



# Lexington-Fayette Urban County Government

Lexington, Kentucky  
Horse Capital of the World

Division of Central Purchasing

Date of Issue: April 2, 2015

## INVITATION TO BID #43-2015 Firefighter Protective Clothing

**Bid Opening Date:** April 16, 2015

**Bid Opening Time:** 2:00 PM

**Address:** 200 East Main Street, 3<sup>rd</sup> Floor, Room 338, Lexington, Kentucky 40507

**Type of Bid:** Price Contract

**Pre Bid Meeting:** N/A

**Pre Bid Time:** N/A

**Address:** N/A

Sealed bids will be received in the office of the Division of Central Purchasing, 200 East Main Street, Lexington, Kentucky, until **2:00 PM**, prevailing local time on **04/16/2015**. Bids must be received by the above-mentioned date and time. Mailed bids should be sent to:

**Division of Central Purchasing  
200 East Main Street, Room 338  
Lexington, KY 40507, (859) 258-3320**

The Lexington-Fayette Urban County Government assumes no responsibility for bids that are not addressed and delivered as indicated above. **Bids that are not delivered to the Division of Central Purchasing by the stated time and date will be rejected.** All bids must be signed and have the company name and address, bid invitation number, and the name of the bid on the outside of the envelope.

Bids are to include all shipping costs to the point of delivery located at: 1375 Old Frankfort Pike, Lexington, KY 40504

**Bid Security Required:** \_\_\_ Yes  No *Cashier Check, Certified Check, Bid Bond (Personal checks and company checks will not be acceptable).*

**Performance Bond Required:** \_\_\_ Yes  No

<input type="checkbox"/> Bid Specifications Met <input checked="" type="checkbox"/> <b>Check One:</b> Exceptions to Bid Specifications. <i>Exceptions shall be itemized and attached to bid proposal submitted.</i>	<b>Proposed Delivery:</b> 60-75 days after acceptance of bid.
<b>Procurement Card Usage</b> —The Lexington-Fayette Urban County Government may be using Procurement Cards to purchase goods and services and also to make payments. Will you accept Procurement Cards? ___ Yes <input checked="" type="checkbox"/> No	

Submitted by: BlueGRASS Fire Equipment  
*Firm Name*

780 Enterprise Dr  
*Address*

Lexington KY 40510  
*City, State & Zip*

**Bid must be signed:**  
*(original signature)*

April Hyams  
**Signature of Authorized Company Representative – Title**

APRIL HYAMS  
*Representative's Name (Typed or printed)*

859-233 0807 859-233-1167  
*Area Code - Phone - Extension* *Fax #*

ATyler6749@aol.com  
*E-Mail Address*

**The Affidavit in this bid must be completed before your firm can be considered for award of this contract.**

**AFFIDAVIT**

Comes the Affiant, April Hyams, and after being first duly sworn under penalty of perjury as follows:

1. His/her name is April Hyams and he/she is the individual submitting the bid or is the authorized representative of Bluegrass Fire Equipment the entity submitting the bid (hereinafter referred to as "Bidder")
2. Bidder will pay all taxes and fees, which are owed to the Lexington-Fayette Urban County Government at the time the bid is submitted, prior to award of the contract and will maintain a "current" status in regard to those taxes and fees during the life of the contract.
3. Bidder will obtain a Lexington-Fayette Urban County Government business license, if applicable, prior to award of the contract.
4. Bidder has authorized the Division of Central Purchasing to verify the above-mentioned information with the Division of Revenue and to disclose to the Urban County Council that taxes and/or fees are delinquent or that a business license has not been obtained.
5. Bidder has not knowingly violated any provision of the campaign finance laws of the Commonwealth of Kentucky within the past five (5) years and the award of a contract to the Bidder will not violate any provision of the campaign finance laws of the Commonwealth.
6. Bidder has not knowingly violated any provision of Chapter 25 of the Lexington-Fayette Urban County Government Code of Ordinances, known as "Ethics Act."
7. Bidder acknowledges that "knowingly" for purposes of this Affidavit means, with respect to conduct or to circumstances described by a statute or ordinance defining an offense, that a person is aware or should have been aware that his conduct is of that nature or that the circumstance exists.

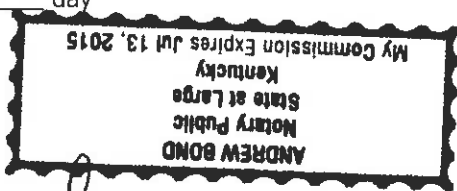
Further, Affiant sayeth naught. April Hyams

STATE OF KENTUCKY

COUNTY OF FAYETTE

The foregoing instrument was subscribed, sworn to and acknowledged before me by APRIL HYAMS on this the 15<sup>th</sup> day of April, 2015.

My Commission expires: 7-13-2015



Andrew Bond  
NOTARY PUBLIC, STATE AT LARGE

**Please refer to Section II. Bid Conditions, Item "U" prior to completing this form.**

**I. GREEN PROCUREMENT**

**A. ENERGY**

The Lexington-Fayette Urban County Government is committed to protecting our environment and being fiscally responsible to our citizens.

The Lexington-Fayette Urban County Government mandates the use of Energy Star compliant products if they are available in the marketplace (go to [www.Energystar.gov](http://www.Energystar.gov)). If these products are available, but not submitted in your pricing, your bid will be rejected as non-compliant.

ENERGY STAR is a government program that offers businesses and consumers energy-efficient solutions, making it easy to save money while protecting the environment for future generations.

Key Benefits

- These products use 25 to 50% less energy
- Reduced energy costs without compromising quality or performance
- Reduced air pollution because fewer fossil fuels are burned
- Significant return on investment
- Extended product life and decreased maintenance

**B. GREEN SEAL CERTIFIED PRODUCTS**

The Lexington-Fayette Urban County Government is also committed to using other environmentally friendly products that do not negatively impact our environment. Green Seal is a non-profit organization devoted to environmental standard setting, product certification, and public education.

Go to [www.Greenseal.org](http://www.Greenseal.org) to find available certified products. These products will have a reduced impact on the environment and on human health. The products to be used must be pre-approved by the LFUCG prior to commencement of any work in any LFUCG facility. If a Green Seal product is not available, the LFUCG must provide a signed waiver to use an alternate product. Please provide information on the Green Seal products being used with your bid response.

**C. GREEN COMMUNITY**

**The Lexington-Fayette Urban County Government (LFUCG) serves as a principal, along with the University of Kentucky and Fayette County Public Schools, in the Bluegrass Partnership for a Green Community. The Purchasing Team component of the Partnership collaborates on economy of scale purchasing that promotes and enhances environmental initiatives. Specifically, when applicable, each principal is interested in obtaining best value products and/or services which promote environment initiatives via solicitations and awards from the other principals.**

**If your company is the successful bidder on this Invitation For Bid, do you agree to extend the same product/service pricing to the other principals of the Bluegrass Partnership for a Green Community (i.e. University of Kentucky and Fayette County Schools) if requested?**

Yes \_\_\_\_\_ No  \_\_\_\_\_

## II. Bid Conditions

- A. No bid may be withdrawn for a period of sixty (60) days after the date and time set for opening.
- B. No bid may be altered after the date and time set for opening. In the case of obvious errors, the Division of Central Purchasing may permit the withdrawal of a bid. The decision as to whether a bid may be withdrawn shall be that of the Division of Central Purchasing.
- C. Acceptance of this proposal shall be enactment of an Ordinance by the Urban County Council.
- D. The bidder agrees that the Urban County Government reserves the right to reject any and all bids for either fiscal or technical reasons, and to award each part of the bid separately or all parts to one vendor.
- E. Minor exceptions may not eliminate the bidder. The decision as to whether any exception is minor shall be entirely that of the head of the requisitioning Department or Division and the Director of the Division of Central Purchasing. The Urban County Government may waive technicalities and informalities where such waiver would best serve the interests of the Urban County Government.
- F. Manufacturer's catalogue numbers, trade names, etc., where shown herein are for descriptive purposes and are to guide the bidder in interpreting the standard of quality, design, and performance desired, and shall not be construed to exclude proposals based on furnishing other types of materials and/or services. However, any substitution or departure proposed by the bidder must be clearly noted and described; otherwise, it will be assumed that the bidder intends to supply items specifically mentioned in this Invitation for Bids.
- G. The Urban County Government may require demonstrations of the materials proposed herein prior to acceptance of this proposal.
- H. Bids must be submitted on this form and must be signed by the bidder or his authorized representative. Unsigned bids will not be considered.
- I. Bids must be submitted prior to the date and time indicated for opening. Bids submitted after this time will not be considered.
- J. All bids mailed must be marked on the face of the envelope:  
  

