



February 10, 2020

INVITATION TO BID

Sealed bids will be received in the Council Chambers, City Hall 224 East Bryan Street, Douglas, Georgia, up to **March 23, 2020 @ 2:30 P.M.**, at which time the bids will be publicly opened and read for the purchase of the following:

"Fire Department Turn-Out Gear"

Specifications are available and on file at the office of the City Clerk, City Hall, Douglas, Georgia.

The City of Douglas reserves the right to accept the lowest, most acceptable bid and reserves the right to accept or reject any or all bids. No late bids will be accepted.

The City of Douglas reserves the right to waive any technicalities or irregularities so that an award can be made in the best interest of the City.

Bids are to be **F.O.B. Destination** 123 West Cherry Street, Douglas, Georgia, 31533.

The City of Douglas is an equal opportunity employer, including nondiscrimination in employment of the disabled.

For further information concerning this bid contact Stanley E. Merritt, the City of Douglas Purchasing Agent, at (912) 389-3463 or smerritt@cityofdouglas.com. Any technical questions please contact Bryson Lott at 912-327-1281 or blott@cityofdouglas.com.

To obtain the complete Invitation to Bid, please go to our website, www.cityofdouglas.com. Scroll down to "Invitation to Bid" in left hand column click here for more information. Once you click "Invitation to Bid" it will open all formal bids the City has outstanding. Scroll down to "**Fire Department Turn-Out Gear**" request and click the PDF attachment under it. This will contain the complete Invitation to Bid. Print, complete and submit as directed. Should you have any problems opening the attachment, please contact Nikki Thompson at 912-389-3453.

Note: Three (3) copies of your Bid should be included in your package.



Mayor

Tony L. Paulk

Mayor Pro Tem

Cindy McNeill

Commissioners

- Kentaiwon Durham
- Mike Gowen
- Edwin Taylor
- Olivia Pearson
- Bob Moore

City Manager

Charles Davis

City of Douglas
P.O. Box 470
Douglas, GA 31534
(912) 389-3401
Fax: (912) 384-6730
www.cityofdouglas.com





GENERAL CONDITIONS OF BID

- BID OPENING:** March 23, 2020 @ 2:30 P.M.
- LOCATION:** City Hall, Council Chambers
224 East Bryan Street
Douglas, Ga. 31533
- SEALED BID:** All bids shall be sealed in an Envelope and plainly marked:

"Fire Department Turn-Out Gear"
- MAIL BID TO:** City Clerk's Office
Attn: City Clerk
City of Douglas
224 East Bryan Street
Douglas, Ga. 31533
- BID FORMS:** All bids shall be submitted upon forms provided by the City of Douglas.
- RIGHT TO REFUSAL:** The City of Douglas reserves the right to accept or reject any or all bids submitted at its discretion.
- ADDITIONAL INFORMATION:** May be obtained by writing to:

City of Douglas Purchasing Dept.
P.O. Box 470
Douglas, Ga. 31534
or by contacting
Stanley E. Merritt, Purchasing Agent
(912) 389-3463

Sealed bids must be clearly marked on the outside envelope, as noted above, **"Fire Department Turn-Out Gear"** to prevent accidental opening prior to formal bid opening thereby resulting in an unacceptable bid.

FAILURE TO RESPOND WILL BE GROUNDS FOR REMOVAL FROM BID LIST.

Specifications for LION® – NO SUB Turn-out Gear

This bid will have an option for three (3) one-year extensions

Protective Clothing Specification **Meets Requirements?**

Scope **YES / NO**

The Purpose of the clothing is to provide protection during structural firefighting 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.

Standard **YES / NO**

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

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

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

USER GUIDE INFORMATION **YES / NO**

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 o 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.

Tracking Label System

YES / NO

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

- 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

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

Sizes

YES / NO

Coats shall be made available in even chest sizes with corresponding sleeve lengths available in short, regular, and long. Pants sizes shall be made available in even waist sizes with inseam lengths available in extra short, short, regular, and long. Male and female sizing available.

Warranty

YES / NO

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

Composite Performance

YES / NO

The garment composite, consisting of the outer shell, moisture barrier and thermal liner,

shall provide a Thermal Protective Performance (TPP) of not less than 38 when tested in accordance with NFPA 1971 standard.

The garment composite, consisting of the outer shell, moisture barrier, and thermal liner, shall provide a Total Heat Loss (THL) of not less than 248 when tested in accordance with NFPA 1971 standard.

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

Stress Points

YES / NO

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.

