

KANAWHA COUNTY COMMISSION

P. O. BOX 3627
407 VIRGINIA STREET, EAST
CHARLESTON, WEST VIRGINIA 25301
(304) 357-0115

Request for Bids

Re: Firefighting Turnout Gear for the Kanawha County Commission Office of
Emergency Services

Date: November 26, 2012

Fiscal Year: 2012-2013

Bid Opening: Bids must be received on or before Monday, December 10, 2012, at 11:00
a.m. in the Kanawha County Commission Purchasing Office, 407 Virginia
Street, East, Third Floor, Room 229, Charleston, WV 25301 (P.O. Box 3627,
Charleston, WV 25336)

INSTRUCTIONS TO BIDDERS:

***PLEASE USE THIS FORM AS THE COVER SHEET FOR YOUR BID**

1. Bids must be received in a sealed envelope with the date and time of the bid opening on the outside of the envelope. Faxed bids will not be accepted.
2. Bid must be F.O.B. Delivery Point, unless otherwise indicated in Proposal.
3. All bids should be signed and in ink, showing all facts and the total amount of the bid.
4. Once bids are unsealed, all bid documents become Public Record.
5. The County reserves the right to accept or reject in part or in whole any bid submitted, whichever is in the best interest of the County.

| Item No. | Description |
|----------|---|
| 1 | Firefighting Turnout Gear for the Kanawha County Commission Office of Emergency Services per the Attached Specifications |

Vendor Name: _____

Signature: _____

Address: _____

Date: _____

Telephone: _____

E-Mail Address: _____

*****ATTENTION VENDORS*****

Have you registered for the Kanawha County Commission Automatic Vendor E-Mail Notification System for bid specifications? Register by visiting our website
@ www.kanawhacounty.com/purchasing/alerts.

SPECIFICATIONS

COUNTY COMMISSION OF KANAWHA COUNTY CHARLESTON, WEST VIRGINIA

ITEM: Firefighting Turnout Gear for the Kanawha County Commission Office of Emergency Services

LOCATION: Kanawha County Commission
Office of Emergency Services
407 Virginia Street, East
Charleston, WV 25301

CONTACT: Jerie Whitehead
Purchasing Director
Kanawha County Commission
407 Virginia St., East
P.O. Box 3627
Charleston, WV 25336
Telephone 304- 357-0115

C.W. Sigmon
Kanawha County Office of Emergency
Services
407 Virginia Street, East
Charleston, WV 25301
Telephone 304-357-0101

BID OPENING: Bids must be received in a sealed envelope, with the date and time of the bid opening on the outside of the envelope, on or before Monday, December 10, 2012, at 11:00 a.m., in the Kanawha County Commission Purchasing Office, 407 Virginia Street, East, Third Floor, Room 229, Charleston, West Virginia 25301 (P.O. Box 3627, Charleston, WV 25336). *Faxed bids will not be accepted.*

SPECIFICATIONS: The following specifications are intended to describe Firefighting Turnout Gear for the Kanawha County Commission Office of Emergency Services and the details contained in these specifications are not intended to exclude any vendor from bidding, but are offered as a means of describing the needs of the Kanawha County Commission OES. All specifications are minimum requirements.

Kanawha County Commission, WV Protective Clothing Specifications

SCOPE: The purpose of the clothing is to provide protection during structural fire fighting operations where there is a threat of fire or when certain physical hazards are likely to be encountered, such as during non-fire-related rescue operations, emergency medical operations, and victim extrication. The bid amounts are to be made available to all fire departments located within Kanawha County, West Virginia for one-year from the date of the bid opening.

COMPLIANT

EQUIVALENT

BID AMOUNTS: Please attach a separate sheet with the bid amounts for each item specified below.

STANDARDS: All garments produced shall meet or exceed the criteria set forth in the current edition of NFPA 1971 PROTECTIVE CLOTHING FOR STRUCTURAL FIRE FIGHTING, FED-OSHA CFR 1910, Subpart L, OSHA 29 CFR Part 1910.1030 and/or the requirements of CAL-OSHA title 8, Article 10.1, Para. 3406.

All components and composites used in the construction of garments shall be third party tested, certified and listed for compliance to NFPA 1971. The label of the third party tester shall denote

certification.