**"Bid on #43-2015 Firefighter Protective Clothing"**

and addressed to:      Division of Central Purchasing  
   200 East Main Street, Room 338  
   Lexington, Kentucky 40507

**The Lexington-Fayette Urban County Government assumes no responsibility for bids that are not addressed and delivered as indicated above. Bids that are not delivered to the Division of Central Purchasing by the stated time and date will be rejected.**
- K. Bidder is requested to show both unit prices and lot prices. In the event of error, the unit price shall prevail.
- L. A certified check or Bid Bond in the amount of XX percent of the bid price must be attached hereto. This check must be made payable to the Lexington-Fayette Urban County Government, and will be returned when the material and/or services specified herein have been delivered in accordance with specifications. In the event of failure to perform within the time period set forth in this bid, it is agreed the certified check may be cashed and the funds retained by the Lexington-Fayette Urban County Government as liquidated damages. Checks of unsuccessful bidders will be returned when the bid has been awarded.
- M. The delivery dates specified by bidder may be a factor in the determination of the successful bidder.
- N. Tabulations of bids received may be mailed to bidders. Bidders requesting tabulations must enclose a stamped, self-addressed envelope with the bid.
- O. The Lexington-Fayette Urban County Government is exempt from Kentucky Sales Tax and Federal Excise Tax on materials purchased from this bid invitation. Materials purchased by the bidder for construction projects are not tax exempt and are the sole responsibility of the bidder.

- P. All material furnished hereunder must be in full compliance with OSHA regulations.
- Q. If more than one bid is offered by one party, or by any person or persons representing a party, all such bids shall be rejected.
- R. Signature on the face of this bid by the Bidder or his authorized representative shall be construed as acceptance of and compliance with all terms and conditions contained herein.
- S. The Entity (regardless of whether construction contractor, non-construction contractor or supplier) agrees to provide equal opportunity in employment for all qualified persons, to prohibit discrimination in employment because of race, color, creed, national origin, sex or age, and to promote equal employment through a positive, continuing program from itself and each of its sub-contracting agents. This program of equal employment opportunity shall apply to every aspect of its employment policies and practices.
- T. The Kentucky Equal Employment Opportunity Act of 1978 (KRS 45.560-45.640) requires that any county, city, town, school district, water district, hospital district, or other political subdivision of the state shall include in directly or indirectly publicly funded contracts for supplies, materials, services, or equipment hereinafter entered into the following provisions:

During the performance of this contract, the contractor agrees as follows:

- (1) The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, age or national origin;*
- (2) The contractor will state in all solicitations or advertisements for employees placed by or on behalf of the contractors that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, age or national origin;*
- (3) The contractor will post notices in conspicuous places, available to employees and applicants for employment, setting forth the provisions of the non-discrimination clauses required by this section; and*
- (4) The contractor will send a notice to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding advising the labor union or workers' representative of the contractor's commitments under the nondiscrimination clauses.*

The Act further provides:

KRS 45.610. Hiring minorities - Information required

- (1) For the length of the contract, each contractor shall hire minorities from other sources within the drawing area, should the union with which he has collective bargaining agreements be unwilling to supply sufficient minorities to satisfy the agreed upon goals and timetable.*
- (2) Each contractor shall, for the length of the contract, furnish such information as required by KRS 45.560 to KRS 45.640 and by such rules, regulations and orders issued pursuant thereto and will permit access to all books and records pertaining to his employment practices and work sites by the contracting agency and the department for purposes of investigation to ascertain compliance with KRS 45.560 to 45.640 and such rules, regulations and orders issued pursuant thereto.*

KRS 45.620. Action against contractor - Hiring of minority contractor or subcontractor

- (1) If any contractor is found by the department to have engaged in an unlawful practice under this chapter during the course of performing under a contract or subcontract covered under KRS 45.560 to 45.640, the department shall so certify to the contracting agency and such certification shall be binding upon the contracting agency unless it is reversed in the course of judicial review.*
- (2) If the contractor is found to have committed an unlawful practice under KRS 45.560 to 45.640, the contracting agency may cancel or terminate the contract, conditioned upon a program for future compliance approved by the contracting agency and the department. The contracting agency may declare such a contractor ineligible to bid on further contracts with that agency until such time as the contractor complies in full with the requirements of KRS 45.560 to 45.640.*

- (3) *The equal employment provisions of KRS 45.560 to 45.640 may be met in part by a contractor by subcontracting to a minority contractor or subcontractor. For the provisions of KRS 45.560 to 45.640, a minority contractor or subcontractor shall mean a business that is owned and controlled by one or more persons disadvantaged by racial or ethnic circumstances.*

KRS 45.630 Termination of existing employee not required, when

*Any provision of KRS 45.560 to 45.640 notwithstanding, no contractor shall be required to terminate an existing employee upon proof that that employee was employed prior to the date of the contract.*

KRS 45.640 Minimum skills

*Nothing in KRS 45.560 to 45.640 shall require a contractor to hire anyone who fails to demonstrate the minimum skills required to perform a particular job.*

It is recommended that all of the provisions above quoted to be included as special conditions in each contract.

In the case of a contract exceeding \$250,000, the contractor is required to furnish evidence that his work-force in Kentucky is representative of the available work-force in the area from which he draws employees, or to supply an Affirmative Action plan which will achieve such representation during the life of the contract.

- U. Any party, firm or individual submitting a proposal pursuant to this invitation must be in compliance with the requirements of the Lexington-Fayette Urban County Government regarding taxes and fees before they can be considered for award of this invitation and must maintain a "current" status with regard to those taxes and fees throughout the term of the contract. The contractor must be in compliance with Chapter 13 from the Code of Ordinances of the Lexington-Fayette Urban County Government. The contractor must be in compliance with Ordinance 35-2000 pursuant to contractor registration with the Division of Building Inspection. If applicable, said business must have a Fayette County business license.

Pursuant to KRS 45A.343 and KRS 45A.345, the contractor shall

- (1) *Reveal any final determination of a violation by the contractor within the previous five year period pursuant to KRS Chapters 136 (corporation and utility taxes), 139 (sales and use taxes), 141 (income taxes), 337 (wages and hours), 338 (occupational safety and health of employees), 341 (unemployment and compensation) and 342 (labor and human rights) that apply to the contractor; and*
- (2) *Be in continuous compliance with the above-mentioned KRS provisions that apply to the contractor for the duration of the contract.*

A contractor's failure to reveal the above or to comply with such provisions for the duration of the contract shall be grounds for cancellation of the contract and disqualification of the contractor from eligibility for future contracts for a period of two (2) years.

- V. Vendors who respond to this invitation have the right to file a notice of contention associated with the bid process or to file a notice of appeal of the recommendation made by the Director of Central Purchasing resulting from this invitation.

Notice of contention with the bid process must be filed within 3 business days of the bid/proposal opening by (1) sending a written notice, including sufficient documentation to support contention, to the Director of the Division of Central Purchasing or (2) submitting a written request for a meeting with the Director of Central Purchasing to explain his/her contention with the bid process. After consulting with the Commissioner of Finance the Chief Administrative Officer and reviewing the documentation and/or hearing the vendor, the Director of Central Purchasing shall promptly respond in writing findings as to the compliance with bid processes. If, based on this review, a bid process irregularity is deemed to have occurred the Director of Central Purchasing will consult with the Commissioner of Finance, the Chief Administrative Officer and the Department of Law as to the appropriate remedy.

Notice of appeal of a bid recommendation must be filed within 3 business days of the bid recommendation by (1) sending a written notice, including sufficient documentation to support appeal, to the Director, Division of Central Purchasing or (2) submitting a written request for a meeting with the Director of Central Purchasing to explain his appeal. After reviewing the documentation and/or hearing the vendor and consulting with the Commissioner of Finance and the Chief Administrative Officer, the Director of Central Purchasing shall in writing, affirm or withdraw the recommendation.