Labeling

YES / NO

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 GARMENT MEETS THE GARMENT REQUIREMENTS OF NFPA 1971, STANDARD ON PROTECTIVE ENSEMBLE FOR STRUCTURAL FIRE FIGHTING, 2013 EDITION.

MADE IN THE U.S.A.

Packaging

YES / NO

Each Coat and Pant shall be packaged in a dark plastic bag in order to provide protection during shipping and prior to first use.

LION Fire Academy

Online training shall be available meeting NFPA 1500 training requirements on the safe use of the (garments, helmet, boots, gloves, and hood). This online training shall include:

- Personal Responsibility of the Individual Fire
- Purpose and Limitations
- Structural PPE Construction, Features, and Functions
- Routine Inspection
- Donning and Doffing
- Proper Fit and Overlap
- Using Your PPE Safely

- How Fire Fighting Affects the PPE
- Routine Cleaning of PPE
- Assembly and Disassembly of PPE
- Storage
- Useful Life and Retirement of PPE

Additionally online training satisfying NFPA 1851 training requirements on advanced inspection, advanced cleaning and basic repairs (turnouts and helmets) shall be available.

Acquisition Regulation

YES / NO

In the past seven-year period has your firm, or any of its principals, been convicted or had a civil judgment rendered against it for: commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, state or local) contract or subcontract; violation of Federal or State antitrust statutes relating to the submission of offers; or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, tax evasion, violating Federal criminal tax laws, or receiving stolen property?

Detailed Description / Specification

Meets Requirements?

LION® Super-Deluxe™ Coat

Coat Model / Design

YES / NO

COAT CONSTRUCTION: The coat shell shall be of 3-panel construction in all layers with an inverted pleat on each side where back 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 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 chest fit and insure maximum mobility without restriction of the arms and shoulders. Bi-swing construction shall provide better fit, longer wear and greater comfort. Sleeves shall be of full length and of shoulder insert, 2-panel type design.

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 coat's 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.

FREEDOM 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 a shortened football shape, 6" wide in the middle and 3" wide at the seams.

Coat Model / Design

YES / NO

When measured at the center of the back from the collar seam to the hem bottom, the coat shall measure 29", 30.5", 32", 33.5" or 35" long for male; 29" or 32" long for female.

Drag Rescue Device

YES / NO

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" hook on the strap and a piece of 1" x 2" loop attached to the outer shell. This strap is then secured under a 2.25" x 5.25" flap that is sewn in at the neck /collar area. Two pieces 1" x 2" loop shall be set vertically on shell to align with two pieces of 1" x 2" hook set vertically to the underside of the flap. The harness is also held in proper alignment by means of a 2" x 2" piece of loop placed on the inside of the outer shell underneath the chest trim that corresponds to a piece of 1.5"x 2" hook located on the harness. Two 1" x 3.5" self-fabric straps with 1" x 2" hook on one end and 1" x 2" loop on other end shall be set to coat in the shoulder cap area to keep straps in proper position for use. The loop handle shall have a silver retro-reflective LION logo patch.

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.

Coat Outer Shell Material

YES / NO

The outer shell shall be constructed of +/- 7.0 oz./sq. yd. 70% "PBI Dominant" PBI®/KEVLAR® spun yarns/30% 600 denier KEVLAR® filament in a twill weave with extremely durable FPE water resistant Teflon® FPE alloy finish. Color shall be natural (gold).

Coat Liner & Moisture Barrier**YES / NO**

THERMAL LINER: The thermal liner shall be comprised of Glide Ice™ high-lubricity, stress reducing, filament/spun face cloth weighing 3.6 oz./sq./yd. The Kevlar Nomex filament yarns shall represent no less than 60% of the face cloth's composition and shall be positioned in the warp direction of the weave in order to optimize their slippery characteristics on the face. Spun yarns comprised of 30% Nomex and 10% Lenzing FR spun yarns with superior wicking characteristics shall be used to promote moisture management within the garment. The Glide Ice™ face cloth shall be quilted to one layer spunlace aramid (85%NOMEX®/15% KEVLAR®) weighing approximately 2.3 oz./sq. yd. and one layer of aperture (11-13 apertures/sq. inch) spunlace aramid (85% NOMEX®/ 15% KEVLAR®) weighing approximately 1.5 oz./sq. yd. both layers shall be treated with a Teflon® finish to promote minimal moisture storage in the garment as well as promote rapid drying (Total weight +/- 7.3 oz./sq. yd.).

MOISTURE BARRIER: E-89 Nonwoven substrate laminated to a lightweight breathable, PTFE membrane; weighing 5.0 oz./sq. yd.