COMPLIANT

EQUIVALENT

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

COMPLIANT

EQUIVALENT

COMPOSITE PERFORMANCE: The garment composite, consisting of the outer shell, moisture barrier and thermal liner, shall provide a Thermal Protective Performance (TPP) of not less than 40 when tested in accordance with NFPA 1971 standard.

COMPLIANT

EQUIVALENT

The garment composite, consisting of outer shell, moisture barrier and thermal liner, shall provide a Total Heat Loss (THL) of not less than 249 when tested in accordance with NFPA 1971 standard.

COMPLIANT

EQUIVALENT

The Heat Transfer Index rating shall be a minimum of 25 seconds for the shoulder when measured at 2 psi (pound per square inch) and a minimum of 25 seconds for the knee when measured at 8 psi.

COMPLIANT

EQUIVALENT

OUTER SHELL MATERIAL: The outer shell shall be constructed of **ADVANCE®**, 7.0 oz./sq. yd. 60% KEVLAR®/40% NOMEX® III ripstop weave with water/stain repellent finish. Color shall be tan, yellow, navy, black, or gold.

COMPLIANT

EQUIVALENT

MOISTURE BARRIER MATERIAL: The moisture barrier shall consist of a nonwoven aramid substrate laminated to a lightweight breathable, Gore RT7100™ PTFE, membrane; weighing 4.6 oz./sq. yd.

COMPLIANT

EQUIVALENT

THERMAL LINER MATERIAL: The thermal liner shall consist of 3.0+ oz./sq. yd. NOMEX® Chambray face cloth quilted to virgin 50% para-aramid/50% meta aramid batting weighing approximately 3.75 oz./sq. yd. (Total weight +/-6.75 oz./sq. yd)

COMPLIANT

EQUIVALENT

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 inch minimum bar tack.

COMPLIANT

EQUIVALENT

REFLECTIVE TRIM: All trim shall be sewn with four rows lockstitch 301, minimum (6) stitches/inch for most secure trim attachment.

All trim shall be 3" Ventilated Scotchlite™ II (triple trim) of lime/yellow or red/orange. Coat trim shall be applied as follows:

One 3" strip shall be set full circumference at the bottom sweep of the outer shell; One 3" strip shall be set around each sleeve within 2" above the cuff; One 3" strip shall be set around each sleeve just above the elbow; One 3" strip shall be set full circumference at the chest.

Pant trims shall be applied as follows: One strip set full circumference around the bottom of the cuff approximately 3" from the bottom cuff.

COMPLIANT

EQUIVALENT

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

COMPLIANT

EQUIVALENT

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.

Do Not Remove This Label

THIS STRUCTURAL FIREFIGHTING PROTECTIVE GARMENT MEETS THE GARMENT REQUIREMENTS OF NFPA 1971, 2007 EDITION

MADE IN THE U.S.A.

USER INFORMATION GUIDE: Each garment shall include a *User Information Guide* with information required by NFPA 1971. 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.

Interface issues.

(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.

(h) Drag Rescue Device (DRD)

Use, inspection, maintenance, cleaning and retirement of the DRD.

COMPLIANT

EQUIVALENT

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

COMPLIANT

EQUIVALENT

COAT CONSTRUCTION: The coat shell shall be a 3-panel construction in all layers with an inverted pleat on each side where front and back body panel pieces meet. Each pleat shall begin at the back of each shoulder and shall extend vertically down the side of the coat. A combination moisture barrier/thermal liner shall include a corresponding 1" inward dynamic fold approximately 1.5" from each sleeve seam at the shoulder. This fold shall provide for coat expansion when extending arms forward and shall interface with the inverted pleats of the outer shell to maximize mobility and function of the outer shell and thermal liner. The coat shell and moisture barrier/thermal liner shall be oversized to assure proper better fit, longer wear and greater comfort. When measured at the center of the back from the collar seam to the hem bottom, the coat shall measure 32", 35" in length. (Female models 29", 32" in length.) Sleeves shall be of full length and of shoulder insert, 2-panel type design.

COMPLIANT

EQUIVALENT

MOISTURE BARRIER/THERMAL LINER CONSTRUCTION: Design shall be compatible with the outer shell so that the liner does not buckle, pull, or otherwise 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 moisture barrier/thermal liner shall be secured to 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.

The liner shall have one 8.5" x 8.5" internal pocket which shall be made of black outer shell material. The liner pocket shall be located on the left side of coat liner.