### **III. Procurement Contract Bid Conditions**

- A. The terms of this agreement shall be for 3 year(s) from the date of acceptance of this contract by the Lexington-Fayette Urban County Government. This agreement may be automatically extended for an additional 3-1 year(s) renewal. This contract may be canceled by either party thirty (30) days after delivery by canceling party of written notice of intent to cancel to the other contracting party.
- B. Price Changes (**Space Checked Applies**)
  - ( ) 1. Prices quoted in response to the Invitation shall be firm prices for the first 90 days of the Procurement Contract. After 90 days, prices may be subject to revision and such changes shall be based on general industry changes. Revision may be either increases or decreases and may be requested by either party. There will be no more than one (1) price adjustment per quarter. Requests for price changes shall be received in writing at least twenty (20) days prior to the effective date and are subject to written acceptance before becoming effective. Proof of the validity of a request for revision shall be responsibility of the requesting party. The Lexington-Fayette Urban County Government shall receive the benefit of any decline that the seller shall offer his other accounts.
  - ( ) 2. No provision for price change is made herein. Prices are to be firm for the term of this contract.
  - ( ) 3. Procurement Level Contract
  - (**XXX**) 4. The LFUCG will allow a 1.5 percent (1.5%) increase for year 2 and a 1.5% percent (1.5%) increase for year 3. If the contract is renewed, the vendor will be allowed a 1.5 percent (1.5%) increase for each renewable period.
- C. If any contract item is not available from the vendor, the Lexington-Fayette Urban County Government, at its option, may permit the item to be back-ordered or may procure the item on the open market.
- D. All invoices must bear reference to the Lexington-Fayette Urban County Government Purchasing document numbers which are being billed.
- E. This contract may be canceled by the Lexington-Fayette Urban County Government if it is determined that the Bidder has failed to perform under the terms of this agreement, such cancellation to be effective upon receipt of written notice of cancellation by the Bidder.
- F. No substitutions for articles specified herein may be made without prior approval of the Division of Central Purchasing.

## EQUAL OPPORTUNITY AGREEMENT

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### The Law

- Title VII of the Civil Rights Act of 1964 (amended 1972) states that it is unlawful for an employer to discriminate in employment because of race, color, religion, sex, age (40-70 years) or national origin.
- Executive Order No. 11246 on Nondiscrimination under Federal contract prohibits employment discrimination by contractor and sub-contractor doing business with the Federal Government or recipients of Federal funds. This order was later amended by Executive Order No. 11375 to prohibit discrimination on the basis of sex.
- Section 503 of the Rehabilitation Act of 1973 states:

*The Contractor will not discriminate against any employee or applicant for employment because of physical or mental handicap.*

- Section 2012 of the Vietnam Era Veterans Readjustment Act of 1973 requires Affirmative Action on behalf of disabled veterans and veterans of the Vietnam Era by contractors having Federal contracts.
- Section 206(A) of Executive Order 12086, Consolidation of Contract Compliance Functions for Equal Employment Opportunity, states:

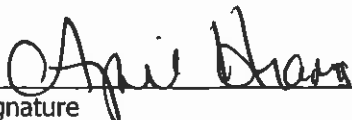
*The Secretary of Labor may investigate the employment practices of any Government contractor or sub-contractor to determine whether or not the contractual provisions specified in Section 202 of this order have been violated.*

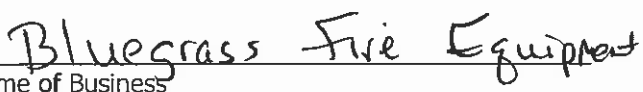
The Lexington-Fayette Urban County Government practices Equal Opportunity in recruiting, hiring and promoting. It is the Government's intent to affirmatively provide employment opportunities for those individuals who have previously not been allowed to enter into the mainstream of society. Because of its importance to the local Government, this policy carries the full endorsement of the Mayor, Commissioners, Directors and all supervisory personnel. In following this commitment to Equal Employment Opportunity and because the Government is the benefactor of the Federal funds, it is both against the Urban County Government policy and illegal for the Government to let contracts to companies which knowingly or unknowingly practice discrimination in their employment practices. Violation of the above mentioned ordinances may cause a contract to be canceled and the contractors may be declared ineligible for future consideration.

Please sign this statement in the appropriate space acknowledging that you have read and understand the provisions contained herein. Return this document as part of your application packet.

### Bidders

*I/We agree to comply with the Civil Rights Laws listed above that govern employment rights of minorities, women, Vietnam veterans, handicapped and aged persons.*

  
Signature

  
Name of Business



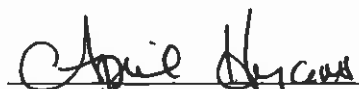
## **GENERAL PROVISIONS OF BID CONTRACT**

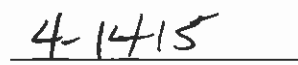
By signing the below, bidder acknowledges that it understands and agrees with the following provisions related to its bid response and the provision of any goods or services to LFUCG upon selection by LFUCG pursuant to the bid request:

1. Bidder shall comply with all Federal, State & Local regulations concerning this type of service or good.
2. Failure to submit ALL forms and information required by LFUCG may be grounds for disqualification.
3. Addenda: All addenda, if any, must be considered by the bidder in making its response, and such addenda shall be made a part of the requirements of the bid contract. Before submitting a bid response, it is incumbent upon bidder to be informed as to whether any addenda have been issued, and the failure of the bidder to cover any such addenda may result in disqualification of that response.
4. Bid Reservations: LFUCG reserves the right to reject any or all bid responses, to award in whole or part, and to waive minor immaterial defects in proposals. LFUCG may consider any alternative proposal that meets its basic needs.
5. Liability: LFUCG is not responsible for any cost incurred by bidder in the preparation of its response.
6. Changes/Alterations: Bidder may change or withdraw a proposal at any time prior to the opening; however, no oral modifications will be allowed. Only letters, or other formal written requests for modifications or corrections of a previously submitted proposal which is addressed in the same manner as the bid response, and received by LFUCG prior to the scheduled closing time for receipt of bids, will be accepted. The bid response when opened, will then be corrected in accordance with such written request(s), provided that the written request is contained in a sealed envelope which is plainly marked "modifications of bid response".
7. Clarification of Submittal: LFUCG reserves the right to obtain clarification of any point in a bid or to obtain additional information from any bidder.
8. Bribery Clause: By his/her signature on its response, bidder certifies that no employee of his/hers, any affiliate or subcontractor, has bribed or attempted to bribe an officer or employee of the LFUCG.
9. Additional Information: While not necessary, the bidder may include any product brochures, software documentation, sample reports, or other documentation that may assist LFUCG in better understanding and evaluating the bid response. Additional documentation shall not serve as a substitute for other documentation which is required by the LFUCG to be submitted with the bid response.
10. Ambiguity, Conflict or other Errors: If a bidder discovers any ambiguity, conflict, discrepancy, omission or other error in the bid request of LFUCG, it shall immediately notify LFUCG of such error in writing and request modification or clarification of the document if allowable by the LFUCG.
11. Agreement to Bid Terms: In submitting its bid response, the bidder agrees that it has carefully examined the specifications and all provisions relating to LFUCG's bid request, including but not limited to the bid contract. By submission of its bid response, bidder states that it understands the meaning, intent and requirements of LFUCG's bid request and agrees to the same. The successful bidder shall warrant that it is familiar with and understands all provisions herein and shall warrant that it can comply with them. No additional compensation to bidder shall be authorized for services, expenses, or goods reasonably covered under these provisions that the bidder omits from its bid response.
12. Cancellation: LFUCG may unilaterally terminate the bid contract with the selected bidder(s) at any time, with or without cause, by providing at least thirty (30) days advance written notice unless a different advance written

notice period is negotiated prior to contract approval. Payment for services or goods received prior to termination shall be made by the LFUCG provided these goods or services were provided in a manner acceptable to the LFUCG. Payment for those goods and services shall not be unreasonably withheld.