The liner shall have one 8.5" x 9" 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.

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 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.

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

Reflective Trim**YES / NO**

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

Ventilated Trim shall be of 3" Scotchlite II (triple trim) of lime/yellow perforated with 0.08 mm holes (114 per square inch) to provide a conduit for the release of vapor that can occur when moisture is heated and the trim compressed.

Coat trim shall be applied as follows: New York Pattern: One 3" strip shall be set full circumference at the bottom sweep of the outer shell; one 3" strip shall be set around each sleeve approximately 2" above the cuff; one 3" strip shall be set around each sleeve just above the elbow; one 3" strip shall be set full circumference at the chest.

Coat Collar

YES / NO

MOISTURE BARRIER/THERMAL LINER CONSTRUCTION: The liner collar shall be a layer of self-material and a layer of STEDAIR 4000. 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 STEDAIR 4000 and 1.75" 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 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: 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 STEDAIR 4000. 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 3/4" hook along top edge for liner attachment. The collar shall be attached to the liner facing using 3/4" hook. Collar shall be of such design so as not to interfere with SCBA face masks, or helmet.

Hanger Loop

YES / NO

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

Coat Inner Yoke Reinforcement

YES / NO

A layer of Semper Dri™ (3.0 oz./sq. yd. Teflon® treated Chambray (NOMEX® spun) face cloth quilted to two layers of NOMEX®/Kevlar® spunlace (Total weight +/- 6.0-6.8 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 be sewn to the inside of the upper back portion of the thermal liner across the upper back from the back shoulder

and collar seams 7" down, over the tops of shoulders and down the front approximately 4" ending at the armhole.

Coat Shoulder Reinforcement

YES / NO

A 4" wide area at the top of the shoulders extending 6" from the collar seam shall be capped with outer shell material for abrasion resistance and thermal protection.

Coat Elbow Reinforcement

YES / NO

The elbow shall be reinforced with black polymer coated KEVLAR® for abrasion resistance and thermal protection. In addition to reinforcement, elbows shall be padded using 1/8" thick, fire retardant closed-cell foam. The reinforcement material shall be oriented between the outer shell and elbow insert reinforcement.

Coat Cuff Reinforcement

YES / NO

The cuff of the sleeve shall be reinforced with a binding of black polymer coated aramid 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 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.

Coat Wristlets

YES / NO

WRISTLETS: An internal wristlet shall consist of a 2-ply knit of 48% NOMEX®/48% KEVLAR® and 4% Spandex for superior recovery. Wristlet to be combination of natural and bronze colors producer dyed by DuPont, and treated with an extremely durable Teflon® water resistant alloy. The wristlet shall not be less than 6" with a 5/8"x3 1/4" Nomex webbing thumb loop. Wristlets shall be double stitched and bound to the moisture barrier/thermal liner providing extended thermal and slash protection.

Coat Water Well

YES / NO

A combination Semper Dri™ 3.0 oz./sq. yd. Teflon® treated Chambray (NOMEX® spun) face cloth quilted to two layers of NOMEX®/Kevlar® spunlace (Total weight +/- 6.0-6.8 oz./sq. yd.) and one layer of breathable STEDAIR 4000 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 loop shall be sewn full circumference to the end of the thermal liner/STEDAIR 4000 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.

The combination liner sleeve ends shall be inserted into the outer shell sleeve ends by means of lining up the male snaps then attaching the loop fastener of the combination liner sleeve end with the female snap and hook fastener of the outer shell cuff. This method of combination liner attachment shall prevent any gaps from occurring between the combination liner and sleeve well during a full range of motion. The combination liner shall extend to within 1" of the sleeve ends.

Coat Closure System

YES / NO

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 STEDAIR 4000 moisture barrier, extending from collar to hem.

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**.

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 STEDAIR 4000 moisture barrier meeting all requirements for moisture barriers sandwiched between two (2) layers of outer shell fabric.

FRONT/STORM FLAP CLOSURES: The front closure shall consist of a 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 four standard snap hooks, each securely riveted with three leather reinforced rivets to the left front coat, to engage dee rings on the storm flap. Each dee ring shall be securely fastened with two leather reinforced rivets along the leading outside edge of the storm flap.

Liner Inspection System

YES / NO

There shall be an 11" opening located on the coat liner system at the center left front of the liner. This opening will provide the ability to completely invert the coat liner to properly view the integrity of the entire liner system. There shall be one piece 1" x 4" loop sewn to the back side of the liner system with a piece of 1.5" x 3" 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.

