch Type 301; Lockstitch as defined by ASTM D 6193-97; Seam Type SSae-2 as defined by ASTM D 6193-97, shown (a) before and (b) after requiring turning.	**YES**	**NO**	**EXCEPTIONS**
POCKETS: Flat garment pockets shall be stitched with the specified Nomex® thread. Detailed stitch and seam type requirements are shown below: Stitch Type 301; Lockstitch as defined by ASTM D 6193-97; Seam Type LSd-2 as defined by ASTM D 6193-97; 3-Dimensional pocketing shall feature these same construction details, but the reinforced single stitch Seam Type LSd-1 may be substituted for LSd-2; detailed seam type requirements include Stitch Type 301, Lockstitch and Seam Type LSd-1 as defined by ASTM D 6193-97.	**YES**	**NO**	**EXCEPTIONS**
TRIM AND DANGER LABELS: Trim and DANGER labels shall be stitched with the specified Nomex® thread. Detailed stitch and seam type requirements are shown below: Stitch Type 301; Lockstitch and Seam Type SSbd-1 as defined by ASTM D 6193-97.	**YES**	**NO**	**EXCEPTIONS**
SINGLE LAYER HEMMING AND FINISHING: Single layer hemming and finishing shall be stitched with the specified Nomex® thread. Detailed stitch and seam type requirements are shown below: Stitch Type 301; Lockstitch and Seam Type EFb-1 as defined by ASTM D 6193-97.	**YES**	**NO**	**EXCEPTIONS**

	YES	NO	EXCEPTIONS
POCKETS: If exterior pockets are specified in either the COAT CUSTOM OPTIONS TO BE PROVIDED section or in the PANT CUSTOM OPTIONS TO BE PROVIDED section, the following requirements shall apply to all such custom option specified exterior pockets: All pockets and flaps shall be reinforced at the top corners with bar tack stitching. All pockets shall be reinforced with an extra layer of NFPA-certified outer shell, moisture barrier, or other NFPA-certified reinforcement material for extra durability. The exact location of the reinforcements shall be identified in the custom options section(s). All pockets shall have a means to drain water and shall have a means of closure. All pocket closures shall be made either with hook and loop fastener tape a minimum of 1.5 inches (3.8 cm) wide, with a flap, or with snaps. The specific placement of the closure system shall be declared at the time of order.			
TAILORED GRADING OF GARMENT LININGS: Wherever garment linings are specified, including but not limited to thermal linings and moisture barriers, each such lining layer shall be tailor-graded to fit within the overall garment composite of all layers without causing bunching or binding when the garment is worn.	**YES**	**NO**	**EXCEPTIONS**
POINTS OF STRESS: All points of stress shall be reinforced with sturdy bartacks. Rivets are not acceptable because of their potential for rust and electrical or heat conduction.	**YES**	**NO**	**EXCEPTIONS**
HIGH TEMPERATURE, NFPA 1971-CERTIFIED MATERIAL REINFORCEMENTS: Reinforcements shall be provided at cuffs and pockets and shall meet the requirements of NFPA 1971. For cuff reinforcements only: Manufacturer shall provide cuff reinforcements made of outer shell material at no additional cost. If the purchaser specifies reinforcements made of materials other than outer shell material, the manufacturer shall identify the additional cost for the specified material. For pocket reinforcements only: Any NFPA 1971-certified material may be used in the reinforcement of the pocket. If the purchaser requests specific NFPA 1971-certified materials for pocket reinforcements, the manufacturer shall identify the additional cost for the specified material.	**YES**	**NO**	**EXCEPTIONS**

