

**Bidder Instructions and Specifications:
Fire Department Wildfire Protective Clothing
Due: 10:00 a.m. October 21, 2016**

The City of Eagleville, Tennessee is seeking bids for Fire Department equipment as specified below.

General Purpose:

The City of Eagleville intends to acquire protective clothing specifically for use in wildfire applications. Bidders should submit bids including unit prices for each item specified, freight/shipping costs, and any other necessary charges.

Specifications:

SCOPE: The purpose of the clothing is to provide protection for emergency services personnel during search, rescue, recovery, and site stabilization operations at Technical Rescue operations and the adverse environmental effects encountered by personnel performing wildfire firefighting operations.

STANDARDS: All garments produced shall meet or exceed the criteria set forth in the current edition of NFPA 1951 PROTECTIVE ENSEMBLES FOR TECHNICAL RESCUE OPERATIONS, NFPA 1977 STANDARD ON PROTECTIVE CLOTHING AND EQUIPMENT FOR WILDLAND FIREFIGHTING, FED-OSHA CFR 1910, Subpart L, and OSHA 29 CFR Part 1910.1030.

All components and materials used in the construction of garments shall be third party tested, certified and listed for compliance to NFPA 1951 & 1977. The label of the third party tester shall denote certification.

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

MATERIAL PERFORMANCE: The garment, consisting of an outer shell shall provide a Total Heat Loss (THL) of not less than 650 when tested in accordance with NFPA 1951 standard and not less than 450 when tested in accordance with NFPA 1977.

The garment, consisting of the outer shell shall provide a Radiant Protective Performance (RPP) of not less than 7 when tested in accordance with NFPA 1977 standard and a Thermal Protective Performance (TPP) of not less than 10 when tested in accordance with NFPA 1951 standard.

OUTER SHELL MATERIAL:

Sigma 7.0 oz./sq. yd. 45% Meta-aramid / 32% Lenzing FR / 17% Polyamide / 6% Para-aramid. Construction shall be a 2 x 1 twill weave with water/stain repellent finish. Color shall be tan.

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

REFLECTIVE TRIM: All trim shall be sewn with four (4) rows lockstitch 301, minimum (6) stitches/inch for most secure trim attachment. Trim shall be 2" Ventilated Scotchlite™ Lime Yellow Triple Trim.

COAT: (1) 2" strip shall be set full circumference at the bottom sweep of the outer shell; (1) 2" strip shall be set around each sleeve approximately 4" above the cuff. In addition, (1) 2" strip shall be set around each sleeve just above the elbow; (1) 3" strip shall be set full circumference at the chest.

PANT: (1) 2" strip shall be set full circumference around the bottom of the cuff a minimum of 4" from the bottom of the cuff. In addition, (1) 2" strip shall be set along the full length of the pant outseam excluding the cuff and waistband.

LETTERING PATCH: There shall be one 4"x18" 2-layer self-fabric one-line letter patch attached by hook and loop on yoke.

LETTERING: size 2" or 3" letters of Scotchlite™ lime/yellow shall be set at the customer specified location. Details of lettering to be determined at time of order.

SIZES: Coats shall be made available in even chest sizes with corresponding sleeve lengths available in short, regular, and long. Pant sizes shall be made available in even waist sizes with inseam lengths available in short, regular and long.

LABELING: Each garment shall have a garment label(s) permanently and conspicuously attached stating at least the following language, as well as detailed warning instructions provided by the manufacturer.

THIS UTILITY PROTECTIVE ENSEMBLE GARMENT ELEMENT MEETS THE REQUIREMENTS OF NFPA 1951, STANDARD ON PROTECTIVE ENSEMBLES FOR TECHNICAL RESCUE INCIDENTS, 2013 EDITION. THIS WILDLAND FIRE FIGHTING PROTECTIVE GARMENT MEETS THE REQUIREMENTS OF NFPA 1977 STANDARD ON PROTECTIVE CLOTHING AND EQUIPMENT FOR WILDLAND FIRE FIGHTING, 2011 EDITION.