Quilt Thermal Liner Construction: 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" from the cuffs and 3" from the hem.

COMPLIANT

EQUIVALENT

MOISTURE BARRIER/THERMAL LINER ATTACHMENT:

Completely Removable: 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 brass zipper down each front facing, hook and loop along the neck to interface with collar as well as hook and loop and one snap at each sleeve end.

COMPLIANT

EQUIVALENT

COAT LINER INSPECTION SYSTEM: There shall be a 10" opening located on the coat liner system. 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 one piece 1" x 9" FR loop sewn to the back side of the liner system with a piece of 1" x 9" FR hook sewn to the inside of the outer shell to ensure proper alignment when installing the liner system into the outer shell. This Liner Inspection System is completely hidden when the liner is properly installed into the outer shell.

COMPLIANT

EQUIVALENT

COLLAR: The 3" split collar shall consist of two piece construction shaped for comfort. The collar shall be configured such that when the collar is raised it shall remain standing while providing continuous thermal and moisture protection around the neck and face. To ensure this protection, the two layers of outer shell collar shall be fully lined with a layer of CROSSTECH® Black. The shell collar shall provide proper interface with the liner to insure no moisture penetration through the collar seam to the inside of coat. The shell collar shall have two pieces ¾" hook along top edge for liner attachment.

The liner collar shall be a layer of self material and a layer of CROSSTECH® Black. The design shall be compatible with the outer shell so that the liner does not buckle, pull, or otherwise restrict body motion. The left and right fronts of the liner collar shall be attached to the facings at the front closure of the outer shell. The neck of the liner collar 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. A 4" wide CROSSTECH® Black and 1.5" self-material extension shall be sewn the full length of the neck with two pieces of 1" loop for attachment to shell collar. The self material extension shall overlap the shell collar to prevent exposure of the hook and loop. Collar closure shall be provided by FR hook and loop 1.5" x 4", with hook portion sewn on right side of collar, and loop portion sewn on left, set horizontal. The collar shall be attached to the liner facing using ¾" hook. Collar shall be of such design so as not to interfere with SCBA face masks, or helmet.

COMPLIANT

EQUIVALENT

DRAG RESCUE DEVICE (DRD): The fire Fighter Recovery Harness™ shall be constructed of a one and one-half inch wide KEVLAR® strap that shall be installed between the outer shell and the thermal liner. This harness shall have a hand loop (16" in circumference) that exits the outer shell through a 2" polymer coated aramid reinforced slot on the back of the coat just below the collar

and is held in place by means of a piece of 1.5" x 2" loop on the strap and a piece of 1" x 3.5" loop attached to the outer shell. This strap is then secured under a 2.5" x 4.25" flap that is sewn in at the neck/collar area. One piece of 1" x 3.5" hook shall be set horizontally on shell to align with one piece of 1"x3.5" loop set horizontally to the underside of the flap. The harness is also held in proper alignment by means of a piece of 2" x 2" loop placed on the inside of the outer shell underneath the chest trim that corresponds to a piece of 1.5" x 2" hook located on the harness. Two 1" x 3.5" self-fabric straps with 1" x 2" hook on one end and 1"x2" loop on other end shall be set inside the coat in the shoulder cap area to keep straps in proper position for use.

Fire Fighter Recovery Harness™ provides mechanical leverage for dragging a downed and incapacitated structural firefighter from a life-threatening environment. The design of the harness enables the rescuer to drag the downed firefighter in line with the axis of the firefighter's skeletal frame, in order to decrease the risk of further injury.

COMPLIANT

EQUIVALENT

THERMAL REINFORCED YOKE: A layer of Semper Dri™ (3.0 oz./sq. yd. Teflon® treated Chambray (NOMEX® spun) face cloth quilted to one layer E-89™ spunlace aramid 85%NOMEX®/15% KEVLAR® weighing approximately 2.3 oz./sq. yd. with a Teflon® finish and one layer of aperture (11-13 apertures/sq.inch) E-89™ spunlace aramid 85% NOMEX®15% KEVELAR® weighing approximately 1.5 oz./sq. yd. with a Teflon® finish (Total weight +/- 6.8 oz./sq. yd.)) 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 e sewn to the inside of the upper back portion of the thermal liner across the upper back from the back shoulder and collar seams 7" down, over the tops of shoulders and down the front approximately 4" ending at the armhole.