	YES	NO	EXCEPTIONS
ASSET TRACKING SERVICES: Upon request, the manufacturer shall be capable of providing a Windows-compatible software program for the tracking of care, cleaning and maintenance of the department's PPE. This tracking program shall meet or exceed all record-keeping requirements of standard NFPA 1851, *Standard on Selection, Care, and Maintenance of Structural Fire Fighting Protective Ensembles*, 2001 Edition. Labels on each separable part of the garment shall include a standard style interleaved 2 of 5 barcode containing (at a minimum) an individualized serial number for asset tracking purposes. The manufacturer must be capable of providing onsite or internet training to department personnel who are involved with the daily use of this tracking program, and if there is an additional cost involved for this service, the Bidder must disclose those costs at the time of bid.			
REPAIRS AND ALTERATION SUPPORT: The manufacturer shall furnish, free of charge, reasonable quantities of NFPA 1971-certified thread, materials and other supplies to allow the department to manage its own ongoing internal maintenance efforts. Also, the manufacturer shall provide on call at no charge, during normal business hours, a liaison for the repair department to assist the Fire Department on a telephone consultation basis, on all maintenance or repair questions that might arise. Additionally, the manufacturer shall agree to expedite, on its own cost-only basis, all repairs that must be performed at the manufacturer's plant, rather than in department, over the life of the contract.	**YES**	**NO**	**EXCEPTIONS**
HIGH TEMPERATURES THERMAL INSULATING MATERIALS REQUIREMENT: Because thermally stable materials are essential to maximizing protective performance in firefighters' PPE, and because NFPA only states "minimum" performance requirements, all thermal liner or thermal enhancing materials used in the garments shall also meet the following criteria after the 500 degree F oven test: 1) material shall remain intact and flexible; and 2) no portion of the material shall crack, crumble, or flake.	**YES**	**NO**	**EXCEPTIONS**

BREATHABILITY REQUIREMENT: Excluding where required by NFPA standard, necessary for functionality, or specifically called out in the custom option sections, all materials used in the construction of the garments shall be breathable and all moisture barrier material must be as specified in the following materials section, or must be Crosstech. The breathability requirement includes but is not limited to: collar, chinstrap, storm shield, fly, waterwells, front coat facings, labels, and reinforcement cushioning where applicable. Areas where non-breathability is allowed (absent Custom Option specifications): trim, hook and loop fastening, hardware or hardware backing, and external pocketing.	**YES**	**NO**	**EXCEPTIONS**
CONDUCTIVE AND COMPRESSIVE HEAT RESISTANCE (CCHR): Using breathable materials as outlined in the section titled Breathable Materials, there shall be a minimum area of 4" x 4" (10.2 cm x 10.2 cm) at the shoulders and elbows that provide a minimum of 25 CCHR at 2 psi, and a minimum 6" x 6" (15.2 cm x 15.2 cm) area at the knees that provides 25 CCHR at 8 psi. All three compression areas shall be constructed of high temperature fiber based materials and sewn to the thermal liner on the inside of the liner toward the moisture barrier.	**YES**	**NO**	**EXCEPTIONS**
SEAM PROTECTION AT CUFFS: At the coat and pant cuff Major A seams, the reflective trim shall stop just before the folding of the full feld seam and for additional abrasion protection be covered by a sewn on, 0.75" (1.91 cm) wide black Nomex webbing material laid on top of the Major A seam and covering each end of the trim.	**YES**	**NO**	**EXCEPTIONS**
APPLICABLE DOCUMENTS: The following standards in their active versions on the date of invitation for bid shall form a part of this specification to the extent specified herein. Standard Titles include: ASTM D 6193-97 - Standard Practice for Stitches and Seams; NFPA 1500 on Fire Dept. Occupational Safety & Health Program; NFPA 1851 - on Selection, Care, and Maintenance of Structural Fire Fighting Protective Ensembles; and NFPA 1971 - Standard on Protective Ensemble for Structural Fire Fighting.	**YES**	**NO**	**EXCEPTIONS**
COAT: To avoid liability and interface problems, coats and pants shall be procured from the same manufacturer.	**YES**	**NO**	**EXCEPTIONS**