Coat Options	YES / NO
*** Accessories that will be included with the Coats; listed below, if any...	
Mic Tab	YES / NO
There shall be a 1" X 3" triple layer self-fabric mic tab attached with bar tacks on each side. Bar tacks shall be a minimum 42-stitch bartack.	
Item Location for Above	YES / NO
Shall be located as follows: on the left chest above radio pocket.	
Flashlight Strap	YES / NO
There shall be a 1x12" self-fabric strap with 1 piece 1x3" hook on one end & 1 piece 1x3" loop on opposite end, strap X-stitched to shell with 2 bartacks.	
Item Location for Above	YES / NO
Shall be located on right chest 2" above chest trim.	
Flashlight Snap-Hook	YES / NO
There shall be a 1" x 2" two-layer self-fabric 703 flashlight snap holder with 2 bartacks.	
Item Location for Above	YES / NO
Shall be located on right chest 3" above strap	
Lettering Patches	YES / NO
There shall be one 5"x18" contoured 2-layer self-fabric one-line Letter Patch attached to hang from back hem via hook & loop and upper-corner snaps.	
Sewn On Lettering	YES / NO
There shall be 3" lime yellow Scotchlite letters, sewn-on to the hanging letter patch for FF Names.	
Sewn On Lettering	YES / NO
There shall be 3" lime yellow Scotchlite letters, sewn-on across the yoke in 2-lines; to read - DOUGLAS FD	

Coat Pockets

YES / NO

Turn-Out Pockets

YES / NO

8" x 8" patch style hand warmer pocket. The pocket shall be set at the bottom of the coat hem and reflective trim shall be set on each pocket. Pocket shall be fully lined inside with Arafil thermal liner material. Pocket and flap shall be set with stitch 301, seam Ssb-2 with each corner of pocket opening and top corners of flap reinforced with bar tacks for additional strength. Drainage of moisture to be provided by brass eyelets. Each pocket shall have a 6.5" diagonal opening cut at the upper rear with corresponding diagonal pocket flaps providing full closure. Each pocket flap shall measure 2" x 7.5". A hook and loop fastener closure shall system shall be set with 1"x 2" loop fastener set horizontally on the outside edge of the pocket opening with corresponding 1"x 2" hook fastener set horizontally on the underside of the flap.

Item Location for Above

YES / NO

Shall be located on left and right of the front bottom.

Turn-Out Pockets

YES / NO

One 3.5" wide x 8" deep full bellows radio pocket that expands by means of side and front gussets to a thickness of 2" in front and back. 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 flaps shall be 4.5"x 5". Pocket shall be fully lined all 4 sides inside pocket and flap with poly-cotton lining. Pocket flap shall close to the pocket top using 1 piece of 1"x 3" loop on pocket horizontally and 1 piece of 2"x 3" hook on flap vertically. Pocket flap shall include a left-side antenna notch to accommodate an antenna.

Item Location for Above

YES / NO

Shall be located on the left side of the chest.

LION® Deluxe High-Back™ Pant

Pants Model / Design

YES / NO

PANT CONSTRUCTION: The pant shall have a low rise waist design.

EXTENDED BACK PANEL: A back panel shall be constructed of one outer layer of outer shell material, one middle layer of moisture barrier material and one inner most layer of thermal liner material identical to the rest of the pant composition. This panel shall be stitched to the perimeter of the outer shell and shall measure 12" across the top, 20" across the bottom (being graded for waist size), and extend 6" above the pant waist.

RADIAL INSEAM BAND: The pant inseam shall incorporate a comfort/mobility design in all

layers. The banded pant insert shall run continuously from the top of the mobile knee of one leg, through the crotch, to the top of the mobile knee of the opposite leg. This design eliminates crotch seams therefore eliminating crotch seam failure. This design also provides a more comfortable fit and increased mobility while decreasing bunching of materials.

FREEDOM KNEE: The knee shall incorporate a comfort/mobility design in all layers. This design shall allow for a natural bending motion of the knee. The apex of the knee shall allow for not less than a 1.5" bellows at the center. The radial seam shall provide a gusset that the knee can fall into when crawling, climbing, bending, kneeling, etc... The bottom of the mobile knee shall be placed not less than 10" from the cuff to fall anatomically correct. For added thermal protection, an additional layer of uninterrupted 1/8" thick, fire retardant closed-cell foam shall be positioned between the moisture barrier and thermal liner.