DO NOT REMOVE THIS LABEL
MADE IN THE U.S.A.

LABEL SYSTEM: There shall be a label permanently affixed to each garment. The label shall contain the following information:

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

USER INFORMATION GUIDE: Each garment shall include a User Information Guide with information required by NFPA 1951 and NFPA 1977. This guide shall include:

- (a) Pre-use information:
 - Safety considerations.
 - Limitations of use.
 - Garment marking recommendations and restrictions.
 - A statement that most performance properties of the garment cannot be tested by the user in the field.
 - Warranty information.
- (b) Preparation for use:
 - Sizing/adjustment.
 - Recommended storage practices
- (c) Inspection:
 - Inspection frequency and details.
- (d) Don/Doff:
 - Donning and doffing procedures.
 - Sizing and adjustment procedures.
- (e) Use:
 - Proper use consistent with NFPA 1500, Standard on Fire Department, Occupational Safety and Health Program, and 29 CFR 1910, 132.
- (f) Maintenance and Cleaning:
 - Cleaning instructions and precautions with a statement advising users not to use garments that are not thoroughly cleaned and dried.
 - Inspection details.
 - Maintenance criteria and methods of repair where applicable. Decontamination procedures for both chemical and biological contamination.
- (g) Retirement and disposal:
 - Retirement and disposal criteria and considerations.

WARRANTY: Each garment shall have a limited lifetime warranty against defects in material and workmanship which is detailed in the User Instruction, Safety and Training Guide that is attached to each garment.

COUNTRY OF ORIGIN

The garments shall be manufactured in the United States.

WILDLAND COAT

COAT CONSTRUCTION: The coat shall be designed of a 3-panel construction to provide a proper fit. When measured at the center of the back from the collar seam to the hem bottom, the coat shall measure – 29", 32" or 35" long. Sleeves shall be of full length and of shoulder insert design.

COLLAR: The collar shall be of 2-layer configuration such that when the collar is raised it shall remain standing while providing continuous thermal protection around the neck and face. To ensure this protection, two layers of outer shell collar shall be used.

The collar shall be snug fitting and shall completely cover the neck and throat area when in the raised position. Raised height shall be approximately 3" inches, with a contoured overlap at the front of the coat. Collar closure shall be provided by 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 eye and face protection devices.

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.

ELBOW: The outer shell shall have polymer-coated aramid reinforcements

CUFFS: The cuff of the sleeve shall consist of self-fabric hook and loop with nickel loop. The self-fabric tab shall measure approximately 1" x 9" with a 1" x 2 ½" hook and 1" x 6" loop.

BACK PANEL CONSTRUCTION: There shall be a bi-swing back design incorporated to allow freedom of movement.

COAT FRONT CLOSURE DESIGN: The complete outer shell coat front closure design shall consist of a

FRONT CLOSURE SYSTEM completely protected by a self material **INTERIOR STORM FLAP**.

INTERIOR STORM FLAP: A storm flap measuring not less than 3.5" wide, nor less than 22" in length shall be set on the inside of the right side of the coat opening. The interior storm flap shall include two (2) layers of outer shell fabric.

FRONT CLOSURE: The front closure shall consist of a #9 thermoplastic zipper such that fast closure and exit is possible yet the coat remains securely closed while working.

SEMI BELLOWS POCKETS: 8" x 8" x 2" semi bellows pocket. The pockets shall be fully lined with Kevlar twill. The pockets shall be set on each side at the bottom of the coat hem and reflective trim shall be set on each pocket.

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

Each pocket flap shall measure 4" x 9". Pocket flaps shall close to the pocket using 2 pieces of 1" x 3" hook set vertically on the underside of the pocket flap and 1 piece of 1" x 7" loop set horizontally on underside the pocket.

RADIO POCKET: On the left chest of the coat, there shall be a 3.5" x 7" x 2" radio pocket. The pocket shall be fully lined with polycotton.

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. Drainage of moisture to be provided by brass eyelets.