DESIGN CONCEPT (STYLING): The coat shall be approximately 6 inches (15.2 cm) longer at the rear hem than at the front and provide continuous and unbroken moisture barrier and thermal liner protection from the collar seam to the hem at the bottom of the coat tail. Each coat length shall be determined by each individual's torso length and the coat-to-pant interface as defined by NFPA 1500. Coat design must interface properly with standard waist high bunker pants.	**YES**	**NO**	**EXCEPTIONS**
PATTERNING CONCEPT: Garments shall feature a tailored three-piece body, one-piece back construction throughout the outer shell, moisture barrier and thermal liner layers. One-piece garments (either all layers or some layers) will not be considered acceptable since they cannot be tailored to hard-to-fit personnel. Similarly, garments with seams in mid-back are not considered acceptable because of backbone irritation that can occur with SCBA use. To facilitate individual tailoring needs, the major A & B seams joining the one-piece back to the right and the left front body panels (outer shell and all interior layers) shall be located at the most lateral position when the coat is laid flat for inspection.	**YES**	**NO**	**EXCEPTIONS**
PATTERNING REQUIREMENTS: To assure maximum freedom of movement and reduce kinetic resistance with minimum garment weight and bulk, coat patterning shall include the following features: degree of slope on shoulders shall be no more than 20%; hydraulic Butterfly sleeve patterning with 85-degree Lift Up Release Action shall be provided to minimize coat hem rise; sleeve attachment shall minimize shoulder lift and allow a full 360 degrees freedom of movement; coat hem rise with overhead reach of both arms not to exceed 4-inch (10.2-cm) maximal extension on properly fitted garments; Shell-and-liner retraction at the cuff shall not exceed 1 inch (2.5 cm) when both arms are raised overhead. This helps eliminate wrist exposure; 10-inch (25.4-cm) chest over-sizing shall be provided; coat sweep measurements must be consistent with the chest over-size at the hem; reach when measured from cuff to cuff, with coat lying flat, and standard length sleeves extended to each side, shall be provided as detailed below: Chest Size Standard Reach - 40 in (101.6 cm) 66 in (167.6 cm), 42 in (106.7 cm) 67 in (170.2 cm), 44 in (111.8 cm) 68 in (172.7 cm), and 46 in (116.8 cm) 68 in (172.7 cm).	**YES**	**NO**	**EXCEPTIONS**

DRAG RESCUE DEVICE (DRD): Manufacturer shall supply an NFPA required and certified Drag Rescue Device with each coat. The device shall be designed to fit each individual chest size. Each strap will be properly labeled with DANGER labels that include what chest size the Rescue Strap is designed to fit along with instructions for care and installation/removal of the Rescue Strap. Rescue Strap shall be designed in a fashion that it functionally provides a dynamic and articulated action and to eliminate excess strapping material hanging down the back when installed between the garment's liner and outer shell. The device shall be constructed using two components: a 1.75" (4.45 cm) Kevlar webbing grab handle; and a free-floating loop of Kevlar rope to go around each of the wearer's arms/shoulder. The grab handle shall be positioned at the rear of the upper torso and through the grab handle. The grab loop shall extend upward and pass through a reinforced slot in the coat outer shell just below the center rear of the collar seam where it will exit the outer shell where it will be covered by an outer shell tunnel. The protruding grab loop shall then fold back down over the top of the tunnel and be stowed by Velcro with the pile sewn for the width of the tunnel and the hook sewn on the grab loop. There shall then be an outer shell flap sewn below the collar that will fold down over the stored grab loop and held in place with Velcro to reduce the chances of snagging the grab loop by accident. **To facilitate** comfort and safety the Grab Handle shall be constructed of soft and pliable Kevlar webbing meeting the following specifications: Description 100% Kevlar Double Plain Weave - Black with Natural Kevlar Center; Warp Yarn 1500/1000/2.75z Kevlar T-970F Black; 1500/1000/2.75z Kevlar T-961 Natural; Weft Yarn 1500/1000/2.75z Kevlar T-970F Black; Catch cord Tex size T-50 3-Ply/9.5z Bonded Kevlar Sewing Thread Black; Width 1.75" (4.45 dm); Thickness 0.064" ± 0.010" (.163 cm ± .0254 cm); and Tensile 5,000 lb minimum (22.24 kN). **To facilitate** comfort and safety the free-floating loop shall be constructed of soft and pliable Kevlar rope meeting the following specifications: Description 100% Kevlar Tubular Plain Weave – Natural; Warp Yarn 1500/1000/2.75z Kevlar T-961 Natural; Weft Yarn 1500/1000/2.75z Kevlar T-961 Natural; Catch cord Tex size T-35 Crispin Kevlar thread; Width .038" (.097 cm); Thickness 0.144" ± 0.005" (.366 cm ± .013 cm); Tensile 3500 lb minimum (15.57 kN); and Rescue Strap shall be sewn with Kevlar thread with a minimum Tex size T-210.	**YES**	**NO**	**EXCEPTIONS**