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

Pant Outer Shell Material

YES / NO

The outer shell shall be constructed of +/- 7.0 oz./sq. yd. 70% "PBI Dominant" PBI®/ KEVLAR® spun yarns/30% 600 denier KEVLAR® filament in a twill weave with extremely durable FPE water resistant Teflon® FPE alloy finish. Color shall be natural (gold).

Pant Liner & Moisture Barrier

YES / NO

THERMAL LINER: The thermal liner shall be comprised of Glide Ice™ high-lubricity, stress reducing, filament/spun face cloth weighing 3.6 oz./sq./yd. The Kevlar Nomex filament yarns shall represent no less than 60% of the face cloth's composition and shall be positioned in the warp direction of the weave in order to optimize their slippery characteristics on the face. Spun yarns comprised of 30% Nomex and 10% Lenzing FR spun yarns with superior wicking characteristics shall be used to promote moisture management within the garment. The Glide Ice™ face cloth shall be quilted to one layer spunlace aramid (85%NOMEX®/15% KEVLAR®) weighing approximately 2.3 oz./sq. yd. and one layer of aperture (11-13 apertures/sq. inch) spunlace aramid (85% NOMEX®/15% KEVLAR®) weighing approximately 1.5 oz./sq. yd. both layers shall be treated with a Teflon® finish to promote minimal moisture storage in the garment as well as promote rapid drying (Total weight +/- 7.3 oz./sq. yd.).

MOISTURE BARRIER: E-89 Nonwoven substrate laminated to a lightweight breathable, PTFE membrane; weighing 5.0 oz./sq. yd.

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.

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 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.

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

Pant Fly Closure

YES / NO

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 a 42 stitch bartack.

The storm fly shall be held closed along its length by means of a hook and loop fastener closure 1.5" minimum width, along the leading edge for a distance of not less than 6" from the bottom of the fly closure to the waist area for proper alignment and secure closure. Pant closure shall be provided by a thermoplastic zipper, and a hook and dee ring closure shall be used for quick one motion closing at the waist. The hook shall be 2.5" in length, made of a zinc non-ferrous metal alloy and weigh 1.2 oz. +/- 5%. It shall be securely fastened to the pant by means of a 5/8" wide, treated leather take up strap looped through the rear of the buckle and triple riveted to the pant shell with leather backed rivets. The dee shall be made of a non-ferrous metal alloy 2" long x 1 1/16" wide and secured by two leather backed rivets to the leading edge of fly flap.

The storm fly shall be outer shell material, lined with a 3.5" strip of STEDAIR 4000 moisture barrier material to prevent wicking.

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 3/4" wide x 9" 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.

Take Up Straps

YES / NO

There shall be two waist straps sewn and bar tacked 2 1/2" down from the top of the waistband. One strap shall be installed on the right side and one on the left side constructed out of one piece of shell material folded to two layers and sewn to form a 1/2" wide strap. Each strap shall be a minimum of 8 1/2" in length. These take-up straps

shall have a 5/8" nickel plated postman style slide buckle which shall be attached by a piece of shell material six (6) inches in length folded to form two layers. The strap is sewn to form an attachment strap approximately three (3) inches in length designed for quick take-up adjustment.

Pant Knee Reinforcement

YES / NO

The knee shall be polymer coated aramid and measure 9" across the bottom, not less than 7" on the sides and gradually increase to 12" at the center point at the apex. For added thermal protection, an additional layer of uninterrupted 1/8" thick, fire retardant closed-cell foam shall be positioned between the moisture barrier & thermal liner. For additional extended thermal protection, two layers of uninterrupted 1/8" thick, fire retardant closed-cell foam shall be also be positioned between the reinforcement layer and outer shell.

Pant Cuff Reinforcement

YES / NO

The cuff area of the pant shall be reinforced with a binding of black polymer coated aramid not less than 2" in total width for greater strength, abrasion resistance, and thermal protection. In addition a 3" x 3 1/2" piece of reinforcement material shall be sewn on the in-seam area of the pant leg above the pant cuff and below the pant trim, in order to provide extra abrasion protection. The material used on the kick shield shall match the material used on the pants cuffs.

Boot Cut

YES / NO

The back portion of the cuff will gradually curve upward from each side seam to a maximum of 2" at the center back of the pant leg to prevent wear on the back of the cuff.

Leg Tabs

YES / NO

Two gold leather leg tabs 3/4" wide x 1 3/4" long with female snaps shall be bar tacked 2" up from bottom edge on inside of the pant cuff with one on the in-seam and one on the out-seam.