Each pocket flap shall measure 4" x 5". Pocket flaps shall close to the pocket using 1 piece of 1" x 2" hook set vertically on the underside of the pocket flap and 1 piece of 1" x 2" loop set horizontally on underside the pocket. The pocket flap shall include an antenna notch.

MIC TAB: Above the radio pocket, there shall be a 1"x3" triple layer self-fabric mic tab attached with bar tacks on each side. Bar tacks shall be a minimum 42-stitch bar tack.

SELF FABRIC FLASHLIGHT STRAP: On the right chest of the coat, there shall be a 1½" x 9 ½" self fabric flashlight holder x-stitched to outer shell of coat. Strap shall have 1.5"x 2" hook applied to one end of the strap and 1.5"x2" loop applied to opposite end of strap. Approximately 3" above, there shall be a 1"x3" triple layer self-fabric tab attached with bar tacks on each side. Bar tacks shall be a minimum 42-stitch bar tack.

WILDLAND PANT

PANT CONSTRUCTION: The pant shall have a low rise waist for superior comfort and fit.

STORM FLY/CLOSURE: The outer shell shall have an overlapping fly front running the full length of the fly on the left side. The flap shall not be less than 2" wide at the waistband. The bottom of the fly shall be reinforced with one 42-stitch bartacks.

The storm fly shall be held closed along its length by means of a hook and loop fastener closure 1" 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, (1) snap shall be positioned at the inside top of the fly. Pant closure shall be a #9 thermoplastic zipper. The storm fly shall be outer shell material.

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

EXTERNAL TAKE-UPS (WAIST): One adjustment device shall be affixed to the outside on each side of the pant. Each take-up strap shall be comprised of two sub-component straps. The front strap shall be 1" wide x 1.25" 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 .5" apart. The loop shall face toward the back and hold two nickel plated 1" metal loop. The back strap shall be 1" wide x 6.5" in length of double layered outer shell material and hook and loop fastener. The rear 6" shall be sewn and triple bartacked to the shell. The front section of the strap shall remain loose and be aligned so that it is threaded through the metal loop. It shall have a piece of 1" x 2" hook fastener attached to the loose strap end to engage the corresponding 1" x 6" loop fastener at end of strap to allow for adjustment.

EXTERNAL TAKE-UPS (LEG): One adjustment strap shall be affixed to the outside of the pant leg at the cuff. The take-up strap shall be comprised of a 1" wide x 8.5" long self fabric strap and a 1" wide x 6.5" long piece of loop. The loop shall be tacked to the pant cuff in 1" intervals. The self fabric strap shall be attached under the last two tacks. The strap shall have a 4" strip of hook attached to the end. The strap shall thread through a nickel plated 1" metal loop which is attached to the pant leg using a 2.5" x 1" self fabric double layered strap. The strap shall have a 4" strip of hook attached to the end to secure the loose end of the take up strap to the loop for adjustment purposes.

RADIAL INSEAM BAND: The pant inseam shall incorporate a comfort/mobility design. This design shall eliminate crotch seams, providing for a more comfortable fit while decreasing bunching of materials. Mobility shall be gained through this design. This design shall reduce restriction of leg movement.

The 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.

KNEE: The knee shall allow for a natural bending motion of the knee. The knee shall be reinforced with polymer coated aramid and shall have 2 layers of Lite-n-Dri padding placed between the reinforcement and the shell of the garment.

CUFFS: The cuff area of the pant shall be reinforced with polymer coated aramid.

SEAT REINFORCEMENT: An additional layer of self-material shall be applied to the exterior of the pant seat for added abrasion protection.

ZIPPER LEG PANTS: Each pant leg shall have an expandable panel in the outside seam that has a thermoplastic zipper extending from the cuff to 12" up the side of the pants. The zipper shall be in the unzipped/open position when at the upper position and shall be closed when zipped down at the cuff. When in the closed position, the zipper shall have a double layer of self material that shall cover the entire width of the zipper and shall run the entire length of the zipper area. Behind the zipper shall be a panel constructed of self material that when in the open position provides the same level of protection as the pant. The panel shall taper from a minimum of 5" at the cuff to 1" at the upper position. The bottom of each pant leg shall measure at least 11" when properly zipped closed and laid flat and shall measure at least 14" wide when unzipped.