	YES	NO	EXCEPTIONS
LINER ATTACHMENT: The completed liner-moisture barrier assembly shall attach by means of four (4) evenly spaced glove snaps to each outer shell front facing to reduce weight, bulk and stiffness. To provide continuous moisture and pathogen protection at the front, the liner shall be positioned so it is sandwiched between the coat front facing and a breathable pathogen shield. The use of zippers or hook and loop fasteners in this area is not allowed due to their added weight, bulk and stiffness. Liner sleeves shall be attached at the outer shell cuff by means of snaps on two (2) sets of outer shell fabric tabbing strips per cuff. These snaps shall be isolated by the tabbing material so that they will not abrade against the outer shell. To provide continuous moisture protection and pathogen protection at the neck, the liner shall be positioned so that it is sandwiched between an outer-facing pathogen shield and an inside facing of the specified outer shell material, both folded over and sewn in at the neck seam. The liner system design shall not allow products of combustion or other contaminants to move into the liner interior between the moisture barrier and thermal liner. For instance, separately hemmed and bartacked liner and moisture barrier with open edge designs shall not be acceptable. Attachment shall be by means of four (4) glove straps that penetrate only the layer of the attachment facing towards the liner, so that metal contact at a wearer's neckline is completely eliminated.			
COAT CERTIFICATION LABEL ON LINER: The coat certification label on the liner shall be integrally printed on FR Cotton Indura® and lockstitched to the inside right body panel in a fashion to provide an inside liner pocket.	**YES**	**NO**	**EXCEPTIONS**
COAT CERTIFICATION LABEL ON SHELL: The coat certification label on the shell shall be integrally printed on FR Cotton Indura® and lockstitched to the shell along one side of the label at the back of coat.	**YES**	**NO**	**EXCEPTIONS**

COLLAR: The collar shall be of layered construction, consisting of a layer of waterproof moisture barrier and a layer of NFPA 1971-certified insulating material, sandwiched between two (2) layers of specified outer shell material. NFPA compliant collars shall be at least 3 inches (7.6 cm) high while CGSB compliant collars shall be at least 4 inches (10.2 cm) high. The design shall incorporate in its patterning a natural contour that will allow proper fit and performance in the standing (upright) or stowed position. There shall be no vertical or horizontal seams or stitching in the body of the collar. Left outside of collar shall have a sewn piece of 2-inch x 2-inch (5.0-cm x 5.0-cm) hook and loop fastener hook tape for chinstrap-to-collar closure. Each collar shall be graded to individual coat sizes.	**YES**	**NO**	**EXCEPTIONS**
CHIN STRAP: The chinstrap shall be of layered construction identical to that of the collar configuration described in the previous paragraphs. Chinstrap shall be of a crescent shaped design with minimum dimensions of, + or – 0.50 inch (1.2 cm): 9 inches (22.5 cm) long across the top corners, 10.5 inches (26 cm) long across the bottom corners, and 3.5 inches (8.75 cm) in vertical height, measured at the center. The leading underside edge of the chinstrap shall have a 1.5-inch-wide (3.8 cm-wide) horizontal strip of hook and loop fastener pile to ensure closure and to ensure passage of the Whole Garment Liquid Penetration Test.	**YES**	**NO**	**EXCEPTIONS**
HANG-UP LOOP: An 80-pound (36.3 kg) tear strength hang-up loop shall be provided at the interior collar seam. The loop shall be constructed of triple layers of the specified outer shell material, lockstitched to the coat. Webbing is not acceptable.	**YES**	**NO**	**EXCEPTIONS**
SLEEVES: To prevent stovepiping, sleeves shall be individually graded by coat size and sleeve length. For maximum freedom, sleeve design shall feature extra full cut one-piece outer shell set-in sleeves with built-in bellows. To reduce the chances of possible top seam failure in that high thermal exposure area, the sleeve Major A seam shall follow the underside of the arm and shall not cross over the outside of the elbow joint. Sleeve seam and sleeve attachment to coat body in all layers shall be 100% double feld and double stitched for maximum strength (that is, Major A seam requirement, as previously defined in this specification).	**YES**	**NO**	**EXCEPTIONS**