Liner Inspection System

YES / NO

There shall be an opening located on the pant liner system to the right side of the waist separating the thermal barrier and moisture barrier, approximately 10" in length. This opening will provide the ability to completely invert the pant liner to properly view the integrity of the entire liner system. There shall be a piece of 1" x 3" loop sewn to the moisture barrier 3" over from beginning of opening and a corresponding piece of 1" x 3" 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.

Pant Pockets

YES / NO

Turn-Out Pockets

YES / NO

10" wide x 10" deep outside full bellows pockets that expand by means of side and bottom gussets to a thickness of 2" in front and back. Pockets shall be fully lined four sides with KEVLAR® twill & Poly-coated aramid 5" up outside on pocket. Pocket and flap shall be set with stitch 301, seam Ssb-2 with the top and bottom pocket corners and top corners of flap reinforced with bar tacks for additional strength. Drainage of moisture to be provided by brass eyelets. Pocket flaps shall be 11" x 6". A hook and loop fastener closure system shall be set with 1.5" x 8" loop fastener horizontally on the pocket and two pieces of 1.5" x 2.75" hook fastener vertically on the underside of the flap.

Turn-Out Pockets

YES / NO

10" wide x 10" deep outside full bellows pockets that expand by means of side and bottom gussets to a thickness of 2" in front and back. Pocket shall be split with a KEVLAR® twill divider. Pockets shall be reinforced with Kevlar® twill fully lined 3 sides and poly coated Aramid 5"-up on outside. 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. Pocket flaps shall be 4.5" x 5" and 6.5" x 5", lining up with the split in the pocket. A hook and loop fastener closure system shall be set with 2" x 9" loop fastener horizontally on the pocket and two pieces of 1.5" x 3" hook fastener set vertically on the underside of each flap.

Suspender Tabs

YES / NO

Four 2" wide self-material suspender tabs with 1.75x3" leather reinforcement shall be attached to waist with two on the front and two on the back. Each tab shall have two male and two female logo snaps. Each tab shall be reinforced with two bar tacks on each tab.

Suspenders

YES / NO

SCOPE

A highly engineered 42" black suspender designed for greater range of mobility and reduced stress allowing for four points of attachment, using self-fabric, leather-reinforced suspender tabs with snaps, to a V-Force™, traditional or contoured waist bunker pant. The shoulder pads shall have a one-inch wide lime/yellow Scotchlite strip located the entire length facing outward

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 lock stitch.

One 2 1/2" 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 2" wide self-fabric suspender tabs with leather reinforcement, using 2 male and 2 female logo snaps for suspender attachment, shall be required on pants for use of these suspenders. Two self-fabric suspender tabs shall be attached to the back of the pant and to the front of the pant and reinforced with two bars tack each tab. Each self-fabric tab attached to the pants shall be fed through each 2" metal loop on the suspenders.

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 bar tacked at each end so they do not slide forward. The straps shall have a one-inch wide lime/yellow Scotchlite strip located the entire length, facing outward.

BID PAGE
This is a Group Bid!
LION® – NO SUB

1. Coat Model / Design Super Deluxe™ \$ _____ x 5 = \$ _____
LION® Turnout Super-Deluxe™, Traditional Coat
With Freedom design. Fully featured coat with
Bi-Swing Back for forward mobility
- Coat Model / Design # CSTM/F
Male 29" (CSTM-29), 30.5" (CSTM-305, 32" (CSTM-32), 33.5" (CSTM-335, & 35") CSTM-35); Female 29" (CSTF-29), & 32" (CSDF-32) Super Deluxe™ Coat
- Coat inner yoke reinforcement # LYR224
(Std.) Semper Dri® front and back yokes sewn to coat thermal liners. (RM1377-059)
(Super Deluxe, Liberty)
- Coat Water Well # CLW207S
Water well: Chambray DWR 2 layer AraFlo® Nomax®/Kevlar® spun lace quilt/STEDAIR 4000 water well with ¾" loop, male snap, sew to coat liner sleeves.
- Coat Wristlets # CLW758
6" isodri wristlet sew to liner system with 5/8" x 3 ¼" nomex webbing thumbloop.
- Coat Outer Shell Material # 7oz PBI®Max Natural
PBI® Max, 7.0 oz., Natural Color
- Reflective Trim # CT204PTY
3" NYC Yellow Ventilated Triple Trim
- Drag Rescue Device # BHS020
(Std.) DRD: Firefighter Recovery Harness with 2" welt and 5.25x2.25" flap with rounded corners. 1 piece 1x2" loop for harness storage. 2 pieces 1x2" loop on shell flap closure, 2 pieces 1x2" hook on flap. 1 piece 1.5x2" hook on harness. 1 piece 2x2" loop underneath chest trim for harness storage, 1 pair 1x3.5" self-fabric straps with 1x2" hook and loop. The loop handle shall have a silver retro-reflective LION® logo patch.
- Coat Collar # CR237S
3" split self-fabric collar with STEDAIR 4000 lined. 2 pieces 1x3" hook on each end inside and 2 pieces 1" hook set ½" from center along top edge for liner attachment. 1.5x4" hook and loop for front closure.
- Collar Flashing # CLF221S
3" Self-Fabric, STEDAIR 4000 lined split collar with 2 pieces 1x3" loop on moisture barrier, 2 pieces 1" loop set ½" from center along top edge for attachment to shell. Use with CR236S & CR237S
- Coat Cuff Reinforcement # CC702-BLK
Black Polymer coated aramid cuff reinforcements
- Coat Elbow Reinforcement #BE26-BLK
Black Polymer w/Lite-N-Dri™ cushioning, Elbows Reinforcement
- Coat Shoulder Reinforcement # SC715
Self-Fabric shoulder caps
- Coat Closure System # SF269