POCKETS: The garment shall have one 8" x 8" x 2" full bellows pocket positioned on the left upper thigh. The pocket shall be lined with Kevlar® twill on all three sides of the pocket and lined 3" up the pant shell. There shall be one piece of 1.5" x 8" loop attached horizontally to the pocket and two pieces of 1.5" x 2.75" hook positioned vertically on the boxed flap for closure. One 8" x 8" x 2" semi bellows pocket shall be positioned on the right upper thigh. The pocket shall be lined with Kevlar® twill on all 4 sides inside the pocket and self fabric 5" up on the outside of the pocket. The pocket shall have 3 compartments measuring 4" on the bellow side, 1" in the middle and 3" on the front side. There shall be two pieces of 1" x 2" loop positioned horizontally on the pocket and two pieces of 1" x 2" hook positioned vertically on the pocket flap.

BELT AND BELT LOOPS: The pants shall have five (5) self fabric belt loops sewn to the waistband with bartacks at each end. The belt loops shall accommodate a 2" Kevlar® webbing belt with thermoplastic clasp. Belt to be included.

SUSPENDER: Pant is to include an X-back suspender.

Bidding Instructions:

Potential bidders may request complete bid instructions, detailed specifications, and bid forms by contacting City Hall at 615-274-2922 and referencing "Fire Department – Wildfire Protective Clothing Bid Opportunity" or by **visiting www.EaglevilleTN.com and following the link to bid opportunities through the Vendor Registry link.**

Bidders may price items by line item as necessary to clearly communicate price, but must clearly list

- 1) a lump sum including the purchase of all equipment, freight, and other costs, and
- 2) estimated time to fulfill delivery of all related items.

Bidders may substitute components for equal or greater components if/when the substitute does not limit the capability or performance of the overall product in comparison with the specified component. Bidders must deliver bids no later than **10:00 a.m. October 21, 2016** in sealed envelope marked "**Fire Department Wildfire Protective Clothing, October 21, 2016**" to the address below, or alternatively, may submit bid documents **electronically via the Vendor Registry link found at www.EaglevilleTN.com.**

City of Eagleville
Attn: City Manager
108 South Main Street
Eagleville, TN 37060

Bids received after the deadline may be rejected, and the City is not responsible for bids mailed but not delivered prior to the deadline, regardless of the postmark date.

Bid Form:

Fire Department Wildfire Protective Clothing

Due: 10:00 a.m. October 21, 2016

Submittal of the bid form is required for consideration. However, bidders may also choose to attach additional information that may be helpful such as quotations on their own company form or brochures and other information clearly identifying the product(s) proposed and/or to identify certain items within the specification by unit cost. Unit cost information may be used by the City of Eagleville to optimize its purchase with the selected bidder.

Company Name: _____ Phone: _____

Contact Name: _____ Email: _____

Address: _____

Bid Items:

Description	Quantity	Unit Cost	Line Total
Coats as specified	9		
Pants as specified	9		
SHIPPING	N/A		
OTHER (Provide Detail in Warranty/Other Section)			

TOTAL (Sum of all line item prices)

\$ _____

Describe any manner in which the product submitted under this bid does not conform exactly to the specifications provided (attach additional page if necessary):

Number of calendar days required to fulfill delivery of all related items: _____

Warranty Information and other notes (additional information may be attached):

I have read and understand the specifications of the bid being requested and am capable of delivering said product(s) and service(s) within forty-five (45) days of notification of award. I understand that the City of Eagleville reserves the right to consider the qualifications of bidders and the references of similar work if requested, and that the City may award bids based in part on such factors other than price.

Signature of Authorized Representative: _____ Date: _____