COMPLIANT

EQUIVALENT

SHOULDER CAPS: A 4" wide area at the top of the shoulders extending 6" from the collar seam shall be capped with an additional layer of self-fabric material for abrasion resistance and thermal protection.

COMPLIANT

EQUIVALENT

BELLOWS UNDERARMS: 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 football shape not less than 8" wide by not less than 15" long sewn into each of the coats fabric layers by two-needle construction. 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.

COMPLIANT

EQUIVALENT

FREEDON 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 shortened football shape, 6" wide in the middle and 3" wide at the seams. The insert shall consist

of self-fabric material for abrasion resistance and thermal protection.

COMPLIANT

EQUIVALENT

SLEEVE WELL/WRISTLET MOUNTING: A layer of Semper Dri™ (3.0 oz./sq. yd. Teflon® treated Chambray (NOMEX® spun) face cloth quilted to one layer E-89™ spunlace aramid 85%NOMEX®/15% KEVLAR® weighing approximately 1.5 oz./sq. yd. with a Teflon® finish. (Total weight +/-6.5 oz./sq. yd)). One layer of breathable CROSSTECH® Black (Type 2F) moisture barrier leader shall be sewn no more than 1" back from the combination liner sleeve end to form a sleeve well. One male snap and one .75" wide strip of FR loop shall be sewn full circumference to the end of the thermal liner/CROSSTECH® Black (Type 2F) moisture barrier

leader to help secure the combination liner to the outer shell. This sleeve well shall prevent water and hazardous materials from entering the sleeve when arms are in a raised position.

COMPLIANT

EQUIVALENT

WRISTLETS: An internal wristlet shall consist of a 2-ply KEVLAR® Spandex knit not less than 8" in length and shall be completely over the palm with a thumbhole to prevent the wristlets from sliding back. Wristlets shall be double stitched and bound to the moisture barrier/thermal liner providing extended thermal and slash protection.

COMPLIANT

EQUIVALENT

CUFFS: The cuff of the sleeve shall be reinforced with a binding of self-fabric material not less than 3" in total width for abrasion resistance and thermal protection. At least 2" of the cuff reinforcement shall extend down the interior of the outer shell sleeve with a .75" wide strip of FR hook sewn full circumference to the topside of the cuff reinforcement. For added safety, one female snap fastener shall be set in the hook fastener to assist in attaching outer shell to moisture barrier/thermal liner.

COMPLIANT

EQUIVALENT

THERMAL FRONT PANEL CONSTRUCTION: There shall be continuous thermal and moisture protection around the entire torso including the storm flap. To ensure this protection, as well as reduce potential for wicking moisture to inside of liner, both right and left inside front facings of the coat outer shell shall incorporate outer shell fabric and Gore RT7100™ PTFE moisture barrier, extending from collar to hem.

COMPLIANT

EQUIVALENT

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

COMPLIANT

EQUIVALENT

STORM FLAP: A storm flap measuring not less than 3" wide, nor less than 22" in length shall be set on the outside of the right side of the coat opening for maximum thermal protection and clear drainage. The inner lining of the storm flap shall be Gore RT7100™ PTFE moisture barrier

meeting all requirements for moisture barriers sandwiched between two layers of outer shell fabric.

COMPLIANT

EQUIVALENT

FRONT/STORM FLAP CLOSURES: 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. The storm flap closure shall consist of a 1.5" wide FR hook and loop attachments with FR hook fastener sewn on the left front of the coat, and corresponding FR loop fastener sewn on the inner side of the outer storm flap. The hook and loop closure shall extend the full length of the outer storm flap eliminating all exposed frontal hardware.