INNER WRISTLET & WATERWELL: Every coat shall feature 4.5-inch (11.4-cm) long, double-layer 100% Nomex knit inner wristlets protected by a flame-resistant and moisture-resistant waterwell. The inner wristlet shall be sewn to the thermal liner sleeve end (not to the outer shell). A specified moisture barrier waterwell with an elastic gather shall be sewn to the moisture barrier sleeve end with all seams sealed to allow maximum channeling of water away from inside the moisture barrier/ thermal liner sleeve end. This waterwell must pass the NFPA 1971 Whole Garment Liquid Penetration Test. The thermal liner/wristlet shall be bar tacked and seam sealed at the junction of the moisture barrier sleeve to waterwell seam to prevent liner pullout. This inner waterwell assembly shall be interface capable with the appropriate glove to provide wrist protection during the NFPA 1971 Whole Garment Liquid Penetration Test.	**YES**	**NO**	**EXCEPTIONS**
EXTERNAL WRISTLET: Every coat shall feature a 2.5-inch (6.4 cm) long 100% Nomex knit outer wristlet, which shall be mounted to the end of each outer shell sleeve to prevent liquid and debris movement up the sleeve between the outer shell and the moisture barrier/ thermal liner assembly.	**YES**	**NO**	**EXCEPTIONS**
FRONT CLOSURE PROTECTIVE OVERLAP: Two-inch-wide (5.1 cm-wide) panels of breathable moisture/ pathogen barrier and specified thermal liner materials shall be provided at coat front closure facings to preclude any type of break in the protective envelope. The entire circumference of a closed coat shall consist of specified shell, moisture barrier and thermal liner materials. The inside trailing edge of each 2-inch-wide (5.1-cm-wide) inner panel shall have the breathable moisture/ pathogen material wrapped around the edge by 0.5 inch (1.3 cm) to create an antiwick guard to prevent soakthrough during the required NFPA 1971 Whole Garment Liquid Penetration Test. An additional layer of 6-inch-wide (15.2-cm-wide) breathable moisture/pathogen barrier material shall be sewn between the 2-inch-wide (5.1 cm-wide) panels and outer shell coat body for the entire length of coat front in a fashion to prevent liquid entry during the NFPA 1971 Whole Garment Liquid Penetration Test.	**YES**	**NO**	**EXCEPTIONS**
COMPOSITE MATERIALS: The specified has been determined the ONLY acceptable combination of materials. Any substitution of materials shall be grounds for immediate disqualification of bid without further consideration.	**YES**	**NO**	**EXCEPTIONS**