13. **Assignment of Contract:** The selected bidder(s) shall not assign or subcontract any portion of the bid contract with LFUCG without the express written consent of LFUCG. Any purported assignment or subcontract in violation hereof shall be void. It is expressly acknowledged that LFUCG shall never be required or obligated to consent to any request for assignment or subcontract; and further that such refusal to consent can be for any or no reason, fully within the sole discretion of LFUCG.
14. **No Waiver:** No failure or delay by LFUCG in exercising any right, remedy, power or privilege hereunder, nor any single or partial exercise thereof, nor the exercise of any other right, remedy, power or privilege shall operate as a waiver hereof or thereof. No failure or delay by LFUCG in exercising any right, remedy, power or privilege under or in respect of this bid proposal or bid contract shall affect the rights, remedies, powers or privileges of LFUCG hereunder or shall operate as a waiver thereof.
15. **Authority to do Business:** Each bidder must be authorized to do business under the laws of the Commonwealth of Kentucky and must be in good standing and have full legal capacity to provide the goods or services specified in the bid proposal. Each bidder must have all necessary right and lawful authority to submit the bid response and enter into the bid contract for the full term hereof including any necessary corporate or other action authorizing the bidder to submit the bid response and enter into this bid contract. If requested, the bidder will provide LFUCG with a copy of a corporate resolution authorizing this action and/or a letter from an attorney confirming that the proposer is authorized to do business in the Commonwealth of Kentucky. All bid responses must be signed by a duly authorized officer, agent or employee of the bidder.
16. **Governing Law:** This bid request and bid contract shall be governed by and construed in accordance with the laws of the Commonwealth of Kentucky. In the event of any proceedings regarding this matter, the bidder agrees that the venue shall be the Fayette County Circuit Court or the U.S. District Court for the Eastern District of Kentucky, Lexington Division and that the bidder expressly consents to personal jurisdiction and venue in such Court for the limited and sole purpose of proceedings relating to these matters or any rights or obligations arising thereunder.
17. **Ability to Meet Obligations:** Bidder affirmatively states that there are no actions, suits or proceedings of any kind pending against bidder or, to the knowledge of the bidder, threatened against the bidder before or by any court, governmental body or agency or other tribunal or authority which would, if adversely determined, have a materially adverse effect on the authority or ability of bidder to perform its obligations under this bid response or bid contract, or which question the legality, validity or enforceability hereof or thereof.
18. Bidder understands and agrees that its employees, agents, or subcontractors are not employees of LFUCG for any purpose whatsoever. Bidder is an independent contractor at all times related to the bid response or bid contract.
19. If any term or provision of this bid contract shall be found to be illegal or unenforceable, the remainder of the contract shall remain in full force and such term or provision shall be deemed stricken.

  
Signature

  
Date



Lexington-Fayette Urban County Government  
Division of Fire and Emergency Services  
**Bid #43-2015 Firefighter Protective Clothing**

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The Lexington-Fayette Urban County Government is now accepting bids in order to establish a price contract for the purchase of Firefighter Protective Clothing for the Division of Fire and Emergency Services at 1375 Old Frankfort Pike, Lexington, Kentucky, 40504.

**Scope**

In order for this contract to be awarded, a Request for Qualifications must be submitted. It is anticipated that this Request for Qualifications may result in a price contract for the supply of approximately 200 – 300 sets of fire fighter protective clothing, over a period of three (3) years. Supply shall consist of measuring, ordering, tailoring, and delivery of turnout gear as required by the Division of Fire. **Quantities are provided for bidding purposes only; LFUCG in no way guarantees purchase of these quantities.**

Measuring shall be done onsite at the Lexington Division of Fire Training Academy, located at 1375 Old Frankfort Pike, Lexington, Kentucky. **Garments shall meet the enclosed clothing specifications.**

**Evaluation Process**

The evaluation of bids will be done in two steps. The first step is evaluation of the submitted qualifications. Request for Qualifications shall consist of the following:

- Information relating to product warranties (raw materials and workmanship).
- Insurance indemnification
- Customer service features such as record keeping software.
- Lead or turn around time necessary for the construction of new or replacement garments.
- Respondents shall agree, in writing, to a 72-hour time frame for responding to qualifying issues, such as, improperly sized gear, workmanship errors, and inattention to specifications, etc. pertaining to protective garments.

Step two will consist of evaluation of pricing for the qualifying respondents. Price should include a unit cost per set (pants and coat) as well as the cost of elements of the ensemble sold separately (for replacement purposes).

**Term of Contract**

This contract shall be for an initial three (3) year period, with three (3) one (1) year renewable terms. Prices shall be held firm for the first year of the three (3) year period.

The LFUCG will allow a 1.5 percent (1.5%) increase for year 2 and a 1.5% percent (1.5%) increase for year 3. If the contract is renewed, the vendor will be allowed a 1.5 percent (1.5%) increase for each renewable period.

**Note to Bidders**

For questions, please contact Conni Hayes, Buyer, Division of Central Purchasing, at 859-258-3320 or [chayes@lexingtonky.gov](mailto:chayes@lexingtonky.gov). **Vendors or manufacturers are prohibited from making any contact with any Lexington Division of Fire Personnel.**

Pricing Section	
Description	Unit Price
Complete Set (Bunker Pants & Turnout Coat)	\$ 1605 <sup>00</sup> S - XL
	\$   2 XL
	\$   3 XL
	\$   4 XL
Bunker Pants	\$ 700 <sup>00</sup> S - XL
	\$   2 XL
	\$   3 XL
	\$   4 XL
Turnout Coat	\$ 905 <sup>00</sup> S - XL
	\$   2 XL
	\$   3 XL
	\$   4 XL
Pants; Shell Only	\$ 500 <sup>00</sup> S - XL
	\$   2 XL
	\$   3 XL
	\$   4 XL
Coat; Shell Only	\$ 689 S - XL
	\$   2 XL
	\$   3 XL
	\$   4 XL
Pants; Liner Only	\$ 500 <sup>00</sup> S - XL
	\$   2 XL
	\$   3 XL
	\$   4 XL

\* Note  
all sizes are the same price

Coat; Liner Only	\$ 586 <sup>00</sup> S - XL
	\$   2 XL
	\$   3 XL
	\$   4 XL
Pants; Moisture Barrier Only (including labor)	\$ 279 <sup>00</sup> S - XL
	\$   2 XL
	\$   3 XL
	\$   4 XL
Coat; Moisture Barrier Only (including labor)	\$ 321 <sup>00</sup> S - XL
	\$   2 XL
	\$   3 XL
	\$   4 XL
Pants; Thermal Liner Only (including labor)	\$ 350 <sup>00</sup> S - XL
	\$   2 XL
	\$   3 XL
	\$   4 XL
Coat; Thermal Liner Only (including labor)	\$ 415 <sup>00</sup> S - XL
	\$   2 XL
	\$   3 XL
	\$   4 XL

Vendors are encouraged to submit an additional price listing for accessories that are compatible to the specified gear.



**LFUCG  
DIVISION OF FIRE AND EMERGENCY SERVICE**





# SPECIFICATIONS FOR PROTECTIVE CLOTHING AND PROTECTIVE EQUIPMENT

Feb 2015

## **1 USER GUIDE, WARRANTY & TRAINING**

**1-1 User Information Guide:** A user information guide shall be included with each garment as required by NFPA 1971, Current Edition. Information included shall address but not be limited to the following: warnings, instructions, inspections, use, maintenance and cleaning, retirement, disposal and DRD information.

**1-2 Warranty:** A limited lifetime warranty of materials and workmanship shall be provided for each garment.

**1-3 Manufacturer Sponsored Training and Conferences:** The manufacturer shall ensure that training is provided for selected members of the Lexington Fire Department, on the proper care, maintenance and inspection of garments in accordance with NFPA 1851, Current Edition. This should include all necessary information about acceptable cleaning products and cleaning methods as well as comprehensive instructions on inspecting garments for signs of wear or damage. The manufacturer shall also ensure that selected members of the Lexington Fire Department will participate in any manufacturer sponsored conferences.

All expenses associated with providing both training and conferences, including travel, lodging, meals, etc, shall be the sole responsibility of the manufacturer.

**1-4 Design Modification After Award:** Any and all design modifications to the awarded garments shall be submitted, in writing, and agreed to by both parties prior to incorporation into production.

## **2 NFPA REQUIREMENTS**

All construction, features, and fabrics in this specification must meet or exceed the requirements of NFPA Standard 1971, current edition, and OSHA 1910, Subpart L. Such features, fabrics, construction, trim, and other details, whether specifically enumerated in this specification or not, are the responsibility of the dealer, agent, manufacturer or other seller. Implied or direct conflicts between this specification and NFPA 1971 and/or OSHA 1910, Subpart L are not the intention of this specification, and will be eliminated by notifying the issuing authority and subsequent alteration of the specification.

## **3 FABRIC REQUIREMENTS**

**3-1 Outer Shell Fabric:** The Outer Shell shall be 60% Kevlar, 40% PBI Gold Plus with Matrix technology, and weigh approximately 7.25 oz. per square yard with a stain and water repellent finish. The reinforced matrix shall be of 600 denier Kevlar cables. The color is to be Natural (PBI Gold).