COMPLIANT

EQUIVALENT

HANDWARMER POCKETS: There shall be a 9" wide x 9" high combination semi-bellow and handwarmer pockets that expand by means of side and bottom gussets to a thickness of 2" in back only and 0" in front. These pockets shall be set at the bottom of the coat hem and three inch lime/yellow Scotchlite II reflective trim sewn with four rows of double needle lockstitch shall be extended across the bottom of each pocket aligning with the trim at the coat hem. There shall be a 6" opening on the rear side of the bellow of the pocket. Each pocket shall be lined inside with Semper Dri™ (3.0 oz./sq. yd. Teflon® treated Chambray (NOMEX® spun) face cloth quilted to one layer E-89™ spunlace aramid 85%NOMAX®.15% KEVLAR® weighing approximately 1.5 oz./sq. yd. with a Teflon finish and one layer of apertured (11-13 apertures/sq. inch) E-89™ spunlace aramid 85% NOMEX®/15% KEVLAR® weighing approximately 1.5oz./sq. yd. with a Teflon® finish. (Total weight +/-6.5 oz./sq. yd)) and have a KEVLAR® twill backer. Pockets and flaps shall be set with stitch 301, seam Ssb-2 with each corner of pocket opening and top corners of flap shall measure 10" wide by 3" high in front and 5" inch high in rear. Each flap shall incorporate a 1" by 2" polymer coated aramid pull-tab for easy opening. The corner under this tab shall be reinforced with two layers of Lite-N-Dri for stability. A hook and loop closure system shall be set with two pieces of 1.5" x 3" loop fastener set horizontally on the outside edge of the pocket opening with corresponding two pieces of 1.5"x3" hook fastener set vertically on the underside of the flap.

COMPLIANT

EQUIVALENT

RADIO POCKET: One 3.5" wide x 9" deep full bellows radio pocket that expands by means of side and front gussets to a thickness of 2" in front and back shall be located on the left chest. Pocket and flap shall be set with stitch 301, seam Ssb-2 with the top and bottom pocket corners and top corners of flap reinforced with a minimum 42-stitch bar tack. A brass eyelet shall provide drainage of moisture. Pocket flap shall be 4.5"x5". Pocket shall be fully lined all 3 sides inside pocket with ploycotton lining. Pocket flap shall close to the pocket to using 1 piece of 1"x2" loop on pocket horizontally and 1 piece of 1"x2" hook on flap vertically. Three inch lime/yellow Scotchlite II (triple trim) sewn with four rows double needle lockstitch shall be extended across bottom of pocket aligning with the chest trim.

COMPLIANT

EQUIVALENT

SUGGESTED OPOTIONS:

LETTERING AND LETTER PATCHES: There shall be one 4"x18" 1-layer self-fabric one-line letter patch sewn to the yoke. There shall be 3" lime yellow Scotchlite letters, spelling the department name or initials sewn on.

There shall be one 4"x18" 1-layer self-fabric one-line letter patch sewn 1" above the hem trim. There shall be 3" lime yellow Scotchlite letters, spelling the firefighter last name sewn on (2" letters will be used for longer names).

COMPLIANT

EQUIVALENT

MIC TABS: There shall be a 2"x5" triple-layer self-fabric mic tab sewn to the left chest above the radio pocket.

There shall be a 2"x5" triple-layer self-fabric mic tab sewn to the right chest 3.5" above the flashlight strap.

COMPLIANT

EQUIVALENT

FLASHLIGHT STRAP: There shall be a 1"x10" two layer self-fabric flashlight strap X-Stitched to right chest above the chest trim with one piece 1x3" hook on one end and one piece 1x3" loop on the opposite end.

COMPLIANT

EQUIVALENT

Pant

PANT CONSTRUCTION: The low-rise waist pant is designed to be worn with any 32" or longer coat. The outer shell shall be of (4) piece construction – for best proportional fit and greater mobility. There has been extra room added in the seat area to assure proper fit and insure maximum mobility without restriction.

The pant inseam shall incorporate a comfort/mobility design in all layers. The pant insert crotch pieces in the pant design distributes the crotch seams to help alleviate stress. This design also provides a more comfortable fit and increased mobility while decreasing bunching of materials.

COMPLIANT

EQUIVALENT

MOISTURE BARRIER/THERMAL LINER CONSTRUCTION: Design shall be compatible with the outer shell so that the liner does not buckle, pull, or otherwise restrict body motion. To deter the wicking of moisture up the thermal liner leg the bottom nine inches of each thermal leg shall be constructed of Semper Dri™ (3.0 oz./sq. yd. Teflon® treated Chambray (NOMEX® spun) face cloth quilted to one layer E-89™ spunlace aramid 85%NOMAX®.15% KEVLAR® weighing approximately 1.5 oz./sq. yd. with a Teflon finish (Total weight +/-6.5 oz./sq. yd)). The waist of the moisture barrier/thermal liner shall be secured to the waist of the outer shell such that when donning the pant a leg may not be accidentally caught between the outer shell and its inner linings along the waist and between the legs of the pant. For added thermal protection in the knee, an additional layer of 1/8" thick, fire retardant closed-cell foam shall be positioned between the moisture barrier and thermal liner.