OUTER SHELL: 7.5 oz.; PBI/Kevlar Matrix ripstop weave; 400 Denier Kevlar Cables; 40% PBI/60% Kevlar; EWR – Black.	**YES**	**NO**	**EXCEPTIONS**
THERMAL LINING: 7.4 oz. calendared 100% spun 3.6 oz. Meta Aramid facecloth; 1 layer of 2.3 oz. E-89, and one layer 1.5 oz. E-89.	**YES**	**NO**	**EXCEPTIONS**
MOISTURE BARRIER: 5.0 oz; Crosstech Bi-Component (PTFE) on a 3.2 oz. Nomex III A facecloth.	**YES**	**NO**	**EXCEPTIONS**
COAT CUSTOM OPTIONS TO BE PROVIDED: Instructions in this custom options section that contradict earlier specifications or statements supersede those earlier specifications or statements as long as the required certifications are not compromised. LTO Chinstrap; Inspection Port Liner; Liner Detachable; Liner Label Pocket; Take Up Straps 2 Postman; Articulating Rapid Rescue Strap with New Coat. **LETTERING**: New York-2 trim -Lime 2-Tone Scotchlite; New York Trim -Double-Stitched; 2 -3" Vertical Back Bands -Lime 2-Tone Scotchlite To create a box; Back Patch -Gemini Matrix- Black; <LEAD PUBLIC AGENCY NAME> 9 -3" sewn letters -lime Scotchlite; Hem Patch w/Snaps -Gemini Matrix –Black; FF 1st Initial + Last Name -avg 8 letters; 8 -2" sewn letters -lime Scotchlite; Sewn Periods; Chicago Closure (see option request below); Dead Air Panels Extended – Coat; Coat Cuffs - Arashield Black; Half Hi Bellows Pockets -Gemini Matrix- Black - 7" x 9" x 1.5" Lined with Kevlar Handwarmer Pockets behind Bellows Pockets; Mic Tab -Gemini Matrix- Black - right chest - 0.5" x 2.5"; Mic Tab -Gemini Matrix- Black - left chest - 0.5" x 2.5"; Radio Pocket -Gemini Matrix -Black - left chest - 8" x 3" x 2"; Snap on Radio Pocket Flap -w/Velcro - left chest; Notch Flap -Left - left chest; Notch Flap - Right - left chest; Sewn D-Ring -Gemini Matrix EWR Black - right chest Place Inside Top Undershield Pocket at Top; Sewn D-Ring -Gemini Matrix EWR Black - right side Place Inside Bottom Undershield Pocket at Top; SL-90 Flashlight Clip -Gemini Matrix- EWR -Black - right chest; Undershield Pockets -2 - Gemini Matrix –Black; 2 Liner attachment Snaps on Tail; and Kevlar-Tabbed Long Wristlets.	**YES**	**NO**	**EXCEPTIONS**
COAT CUSTOM OPTIONS FOR FIRE DEPARTMENT CONSIDERATION: The Chicago Closure -2" Velcro/Hooks & Dees -Gemini Matrix Black in base Coat is the standard specification. Provide pricing as an option to provide a 1.5" Velcro/Zipper Coat Closure -Gemini Matrix - EWR Black in lieu of the Chicago Closure per coat: **INCREASE**_____ **DECREASE**_____ PER COAT	**YES**	**NO**	**EXCEPTIONS**

PANTS: To avoid liability and interface problems, coats and pants shall be procured from the same manufacturer.	**YES**	**NO**	**EXCEPTIONS**
DESIGN CONCEPT (STYLING): The pant shall be of a traditional waist-high-only design to facilitate full torso ventilation of front, rear and sides of trunk for maximum body cooling effect to help minimize firefighter heat stress. For this reason, other than waist-high pants shall not be considered acceptable or "equal," since additional trunk wrapping traps heat and moisture, increasing heat stress buildup while also creating mechanical resistance when covering the natural torso flexion point of the waist.	**YES**	**NO**	**EXCEPTIONS**
PATTERNING CONCEPT: Garments shall feature a tailored four-piece outer shell with a two-piece moisture barrier and lining. A pant with a four-piece moisture barrier and thermal liner shall be provided, at no additional charge, when and if an individual's tailoring needs require it.	**YES**	**NO**	**EXCEPTIONS**
PATTERNING REQUIREMENTS: To assure maximum freedom of movement and reduced kinetic resistance with minimum garment weight and bulk, the pants patterning shall: incorporate hydraulic, swivel action leg-to-torso interfaces; incorporate an oversized diamond-shaped crotch insert, graded according to size, for maximum action stride, optimum stepping reach and no "in-crotch" seaming; meet individual tailoring needs, and offer superior functionality. Diamond shall extend from just above the left knee to just above the right knee, and be centered equally from front to rear. Width of diamond at top of crotch shall be approximately 4 inches (10.2 cm), graded to size; and ensure that pants rest in normal body line balance of 22 inches (55.9 cm) center distance at the cuff.	**YES**	**NO**	**EXCEPTIONS**
REINFORCED CUSHIONED KNEE: The cushioning for the Knee reinforcement if required, and the thermal pad sewn to the internal side of the thermal liner assembly, shall provide a minimum of 25 CCHR and be comprised of breathable, fiber based materials.	**YES**	**NO**	**EXCEPTIONS**
SUSPENDER BUTTONS: Eight (8) heavy duty, rust-resistant suspender buttons shall be positioned around the waist. Suspender buttons shall be mounted through waistband of triple layer outer shell material that is internally reinforced with an additional band of coated needlepunch aramid.	**YES**	**NO**	**EXCEPTIONS**