3" Storm flap w/2 layer self-fabric & Gore STEDAIR 4000, thermoplastic zipper in, hook & dee out (zipper in, 4-701's on coats front, 4 d-rings on storm flap).

Turn-Out Pocket # HP502

(2) 8x8" Hand warmer pocket w/Arafil lined inside on pocket, 1 pc. 1x2" loop on pocket & 1 pc. 1x2" hook on flap.

Item location for above

Front bottom – Left & Right

Turn-Out Pocket # RP858

3.5x8x2" Radio pocket with poly-cotton fully lined all 4 sides inside pocket and flap, 1 pc. 1x3" loop on pocket, 1 pc. 2x3" hook on flap, antenna notch.

Item location for above

Chest Left – Notch left

Flashlight Strap # FLS573

1x12" self-fabric strap with 1 pc. 1x3" hook on one end & 1 pc. 1x3" loop on opposite end, strap X-stitched to shell, 2 tacks.

Item location for above

Right Chest 2" above chest trim – FLS510 will be 3" above

Flashlight Snap-Hook # FLS510

1x2" 2 layer self-fabric 703 flash lite snap holder with 2 bartacks

Item location for above

Right chest 3" above FLS573

Lettering Patches # LP34

5x18" contoured 2 layer self-fabric one line letter patch to be attached to hem of coat

Lettering Patch Attachment # LPV13

(For LP34): There shall be 1.5x18" hook sewn to top edge of 5x18" patch and 1.5x18" loop sewn with white thread through the trim to coat back inside at hem.

Lettering Patch Attachment # LPS6

(For LP34): 1 male snap at top corners of letter patch & 2 female logo snaps on inside of shell to align with the male snaps = 2 male & 2 female non-logo snaps.

Sewn On Lettering # LTSL3YNS

Sewn On 3" Lime/Yellow 3M™ Scotchlite™ Letters (each line) 6-12 Alpha Numeric Name Characters

Lettering # LT

Lettering shall be for FF Names

Location for Lettering

On above LP34 patch

Sewn On Lettering # LTSL3YNS

Sewn On 3" Lime/Yellow 3M™ Scotchlite™ Letters (each line) 6-12 Alpha Numeric Name Characters

Lettering # LT

Lettering to read – DOUGLAS

Location for Lettering

Arched on yoke (LINE 1 OF 2)

Sewn On Lettering # LTSL3YNS

Sewn On 3" Lime/Yellow 3M™ Scotchlite™ Letters (each line) 6-12 Alpha Numeric Name Characters

Lettering # LT

Lettering to read – FD

Location for Lettering

Across yoke (LINE 2 OF 2)

Mic Tab # MT503

1x3" triple layer self-fabric mic tab bar tacked each end.

Item location for above

Left chest above radio pocket

Hanger Loop # HL02

(Std.) 5/8" x 5 1/2" Self-fabric hanger loop

Coat Liner & Moisture Barrier #K3-Traditional

Traditional Liner, Glide™ face cloth quilted to 2.3 oz. NOMEX®/Kevlar® spunlace & 1.5 oz. AraFlo® Dri, STEDAIR 3000 PTFE laminated to E89

Liner Inspection System # CLO210

(Std.) Coat liner inspection system located at center left front of liner, with 1"9" loop.

For regular coats.