Quilt Thermal Liner Construction: 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. The moisture barrier/thermal liner shall finish no more than 3" from the cuffs.

COMPLIANT

EQUIVALENT

MOISTURE BARRIER/THERMAL LINER ATTACHMENT: The moisture barrier/thermal liner shall be completely detachable from the outer shell for ease of cleaning by using snaps. Eight

evenly spaced snaps shall secure the liner to the inner waistband; two snaps shall be set in leather leg tabs at each leg end.

COMPLIANT

EQUIVALENT

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 2.5" wide at the waistband. The bottom of the fly shall be reinforced with one 42-stitch bartack.

Pant closure shall be provided by #9 thermoplastic zipper. The storm fly shall be held closed along its length by means of hook and loop fastener closure 1.5" minimum width, along the leading edge for a distance of not less than 6" from the bottom of the fly closure to the waist area for proper alignment and secure closure. Additionally, one snap shall be positioned at the inside top of the fly.

The storm fly shall be outer shell material, lined with a 3.5" strip of CROSSTECH® Black (Type 2F) moisture barrier material to prevent wicking.

COMPLIANT

EQUIVALENT

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 ¾" wide x 7" long hook fastener shall be sewn to the moisture barrier/thermal liner to engage corresponding loop fastener on the underside of the outside storm fly.

COMPLIANT

EQUIVALENT

WAISTBAND: The waist of the pants shall be reinforced on the inside with two-ply of outer shell 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.

Eight suspender buttons shall be appropriately spaced around the waistband to accommodate the use of suspenders.

COMPLIANT

EQUIVALENT

EXTERNAL TAKE-UPS: 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 5" in length, folded in half to form a loop, and shall be affixed to the side of the pant by means of two bar tacks spaced 2" apart. The loop shall face toward the back and hold a nickel plated 1" metal loop. The back strap shall be 1" wide x 9" in length of double layered outer shell material, and shall be affixed to the rear of the back of front body panels by means of three bar tacks, and shall be positioned to allow the loose end to thread through the metal loop. The metal loop shall allow for adjustment and shall firmly hold the take-up strap in the desired position. Hook and loop attachments shall be used to secure the loose end of each take-up strap to its respective component. 1"x4.5" loop fastener shall be set horizontally on each back take-up strap. 1"x3" hook fastener shall be set at the end of the take-up strap and shall be positioned to engage the corresponding loop fastener.

COMPLIANT

EQUIVALENT

KNEE REINFORCEMENT: Two 10"x12" knee patches consisting of (grey, gold, or black) polymer-coated aramid material shall be set one on each knee for increased durability and cushioning.

KNEE PADDING: In addition to reinforcement, knees shall be padded using one layer of uninterrupted 1/8" thick, fire retardant closed-cell foam. The reinforcement material shall be oriented between the outer shell and knee insert reinforcement.

COMPLIANT

EQUIVALENT

CUFFS: The cuff area of the pant shall be reinforced with a binding of (grey, gold, or black) polymer-coated aramid material not less than 2" in total width for greater strength, abrasion resistance, and thermal protection.

COMPLIANT

EQUIVALENT

FULL BELLOWS POCKETS: One 10" wide x 10" deep outside full bellows pocket that expands by means of side and bottom gussets to a thickness of 2" in front and back shall be located on each thigh. Each pocket shall be fully lined three sides with KEVLAR® twill. The pocket and flap shall be set with stitch 301, seam Ssb-2 with the top and bottom pocket corners and top corners of flap reinforced with bar tacks for additional strength. Brass eyelets shall provide drainage of moisture. Pocket flaps shall be 11"x5". A hook and loop fastener closure system shall be set with 1.5"x10" loop fastener horizontally on the pocket and two pieces of 1.5"x2.75" hook fastener set vertically on the underside of the flap.

SUGGESTED OPTIONS:

DEALER ADDED BELT LOOPS FOR GEMTOR HARNESS: There shall be 7 self-fabric belt loops, each made using 2 separate 1"x3" straps that close with 1"x2" hook & loop. Five loops are bartacked even at waist (one each on fly, center back, each side and front) and two at crotch.