LINER ATTACHMENT: The moisture barrier and thermal liner assembly shall be attached to the outer shell at the cuff by means of two (2) Nomex® webbing snap assemblies per leg, and to the waistband, at the waist, with seven (7) evenly-spaced glove snaps. The liner system design shall not allow products of combustion or other contaminants to move into the liner interior between the moisture barrier and thermal liner. For instance, separately hemmed and bartacked liner and moisture barrier with open edge designs shall not be acceptable.	**YES**	**NO**	**EXCEPTIONS**
PANT CERTIFICATION LABEL ON LINER: The pant certification label on the liner shall be integrally printed on FR Cotton Indura and lockstitched to the inner left hip area.	**YES**	**NO**	**EXCEPTIONS**
PANT CERTIFICATION LABEL ON SHELL: The pant certification label on the shell shall be integrally printed on FR Cotton Indura and lockstitched at the top rear of the waist, at the inside.	**YES**	**NO**	**EXCEPTIONS**
FLY FRONT: The outer shell fly shall be lockstitched to the left side of the front opening and shall be in proportion to waist size and crotch rise in both length and width. Fly inner lining shall extend at least 2 inches (5.1 cm) to the left of the outer shell fly attachment seam and shall be constructed of certified breathable moisture barrier and thermal liner. The right front pant opening shall have an internal facing extending at least 2 inches (5.1 cm) to the right and constructed of specified fabric. In combination with the liner, the system shall offer 360-degree protection without gaps during movement of the outer shell moisture barrier and thermal liner. Closure shall be by means of a minimum 1.5-inch-wide (3.8-cm-wide) hook and loop fastener, and all construction techniques used shall provide liquid penetration protection under the NFPA 1971 Whole Garment Liquid Penetration Test. The fly shall be graded to the waist size of garments and crotch rise.	**YES**	**NO**	**EXCEPTIONS**
COMPOSITE MATERIALS: The specified has been determined the ONLY acceptable combination of materials. Any substitution of materials shall be grounds for immediate disqualification of bid without further consideration.	**YES**	**NO**	**EXCEPTIONS**
OUTER SHELL: 7.5 oz.; PBI/Kevlar Matrix ripstop weave; 400 Denier Kevlar Cables	**YES**	**NO**	**EXCEPTIONS**
40% PBI/60% Kevlar; EWR - Black	**YES**	**NO**	**EXCEPTIONS**

THERMAL LINING: 7.4 oz. calendared 100% spun 3.6 oz. Meta Aramid facecloth; 1 layer of 2.3 oz. E-89, and one layer 1.5 oz. E-89	**YES**	**NO**	**EXCEPTIONS**
MOISTURE BARRIER: 5.0 Oz; Crosstech Bi-Component (PTFE) On A 3.2 Oz. Nomex III A Facecloth	**YES**	**NO**	**EXCEPTIONS**
PANT CUSTOM OPTIONS TO BE PROVIDED: Instructions in this custom options section that contradict earlier specifications or statements supersede those earlier specifications or statements as long as the required certifications are not compromised. Inspection Port Liner; Liner Detachable; 3" Cuff trim -Lime 2-Tone Scotchlite; Cuff Trim - Double-Stitched; Non-Std Wide 1.5" Velcro Fly - Gemini Matrix –Black; Dead Air Panels – Pants; Angled Cuffs -Pants -Arashield Black; Pants Cuffs - Arashield Black; BiFlex Heat Channel Knees Replaceable -Kevlar/Nomex OS Black; Horizontal Strips in BiFlex knee to be Arashield Black; X-Large Bellows Pockets -Pants -Gemini Matrix -EWR -Black - 10" X 10" X 2" Lined with Kevlar; E Z Grip Flaps - PBI Matrix /EWR Rip Stop – Black; Pocket divider in Left Pocket only 4" from front of Pocket; Sewn D-Ring -Gemini Matrix EWR Black - center rear Place directly below harness tabs Snap Style Suspender Attachment; Place Suspender Attachments Inside Waist; Dyna-Back Suspender w/ Snap Attach and Quick Adjust Installed; Suspender Padding; Harness Pants -NY Style -No Harness -Gemini Matrix EWR Black; and (2) Postman Take Up Straps - located above the NY Style harness path.	**YES**	**NO**	**EXCEPTIONS**
EMERGENCY REPLACEMENT: In the event the Participating Public Agency encounters an incident in which several sets of turnout gear are damaged and deemed no longer usable, the manufacturer shall provide replacement garments of the exact size and configuration as those damaged within fourteen (14) working days of the Participating Public Agency's order providing serial numbers or sizes of the damaged items. If required, the manufacturer shall be prepared to provide "loaner" gear in as close a size as possible within three (3) working days of the Participating Public Agency's notification with sizing information.	**YES**	**NO**	**EXCEPTIONS**