- 3-2 Thermal Liner Fabric:** The Thermal Liner shall be Nomex facecloth, quilted to at least (2) layer(s) of E-89. The layer(s) and configuration of E-89 must meet the listed TPP and THL values.
- 3-3.1 Moisture Barrier Fabric:** The Moisture Barrier material shall be two layer CROSSTECH black moisture barrier type-2F, which is comprised of a CROSSTECH membrane laminated to a 3.3 ounce per square yard Nomex IIIA woven pajama check substrate. The CROSSTECH membrane is an enhanced bicomponent membrane composed of an expanded PTFE (polytetrafluoroethylene, for example Teflon) matrix having a continuous hydrophilic (i.e. water-loving) and oleophobic (i.e. oil hating) coating that is impregnated into the matrix. CROSSTECH black moisture barrier seams shall be sealed with GORE-SEAM tape using a series 600 (or higher) GORE-SEAM sealing machine to afford comparable bacteriophage penetration resistance performance.
- 3-4 Stitching:** Stitching will conform to Federal Standard 751a using stitch types #301, #401, #501, #514 and #516 on the shell, thermal liner and moisture barrier. Stitches will be continuous. All major A and B seams shall be stitched with a minimum of 8-10 stitches per inch. All stress points on the outer shell, to include the following: top and bottom pocket corners, pocket flap corners, top and bottom storm flap, fly at bottom, mic tab, and the flashlight attachment shall be reinforced using a bar tack. Reflective trim shall be stitched with four rows of stitch type #301 and a minimum of 6 stitches per inch.
- 3-5 Reflective Trim:** All trim shall be 3" Scotchlite in lime yellow (#9587) with silver stripe (#9587) in a staggered pattern on the sleeves. If staggered trim is not available, another system to prevent circumferential burns shall be used. The trim shall follow the NFPA basic pattern.
- 3-6 Thermal Protective Performance (TPP):** The garment composite, consisting of the outer shell, moisture barrier and thermal liner, shall provide a TPP value of not less than 40 after wash when tested in accordance with the NFPA 1971 standard.
- 3-7 Total Heat Loss (THL):** The garment composite, consisting of the outer shell, moisture barrier and thermal liner, shall provide a THL value of not less than 265 when tested in accordance with the NFPA 1971 standard.
- 3-8 Conductive and Compressive Heat Resistance (CCHR):** The CCHR rating shall be 25 seconds for the shoulder when measured at 2 psi (pounds per square inch) and 100 seconds for the knee when measured at 8 psi in accordance with the NFPA 1971 standard.

#### **4 BASIC GARMENT REQUIREMENTS**

The ensemble shall be designed so that there is at least a 2" overlap of all layers of the protective coat and the protective trouser, ensuring that there is no gaping of the total thermal protection when the protective garments are worn. The minimum overlap shall be determined by measuring the garments on the wearer, without SCBA, in both of the following positions:

- Position A: Standing, hands together reaching overhead as high as possible;  
Position B: Standing, hands together reaching overhead, with body bent forward, to the side, and to the back as much as possible.

The garment shall be made in the U.S.A.

- 4-1 Labeling of Garments:** Each element of the ensemble shall have a product label permanently and conspicuously located inside when the element is properly assembled with all layers and components properly in place. The certification organization's label, symbol, or identifying mark shall be permanently attached to the product label or shall be a part of the product label. The following compliance statement shall be on the product label: THIS (element item) MEETS THE (element item) REQUIREMENTS OF NFPA 1971, STANDARD ON PROTECTIVE ENSEMBLE FOR STRUCTURAL FIRE FIGHTING, 2007 EDITION. DO NOT REMOVE THIS LABEL. The following information shall also be printed on the product label: 1) manufacturer's name, identification, or designation 2) manufacturer's address 3) country of manufacture 4) manufacturer's element identification number 5) month and year of manufacture not coded 6) model name, number, or design 7) size or size range 8) principle material(s) of construction 9) cleaning precautions 10) the wearers name.
- 4-2 Sizing:** Coats shall be made available in even chest sizes. Sleeve lengths shall be available in short, regular, long and extra long. Pant sizes shall be made available in even waist sizes. Inseam lengths shall be available in extra short, short, regular, long and extra long. Special sizing shall be made available for those who require it. Male and female sizing shall be available. A properly trained manufacturer representative shall be made available for three consecutive days to ensure proper fitting when ordering. A complete sizing set of the gear style bid shall be available during the three consecutive days of sizing.
- 4-3 Moisture Management System:** The garment composite, consisting of the outer shell, moisture barrier and thermal liner shall be designed with a moisture management system that sheds water off of the outer shell and wicks moisture away from the wearer.
- 4-4 Liner Inspection Port:** There shall be a liner inspection port in both the coat and the pant liners. The coat port shall be located in the center of the collar, 12" in width. The pants port shall be located in the front right waist, 8" in width.
- 4-5 Liner Attachment System:** Each coat and trouser shall have a liner attachment system whereby the liner system can be removed for cleaning, repair, etc. This may be accomplished through the use of snaps and/or YKK zipper, and hook and pile (VELCRO).
- 4-6 Additional Options:** Other optional items not listed such as SCBA facepiece pocket, lumbar support, or numerous other accessories available from the various vendors may be purchased and used at the discretion of the individual provided they do not contradict the intent of these specifications or compromise the integrity of the protective clothing or equipment.

## **5 DETAILED COAT SPECIFICATIONS**

- 5-1 **Coat Construction:** The coat shall be 32" or 35" in length, measured at the center of the back from the collar seam to the hem bottom. The coat must be of 3-panel construction in all layers and provide maximum unrestrictive movement for optimum comfort and mobility. The body panels shall be shaped as to provide a tailored fit and contoured to the natural form of the body. All layers of the coat shall have the same pattern pieces in each layer to allow for a contoured style.
- 5-2 **Elbow:** The sleeve shall have some means of providing mobility and ease of movement in all layers in the elbow area. The outer shell at the elbow shall be reinforced with a 3-3.5 oz/sq. ft. split cowhide leather pad for abrasion resistance and thermal protection.
- 5-3 **Thermal Yoke:** There shall be 2 layers of E-89 sewn to the thermal liner between the thermal liner and the moisture barrier across the upper back, the upper front and the outer sleeves. The upper back shall be from the back shoulder and collar seams, 7" down and across the back ending at the armhole. The upper front yoke shall meet the back yoke and extend down 6" from the collar. The outer sleeves shall meet the front and back thermal yokes running 12" down from the collar seam, not extending into the underarm.
- 5-4 **Liner Pocket:** The liner shall have one 8 ½" by 8 ½" internal pocket made of an outer shell material and shall be located on the left side of the thermal liner.
- 5-5 **Outer Shell Shoulder Cap:** An 8" wide area at the top of the shoulders extending from the shoulder seam to a width of 6" at the collar shall be capped with PBI Max.
- 5-6 **Outer Shell Sleeve Cuffs and Wristlets:** The cuff of the sleeve shall be reinforced with a binding not less than 3" in total width and to be 3-3.5 oz/sq. ft. split cowhide leather for abrasion resistance and thermal protection. The wristlets shall extend completely over the palm with a means of preventing the wristlet from sliding back (thumb tab, thumbloop or separate thumbhole) for maximum reliable thermal and slash protection.
- 5-7 **Coat Front Closure Design:** The coat outer shell 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.
- 5-7a. **Outer Shell Front Closure System:** The outer shell front closure system shall be located so as to have an overlap between the left and right facings of the coat front. The closure system shall be secured by a minimum of three (3) snaps and not less than three (3) hooks and dees or a zipper closure system by which the coat front may be closed. The snaps, hooks and dees shall be fitted under the storm flap and along the left and right sides of the coat. The zipper shall be a YKK brass zipper and be sewn under the storm flap along the leading edge of the left side of the coat and set in 1 ¼" from the right edge of the coat.
- 5-7b. **Outside Storm Flap:** The storm flap shall be set on the outside 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 the outer shell fabric. The storm flap shall be closed with 1 1/2" hook and pile (VELCRO) with the pile portion sewn on the left front of the coat, and the hook portion sewn on the inner side of the storm flap. The storm flap shall be a minimum of 5" wide on a hook and D closure and a minimum of 3" on a zipper closure. The hook and pile (VELCRO) shall extend the length of the storm flap. Hook and pile strips shall be properly aligned when the front closure system is fastened and shall eliminate all exposed frontal hardware. The storm flap shall be attached to the coat with a

double # 301 stitch running the length of the storm flap and a bar tack stitch at the top and bottom corners.