QUICK ADJUST H-BACK SUSPENDERS WITH TRADITIONAL ATTACHMENTS MODEL NO SB 342

SCOPE

A highly engineered *42" black suspender designed for greater range of mobility and reduced stress allowing for eight points of attachment to a traditional or contoured waist bunker pant with traditional suspender buttons.

DESIGN

Two 8" front pull straps shall be constructed as follows: 2" wide non-elastic polyester webbing shall be fed through 2" metal loops and secured with a two-needle lock-stitch at one end. A black military finish steel double dee ring shall be fed through the webbing. The other end of the webbing shall be fed through a 2" wide thermo-plastic dee ring and secured with a two-needle lock-stitch. The dee ring shall function as a pull strap for easily adjusting the suspenders for proper fit.

Two 18" shoulder straps shall be constructed as follows: 2" wide non-elastic polyester webbing shall be fed through the top half of the steel double dee ring and secured with a two-needle lock-stitch. Two 7" back straps made of 2" wide elastic webbing shall be joined with a 2" overlap at the end of each shoulder strap with a single-needle lock stitch. The end of each back strap shall be fed through a 2" metal loop and secured with a two-needle stitch.

One 2 ½" horizontal back strap made of 2" wide elastic webbing shall be set perpendicular between the two shoulder straps and back straps at the point of overlap, secured with a single-needle lock-stitch, and reinforced with a two-needle lock-stitch "X" through the joining straps .

Four pieces of 2" wide elastic webbing shall feed through the 2" metal loops at each end of the front and back straps and be secured 2" buttonhole peerless loops constructed of .080 diameter wire with zinc plate finish. This will allow for eight points of attachment. Each piece of webbing shall be long enough so that when fed through the 2" metal loop and folded over, shall measure at least 2" 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.

SHOULDER PADS

Each shoulder strap shall be encapsulated with a 2.25" wide x 13" long sheath of padding constructed of 1/8" thick fire-retardant closed-cell foam laminated to Nomex pajama check substrate. Shoulder pads shall start 1" up from the cross point of the horizontal back strap ("H" cross) and be bartacked at each end so they do not slide forward. Each shoulder pad shall have an embroidered Lion Head Logo.

LIFETIME WARRANTY

All products shall be warranted against defects in materials and workmanship for the useful life of the product.

COUNTRY OF ORIGIN

The Garments shall be manufactured in the United States of America.

OUTER SHELL SHALL BE AVAILABLE IN THE FOLLOWING COLORS:

Black
Yellow
Navy
Khaki

STRUCTURAL FIRE FIGHTING GLOVES

Gloves must meet current edition of NFPA 2007 for Firefighting gloves. Must be available in medium, large and extra large

COMPLIANT

EQUIVALENT

STRUCTURAL FIREFIGHTING PROTECTIVE HOODS

Two ply Long NFPA Nomex Hoods

COMPLIANT

EQUIVALENT

FIRE HELMETS VARIOUS STYLES

Must meet current NFPA standards for structural firefighting helmets

Traditional style fiberglass fire helmet with 4 inch face shield, ratchet suspension
Traditional style fiberglass fire helmet with E-Z Flip shield, ratchet suspension

Modern style helmet with 4 inch face shield; ratchet suspension

Must have the option of the following colors; red, black, yellow, white

FIRE BOOTS VARIOUS STYLES

Must meet current NFPA standards for structural firefighting boots

Leather pull on fire boots, 14 inch height

Rubber shoe fit insulated fire boots

Standard rubber fire boots

Hybrid bunker boot

Must be available in sizes 7-13 14,15 width M,W,XW.

Fire Gloves

Fire Glove with knit wrist

Fire Glove with gauntlet

Sizes small to X Large

Fire Hoods

19 inch one size Nomex

REQUIREMENTS:

Real Estate and Personal Property Taxes: No bid will be accepted or opened on any County contract if the vendor is listed on the last published list of delinquent real or personal property taxes in Kanawha County; however, the Commission will accept bids by vendors who provide satisfactory proof of payment of current taxes or a certification from the Sheriff that no taxes are due prior to submission of said bid.

Required Forms: Successful vendor shall complete and submit, or have on file with the County, a Vendor Registration and Disclosure Statement Form, No Debt Affidavit and IRS Form W9.

Once bids are unsealed, all bid documents become public record. The Kanawha County Commission reserves the right to reject any and/or all bids and to waive any informality in bidding.