ITB 269-2020-031
FIRE TURNOUT GEAR

The undersigned proposes to furnish the following items in strict conformance to the bid specifications and bid invitation issued by the City of Cl
Bid. Any exceptions are clearly marked in the attached copy of bid specifications. Please do not include taxes in your Bid.

BIDS ARE DUE NO LATER THAN 11:00 A.M., on MARCH 26, 2020

ITEM	DESCRIPTION	BRAND NAME	STYLE NUMBER	UOM	EST ANNUAL QTY	UNIT PRICE	EXTENDED PRICE	BIDDER'S EQUIVALENT	EQUIV UNIT
1	Kombat Flex Turnout Coat	Globe	D2257G	EA	250				
2	Athletix Turnout Coat	Globe	A42NG10	EA	250				
3	Nomex Coat	Globe	D0757G	EA	10				
4	GPS Turnout Pants	Globe	F2257G	EA	250				
5	PBI Max 7oz. Turnout Coat	FireDex	FXRCTPBI7EF	EA	250				
6	PBI Max 7oz. Turnout Pants	FireDex	FXRPTPBI7EF	EA	250				
7	Tecgen 71 Turnout Coat	FireDex	FXRCTTG71EF	EA	250				
8	Tecgen 71 Turnout Pants	FireDex	FXRPTTG71EF	EA	250				
9	Tecgen 51 Technical Rescue Coat	FireDex	TECGEN 51	EA	100				
10	Tecgen 51 Technical Rescue Pants	FireDex	TECGEN 51	EA	100				
11	Particulate Barrier Hood	FireDex **or** PGI	H-41 **or** BarriAire Gold	EA	1200				
12	Asheville - Turnout Gear Coat	Morning Pride	LTO-4li3TB	EA	50				
13	Asheville - Turnout Gear Pant	Morning Pride	LTO-4li3PB	EA	50				
						TOTAL: $			
PRICING OPTIONS:									
14	Guard Jacket Component	Globe							
15	Guard Pant Fly Component	Globe							
16	Guard Pant Cuff Component	Globe							

**** Price sheet available in Excel format by emailing: shiela.bailey@charlottenc.gov ****

Total Bid Price must include all equipment, labor, delivery, installation, consultation, vendor profit and all other costs ass
No additional costs will be allowed.

1. **Administrative Fees:**

   The Company **shall** submit a **minimum** of one (1) percent of overall CCPA Program spend by the City and Participating the term of the Contract to the City as an Administrative Fee. The Administrative Fee shall be paid no later than thirty (3 mutually agree to the quarterly report outlining the CCPA spend. The Company shall indicate their Administrative Fee

   _____%

2. **Non-Core Items – Fixed Percentage Discount**

   The Company **shall** provide a fixed percentage discount from the List Price (list price less discount) included in the full line catalog identified in the Specifications for all other items (Non-Core) included in the catalog for the life of the

   a. Insert the verifiable catalog name/edition: _____

   b. Insert the fixed percentage discount for Non-Core Items: _____

3. **Pricing Incentives and Rebates:**

   Please identify any incentive and rebates offered based on volume, dollar amounts, core credits or other criteria below:

Rebate Description	Amount or Percentage

Payment Terms: _____

Delivery After Receipt of Order: _____

The undersigned hereby certifies the Bidder has read the terms of this Bid document, including the sample Contract (Sectio
bind the firm to the information herein set forth.

Date: _____ **Company:** _____

By: _____ **Signature:** _____

Print name and title of signatory