- 5-8 **Collar:** The collar shall be 3" in height with a 4 layer configuration 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 shall be fully lined with one layer of Gore RT7100 PTFE moisture barrier material and two layers of 1.5 oz. E89 thermal liner. The collar shall provide proper interface with the liner to insure no moisture penetration through the collar seam to the inside of the coat.
- 5-9 **Hanger Loop:** A hanger loop constructed of a double or triple layer of outer shell material and reinforced with bar tacks shall be provided on 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.
- 5-10 **Outer Shell Pockets, Flaps and Closures:** The coat shall have two (2) outside full, bellows pocket(s) (without moisture barrier) sized 8" wide X 8" deep that expand by means of side and bottom gussets to a thickness of 2" in front and back. The four corners of the pocket and the pocket flap shall be bar tacked. This type pocket(s) shall be reinforced with 3-3.5 oz./sq. ft. split cowhide leather which extends down the bottom 5" of the outside of the pocket including its side and bottom gussets and the pocket bottom corners formed by these gussets. The inside of the pockets shall be lined with Kevlar twill extending down the bottom 8" of the pocket on three sides and the bottom of the pocket. Reflective trim shall run over the bottom of the pockets so as not to interrupt the trim stripe. Hook and pile (VELCRO) closure system shall be mounted such that the pile is on the pocket and the hook is on the underside of the flap. The wearer shall have the option to choose a semi-bellows hand warmer pocket instead of the 8" X 8" bellows pocket.
- 5-11 **Radio Pocket:** A radio pocket 2" deep X 3 1/2" wide X 8" long shall be sewn onto the left chest area of the coat, in a location that does not interfere with the wearing of SCBA. The radio pocket shall be lined with a neoprene-coated barrier. The top flap shall have an antenna notch on the left side. A radio mic tab 1" X 3" shall also be placed on the left chest area, not to interfere with SCBA straps. The mic tab shall be attached using a bar tack stitch on each end. The wearer may have the option to locate the pocket on the right side.
- 5-12 **Flashlight Attachment:** The flashlight attachment shall be located on the chest, opposite the radio pocket. There shall be a 1.25" x 10" self fabric flashlight holder x-stitched and bar tacked to the outer shell of the coat. The strap shall have a 1" x 3" hook applied to one end of the strap and 1" x 3" loop applied to the opposite end of the strap. There shall be a 703 hook applied to the outer shell 5" above the self fabric strap. It shall be securely fastened to the coat by means of a self fabric strap looped through the end of the 703 hook and bar tacked to the outer shell.
- 5-13 **Identification of Wearer:** The city designation (Lexington), and the name of the wearer shall be placed on individual panels using 3" Scotchlite trim material in solid lime yellow (#8987). The city designation panel shall be sewn in a straight-line fashion across the back, just below the shoulder area. The name panel shall display the first initial and last name. The name panel shall be secured to the coat by means of 1" hook and pile (Velcro)

on all four sides. The panel shall also be single needle stitched, and located at the center of the coat 1" above the lower trim.

- 5-14 **Drag Rescue Device (DRD)**: All coats shall contain a Drag Rescue Device (DRD). The access point to the DRD shall have orange reflective trim covering the entire flap.

## 6 **DETAILED TROUSER SPECIFICATIONS**

- 6-1 **Pant Construction**: All layers of the pant shall have the same pattern pieces in each layer to allow for a contoured style.

- 6-2 **Outside Storm Fly Front Closure System**: The front closure system shall be the standard hook and dee ring. The fly shall be closed by means of hook and pile VELCRO (minimum 1" width) that extends the full length of the fly.

- 6-3 **Waistband**: The waist shall be turned under to provide double material strength and be double stitched. Eight (8) suspender buttons shall be appropriately spaced around the waist to accommodate the use of suspenders. Three belt loops of two-layers of self fabric 4" wide by 3 1/2" high shall be double stitched to pant shell and bar tacked at all four corners. One loop at center back and one loop on each side. There shall be 2 external take up straps located 1" below the top of the waistband, one on each side. 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 hoop. Hook and loop attachments shall be used to secure the loose end of each take up strap to respective components. 1" x 4.5" loop fastener shall be set horizontally on each take-up strap. 1" x 3" hook fastener shall set at the end of the take-up strap and shall be positioned to engage the corresponding loop fastener.

- 6-4 **Outer Shell Bellows Pockets**: The trouser is to have two (2) outside full, 8" wide X 8" deep pockets that expand by means of side and bottom gussets to a thickness of 2" in front and back. The four corners of the pocket and the pocket flap shall be bar tacked. The pocket(s) shall be reinforced with 3-3.5 oz./sq. ft. split cowhide leather which extends down the bottom 5" of the outside of the pocket including its side and bottom gussets and the pocket bottom corners formed by these gussets. The inside of the pockets shall be lined with Kevlar twill extending down the bottom 8" of the pocket on three sides and the bottom of the pocket. Hook and pile (VELCRO) closure system shall be mounted such that the pile is on the pocket and the hook is on the underside of the flap.

- 6-5 **Knee**: The trouser leg shall have some means of providing mobility and ease of movement in all layers in the knee area, to be accompanied by a *bellowed knee insert* or extra fabric in the leg. An additional layer of the specified thermal liner shall be sewn onto the thermal liner in the knee area. The layer of extra thermal liner shall be the same size as the leather knee reinforcement and be aligned with the leather knee reinforcement. The outer shell in the knee shall be reinforced with a 3-3.5 oz/sq. ft. split cowhide leather pad for abrasion resistance and thermal protection. The CCHR of the knee shall have a

minimum rating of 100. The bid should include two (2) different knee options with corresponding bid prices. Each knee option shall meet the above CCHR rating, and must employ one of the following technologies; closed cell foam, a silicone product, air channel technology. Two (2) of the listed technologies should be represented by the two (2) options bid. The bid should be based on the cost of the premium knee comfort option.

- 6-6 **Trouser Cuffs:** The cuff area of the trouser shall be reinforced with a binding of 3-3.5 oz/sq. ft. split cowhide leather not less than 3" in total width for greater strength, abrasion resistance, and thermal protection. The outer shell trouser leg cuffs will be constructed such that the back of the leg is approximately 1" shorter than the front. The liner will also have a reverse boot cut at the rear of the cuff .
- 6-7 **Suspenders:** Suspenders may be utilized to maintain the protective trouser in the proper working positions. The straps comprising the suspender system shall be a minimum 1 1/2" wide and have a mechanism for length adjustment. All materials and construction features shall be "heavy duty".
- 6-8 **Belt:** The belt shall be a 2" wide black Kevlar belt with an adjustable high temp quick release thermoplastic buckle.

A built-in lumbar support in the protective trousers may be included as an optional item.



Lexington Division of Fire & Emergency Services  
Ability to Meet Minimum Requirements



Vendor Name Bluegrass Fire Equipment

The following information must be completed, and will be utilized for the purposes of bid evaluation. Please place an X in the appropriate response. (Note: specification paragraphs are referenced)

Specification	YES	NO
1-1 User Information Guide	X	
1-2 Warranty	X	
1-3 Manufacturer Sponsored Training and Conferences	X	
1-4 Design Modification After Award	X	
2 NFPA REQUIREMENTS	X	
3-1 Outer Shell Fabric	X	
3-2 Thermal Liner Fabric	X	
3-3.1 Moisture Barrier Fabric	X	
3-4 Stitching	X	
3-5 Reflective Trim	X	
3-6 Thermal Protective Performance (TPP)	X	
3-7 Total Heat Loss (THL)	X	
3-8 Conductive and Compressive Heat Resistance (CCHR)	X	
4 BASIC GARMENT REQUIREMENTS	X	
4.1 Labeling of Garments	X	
4-2 Sizing	X	
4-3 Moisture Management System	X	
4-4 Liner Inspection Port	X	
4-5 Liner Attachment System	X	
4-6 Additional Options	X	
5-1 Coat Construction	X	
5-2 Elbow	X	
5-3 Thermal Yoke	X	
5-4 Liner Pocket	X	
5-5 Outer Shell Shoulder Cap	X	
5-6 Outer Shell Sleeve Cuffs and Wristlets	X	
5-7 Coat Front Closure Design	X	
5-7a Outer Shell Front Closure System		X
5-7b Outside Storm Flap	X	
5-8 Collar	X	
5-9 Hanger Loop	X	
5-10 Outer Shell Pockets, Flaps and Closures	X	

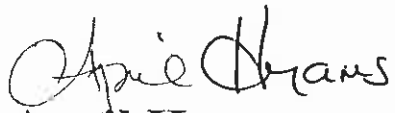


5-11 Radio Pocket	X	
5-13 Identification of Wearer	X	
5-14 Drag Rescue Device (DRD)	X	
6-1 Pant Construction	X	
6-2 Outside Storm Fly Front Closure System	X	
6-3 Waistband	X	
6-4 Outer Shell Bellows Pockets	X	
6-5 Knee	X	
6-6 Trouser Cuffs	X	
6-7 Suspenders	X	
6-8 Belt	X	

Lexington-Fayette Urban County Government  
Invitation to Bid #43-2015  
Firefighter Protective Clothing  
Exception

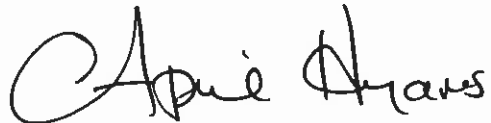
5-7a. Outer Shell Front Closure System: The front zipper shall consist of a thermoplastic zipper with a 1 3/4" polymer coated aramid tab added to the left bottom for fast closure and exit.