MISC. Fasteners # MF030

(Std.) 1x9" hook sewn to left front shell for the Coat Liner Inspection System

2. Pant Model / Design #PDPM/F \$ _____ x 5 = \$ _____

LION® Turnout Deluxe High-Back™ Pant, High Back

Pants with low-rise waist and Freedom design.

Pant Outer Shell Material # 7ozPBI®Max Natural

PBI® Max, 7.0 oz., Natural Color

Pant Fly Closure # FLY230S

Pant fly w/ STEDAIR 4000, closure thermoplastic zipper inside w/ 1.5" hook & loop, 3/4" hook underneath STEDAIR 4000 for liner attachment

Snap Attachment # SAP201

Snap attachment pant – 9 non-logo on shell waistband, 9 male on liner for waistband attachment and 2 male snaps on each liner leg

Hook & Dee # TUP503

1 short leather take-up strap riveted, 703 snap hook, D-ring

Take Up Straps # TUP506

(Std.) 1 pair 1/2" x 8 1/2" self-fabric postman take-up straps, 2 bartacks each strap and 5/8" postman slides.

Leg Tabs # LGT000-GLD

(Std.) 2 Gold Leather leg tabs per leg with non-logo female snaps

Pant Knee Reinforcement #KP675-BLK

Black Poly-coated aramid bellow knee patches w/2 layers Lite-N-Dri padding

Pant Cuff Reinforcement # PC504-BLK

Black Poly-coated aramid pant cuffs and 3x3.5" kick shield

Boot Cut # PMO542

"Boot Cut" pant legs

Turn-Out Pockets # FBP1054

10x10x2" Full bellow pocket w / KEVLAR® twill fully lined all 4 sides inside pocket & poly-coated aramid 5" up outside on pocket, 1 pc. 1.5x8" loop on pocket and 2 pcs. 1.5x2.75" hook on flap.

Turn-Out Pockets # BDP925

10x10x2" split bellow pocket & flap with KEVLAR® twill fully lined 4 sides inside pocket and poly-coated aramid 5" up on outside, 1 pc. 2x9" loop on pocket and 2 pcs. 1.5x3" hook on each flap.

Item location for above

Thigh Left – FBP

Thigh Right – BDP – SPLIT 20 F/80 R

Reflective Trim # PTC4PT3Y

3" Lime/Yellow Ventilated Triple Trim Reflective trim around leg bottoms – 4 rows lockstitch.

Suspender Tabs #PMO210

Four 2" wide self-material suspender tabs with 1.75x3" leather reinforcement. 2 male and 2 female logo snaps, attached to waist with 2 on the front and 2 on the back. Reinforced with 2 bartacks on each tab.

Suspenders #SB640TO

40" (Regular) EZH H-Back Quick Adjust Non-Stretch Suspenders with trim w/2" metal loops for NON-V-Force High-back, Black (Requires PMO210)

Pant Liner & Moisture Barrier #K3-Traditional

Traditional Liner, Glide Ice™ face cloth quilted to DWR treated 2.3 oz. NOMEX®/Kevlar® spunlace & DWR treated 1.5 oz. AraFlo®Dri® STEDAIR 3000 PTFE laminated to E89

Liner Inspection System # PLO200

(Std.) Pant liner inspection system with 1x3" loop located at right side of liner waist

MISC. Fasteners # MF018

(Std.) 1x3" hook sewn to right shell front for the pant liner inspection system

- 3. Resizing fee if any \$ _____
- 4. Cost to come Measure employees \$ _____
- 5. Warranty on turnout gear _____
- 6. Is there a Loaner Program Available? _____

- Price is for a period of one year from the bid award date.
- The maturity date of this contract will be one year from the bid award date. The City will have the option to renew this contract at the maturity date if both parties are in agreement to renew this bid, and the awarded bidder can hold their bid prices.
- **This renewal option shall be good for three (3) one-year extensions.**
- 4-6 sets will be ordered on an as needed basis after the first year if price can be held.

Price to be **FOB Destination** to 123 W. Cherry St., Douglas, GA. 31533

Total Bid \$ _____

Company Information

COMPANY NAME: _____

ADDRESS: _____

STATE: _____ ZIP: _____

PHONE: _____

FAX: _____

EMAIL: _____

REP. PRINTED NAME: _____

(TYPE OR PRINT LEGIBLY)

REP. SIGNATURE/TITLE: _____

TAX ID#: _____ or SS# _____

REFERENCE SHEET

This should be three people and phone numbers to whom we may contact to account for your company's quality of service.

NAME: _____ PHONE: _____

NAME: _____ PHONE: _____

NAME: _____ PHONE: _____