**Bluegrass Fire Equipment will respond to qualifying issues within 72 hours, such as improperly sized gear, workmanship errors, and any and all issues pertaining to protective garments**

A handwritten signature in cursive script that reads "April Hyams".

**April Hyams, representative of Bluegrass Fire Equip Co Inc**

**Per a telephone conversation with Todd Slaton  
LFUCG- division of purchasing, he said that we  
can provide the insurance indemnification  
information when and if we are being considered  
for award.**

A handwritten signature in cursive script that reads "April Hyams". The signature is written in black ink and is positioned above the printed name.

**April Hyams, representative of Bluegrass Fire  
Equip Co Inc**

**RISK MANAGEMENT PROVISIONS  
INSURANCE AND INDEMNIFICATION  
Bld #43-2015 Firefighter Protective Clothing**

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**INDEMNIFICATION AND HOLD HARMLESS PROVISION**

- (1) It is understood and agreed by the parties that Vendor hereby assumes the entire responsibility and liability for any and all damages to persons or property caused by or resulting from or arising out of any act or omission on the part of Vendor or its employees, agents, servants, owners, principals, licensees, assigns or subcontractors of any tier (hereinafter "Vendor") under or in connection with this agreement and/or the provision of goods or services and the performance or failure to perform any work required thereby.
- (2) Vendor shall indemnify, save, hold harmless and defend the Lexington-Fayette Urban County Government and its elected and appointed officials, employees, agents, volunteers, and successors in interest (hereinafter "LFUCG") from and against all liability, damages, and losses, including but not limited to, demands, claims, obligations, causes of action, judgments, penalties, fines, liens, costs, expenses, interest, defense costs and reasonable attorney's fees that are in any way incidental to or connected with, or that arise or are alleged to have arisen, directly or indirectly, from or by Vendor's performance or breach of the agreement and/or the provision of goods or services provided that: (a) it is attributable to personal injury, bodily injury, sickness, or death, or to injury to or destruction of property (including the loss of use resulting therefrom), or to or from the negligent acts, errors or omissions or willful misconduct of the Vendor; and (b) not caused solely by the active negligence or willful misconduct of LFUCG.
- (3) In the event LFUCG is alleged to be liable based upon the above, Vendor shall defend such allegations and shall bear all costs, fees and expenses of such defense, including but not limited to, all reasonable attorneys' fees and expenses, court costs, and expert witness fees and expenses, using attorneys approved in writing by LFUCG, which approval shall not be unreasonably withheld.
- (4) These provisions shall in no way be limited by any financial responsibility or insurance requirements, and shall survive the termination of this agreement.
- (5) LFUCG is a political subdivision of the Commonwealth of Kentucky. Vendor acknowledges and agrees that LFUCG is unable to provide indemnity or otherwise save, hold harmless, or defend the Vendor in any manner.

**FINANCIAL RESPONSIBILITY**

Vendor understands and agrees that it shall, prior to final acceptance of its bid and the commencement of any work, demonstrate the ability to assure compliance with the above Indemnity provisions and these other risk management provisions.

**INSURANCE REQUIREMENTS**

YOUR ATTENTION IS DIRECTED TO THE INSURANCE REQUIREMENTS BELOW, AAND YOU MAY NEED TO CONFER WITH YOUR INSURANCE AGENTS, BROKERS, OR CARRIERS TO DETERMINE IN ADVANCE OF SUBMISSION OF A RESPONSE THE AVAILABILITY OF THE INSURANCE COVERAGES AND ENDORSEMENTS REQUIRED HEREIN. IF YOU FAIL TO COMPLY WITH THE INSURANCE REQUIREMENTS BELOW, YOU MAY BE DISQUALIFIED FROM AWARD OF THE CONTRACT.

### Required Insurance Coverage

Vendor shall procure and maintain for the duration of this contract the following or equivalent insurance policies at no less than the limits shown below and cause its subcontractors to maintain similar insurance with limits acceptable to LFUCG in order to protect LFUCG against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the work or provision of goods hereunder by Vendor. The cost of such insurance shall be included in any bid:

<u>Coverage</u>	<u>Limits</u>
General Liability (Insurance Services Office Form CG 00 01)	\$1 million per occurrence, \$2 million aggregate or \$2 million combined single limit
Commercial Automobile Liability (Insurance Services Office Form CA 0001)	combined single, \$1 million per occurrence
Worker's Compensation	Statutory
Employer's Liability	\$500,000.00

The policies above shall contain the following conditions:

- a. All Certificates of Insurance forms used by the insurance carrier shall be properly filed and approved by the Department of Insurance for the Commonwealth of Kentucky. LFUCG shall be named as an additional insured in the General Liability Policy and Commercial Automobile Liability Policy using the Kentucky DOI approved forms.
- b. The General Liability Policy shall be primary to any insurance or self-insurance retained by LFUCG.
- c. LFUCG shall be provided at least 30 days advance written notice via certified mail, return receipt requested, in the event any of the required policies are canceled or non-renewed.
- d. The General Liability Policy shall include a Products Liability endorsement unless deemed not to apply by LFUCG.
- e. Said coverage shall be written by insurers acceptable to LFUCG and shall be in a form acceptable to LFUCG. Insurance placed with insurers with a rating classification of no less than Excellent (A or A-) and a financial size category of no less than VIII, as defined by the most current Best's Key Rating Guide shall be deemed automatically acceptable.

### Renewals

After insurance has been approved by LFUCG, evidence of renewal of an expiring policy must be submitted to LFUCG, and may be submitted on a manually signed renewal endorsement form. If the policy or carrier has changed, however, new evidence of coverage must be submitted in accordance with these Insurance Requirements.

### Deductibles and Self-Insured Programs

**IF YOU INTEND TO SUBMIT A SELF-INSURANCE PLAN IT MUST BE FORWARDED TO LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT, DIVISION OF RISK MANAGEMENT, 200 EAST MAIN STREET, LEXINGTON, KENTUCKY 40507 NO LATER THAN A MINIMUM OF**

**FIVE (5) WORKING DAYS PRIOR TO THE RESPONSE DATE.** Self-insurance programs, deductibles, and self-insured retentions in insurance policies are subject to separate approval by Lexington-Fayette Urban County Government's Division of Risk Management, upon review of evidence of Vendor's financial capacity to respond to claims. Any such programs or retentions must provide LFUCG with at least the same protection from liability and defense of suits as would be afforded by first-dollar insurance coverage. If Vendor satisfies any portion of the insurance requirements through deductibles, self-insurance programs, or self-insured retentions, Vendor agrees to provide Lexington-Fayette Urban County Government, Division of Risk Management, the following data prior to the final acceptance of bid and the commencement of any work:

- a. Latest audited financial statement, including auditor's notes.
- b. Any records of any self-insured trust fund plan or policy and related accounting statements.
- c. Actuarial funding reports or retained losses.
- d. Risk Management Manual or a description of the self-insurance and risk management program.
- e. A claim loss run summary for the previous five (5) years.
- f. Self-Insured Associations will be considered.

**Verification of Coverage**

Vendor agrees to furnish LFUCG with all applicable Certificates of Insurance signed by a person authorized by the insurer to bind coverage on its behalf prior to final award, and if requested, shall provide LFUCG copies of all insurance policies, including all endorsements.

**Right to Review, Audit and Inspect**

Vendor understands and agrees that LFUCG may review, audit and inspect any and all of its records and operations to insure compliance with these Insurance Requirements.

**DEFAULT**

Vendor understands and agrees that the failure to comply with any of these insurance, safety, or loss control provisions shall constitute default and that LFUCG may elect at its option any single remedy or penalty or any combination of remedies and penalties, as available, including but not limited to purchasing insurance and charging Vendor for any such insurance premiums purchased, or suspending or terminating the work.

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# Personal Protective Equipment

## Technical Specification

Prepared On:

Apr 13, 2015

Prepared For:

Bluegrass Fire Equipment

Lexington

Kentucky

On Behalf of:

Lexington Fire & EMS Services Public Safety

Lexington

Kentucky



**LION® V-FORCE™ COAT AND PANT  
PROTECTIVE CLOTHING SPECIFICATION  
NFPA 1971, 2013 EDITION**

**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.

**STANDARDS:** 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 certification organization shall denote certification.

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

**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 35 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 205 when tested in accordance with NFPA 1971 standard.

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

**OUTER SHELL MATERIAL:** PBI® MATRIX +/- 7.25 oz./sq. yd. 40% PBI®/60% KEVLAR® highly constructed ripstop weave with extremely durable FPE water resistant Teflon® FPE alloy reinforced with a matrix of 600 denier filament KEVLAR® cables. Color shall be natural (gold).

**MOISTURE BARRIER MATERIAL: CROSSTECH® BLACK (Type 2F):** NOMEX® substrate laminated to a lightweight breathable, Teflon membrane; weighing 5.0 oz./sq. yd.

**THERMAL LINER MATERIAL: Glide 2 Layer Araflo** The thermal liner shall be comprised of Glide™ high-lubricity, stress reducing, filament/spun face cloth weighing 3.6 oz./sq.yd. The Kevlar 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. Nomex spun yarns, with superior wicking characteristics, shall be used to promote moisture management within the garment. The Glide™ face cloth shall be quilted to one layer spunlace aramid (85%NOMEX®/15% KEVLAR®) weighing approximately 2.3 oz./sq. yd. and one layer of apertured (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.).

**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 rows lockstitch 301, minimum six stitches/inch for most secure trim attachment.

Trim shall be 3" Ventilated Scotchlite™ Triple Trim (lime/yellow).

Coat trim shall be applied as follows: **3" NFPA 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 full circumference at the chest. A 3" stripe of red/orange Triple Trim shall be set vertically down flap of fallen man harness.

Pant trim shall be applied as follows: One strip set full circumference around the bottom of the cuff 2"/3" from the bottom cuff.

Ventilated Trim shall be 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.

**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 extra short, short, regular and long. Male and female sizing is available.

**NOTE:** All measurements are approximate and have a +/- tolerance of at least 1/4 inch. Positioning of parts on smaller size garments also may vary due to limited space available on smaller chest and waist sizes.

**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, 2013 EDITION**

**MADE IN THE U.S.A.**

**TRACKING LABEL SYSTEM:** 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.

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

**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.

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

**COUNTRY OF ORIGIN:** The garments shall be manufactured in the United States.

## V-FORCE™ COAT

**COAT CONSTRUCTION:** The coat is designed of a 3-panel construction in all layers of our innovative V-fit design for optimum comfort and mobility. 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. (29” or 32” female) Sleeves shall be of raglan design.

**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 neck of the moisture barrier/thermal liner shall be secured to the neck of the outer shell collar such that when donning the coat an arm may not be accidentally caught between the outer shell and its inner linings along the neck between the armholes. Liner shall have a 2” wide, 2-ply CROSSTECH®/NOMEX® pajama check extension sewn the full length of the neck. 3/4” wide loop shall be sewn on extension to tuck into pleat in outer shell collar.

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.

**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 thermoplastic zipper and two snaps down each front facing, hook and loop shall also be located around the entire neck opening. In addition, there will be a snap for alignment along the bottom of the liner, and one snap and hook and loop at each sleeve end.

**COAT LINER INSPECTION SYSTEM:** There shall be a 10” opening located on the coat liner system at the center right 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.

**COLLAR:** The collar shall be of three piece contoured 4-layer configuration 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 one layer of Gore RT7100™ PTFE moisture barrier material and two layers of 1.5 oz. apertured NOMEX®/Kevlar® spunlace thermal liner. The collar shall provide proper interface with liner to insure no moisture penetration through the collar seam to inside of coat.

The collar shall be contoured and shall completely cover the neck and throat area when in the raised position. Raised height shall be approximately three 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 SCBA facemasks, nor helmet.

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.

The three piece contoured 4-layer collar shall be sewn with a pleat on the innermost layer. Pleat shall have 3/4" hook sewn on the underside to engage the moisture barrier extension on the liner.

**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" x 3.5" 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" x 2" 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.

**HANGER LOOP:** 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.

**THERMAL REINFORCED YOKE:** A layer of Semper Dri™ (3.0 oz./sq. yd. Teflon® treated Chambray (NOMEX® spun) face cloth quilted to (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 and raglan sleeve of the thermal liner across the upper back and shoulder approximately 7".

**OUTER YOKE REINFORCEMENT:** A layer of Semper Dri™ (3.0 oz./sq. yd. Teflon® treated Chambray (NOMEX® spun) face cloth quilted to NOMEX®/Kevlar® spunlace (Total weight +/- 6.0-6.8 oz./sq. yd.)) shall be sewn to the inside of the outer shell upper back portion and sleeve 13" in length and 12" across the sleeve.

**SHOULDER CAPS:** 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.

**V-FIT™ ELBOW:** The sleeve shall have an insert throughout all layers that shall provide a natural bend in the sleeve. This elbow shall include cut outs, shaped pieces, and darts to create free movement with few restrictions. The insert shall consist of black split cowhide.

**SLEEVE WELL:** 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 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. A 3/4" wide strip of Loop fastener shall be sewn full circumference to the end of the thermal liner leader to help secure the combination liner to the outer shell. A CROSSTECH® Black (Type 2F) moisture barrier leader shall be sewn no more than 1" back from the combination liner sleeve end. This leader shall be approximately 4" in length and end with a gathering of 1" elastic. This sleeve well shall reduce 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 snaps then attaching the Loop fastener of the combination liner sleeve end with the Hook fastener on the outer shell sleeve. This method of combination liner attachment shall reduce 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 end.

**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 with extremely durable Teflon® water resistant alloy not less than 8" extending completely over the palm with a thumbhole. Wristlets shall be double stitched and bound to the moisture barrier/thermal liner providing extended thermal and slash protection.

**CUFFS:** The extended cuff of the sleeve shall be reinforced with a binding of black split cowhide leather not less than 3" in total width for abrasion resistance and thermal protection. One leather tab with female snap fastener shall be set in the cuff to attach outer shell to liner.

**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 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 2.5" 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.

**FRONT/STORM FLAP CLOSURES:** The front closure shall consist of a thermoplastic zipper with a 1 3/4" polymer coated aramid tab added to the left bottom for fast closure and exit. The storm flap closure shall consist of double-stitched 1" wide hook and loop attachment with hook fastener sewn on the left front of the coat, and corresponding 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.

**FULL BELLOWS POCKETS:** Two 8" wide x 8" deep outside full bellows pockets that expand by means of side and bottom gussets to a thickness of 2" in front and back shall be located one each on the left and right

front panel at the hem. Pockets shall be fully lined with KEVLAR® twill on three sides. There shall be additional black leather reinforcement 5" up outside on the 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 9" 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.

**RADIO POCKET:** 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 shall be located on the left or right chest as specified on orders. 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 polycotton lining. Pocket flap shall close to the pocket top using 1 piece of 2"x 3" loop on pocket horizontally and 1 piece of 2"x 3" hook on flap vertically. Pocket flap shall include an antenna notch to accommodate an antenna. The antenna notch shall always be on the left.

**FLASHLIGHT ASSEMBLY:** There shall be a 1" x 2" two-layer self-fabric 703 flashlight snap holder with 2 bartacks set on the opposite chest as the radio pocket. This shall be set 4" above the strap.

There shall be a 1x10" two layer self-fabric flashlight strap X-stitched to shell with one piece 1x3" hook on one end and one piece 1x3" loop on the opposite end set 1" above the chest trim.

**LETTERS AND LETTER PATCH:** 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, LEXINGTON sewn on.

There shall be one 4"x15" 1-layer self-fabric one-line letter patch. Hook and loop shall be used to attach patch 1" above the hem trim. There shall be 3" lime/yellow Scotchlite letters, first initial and last name sewn on (2" letters will be used for longer names).

**MIC TABS:** There shall be a 1" x 3" triple layer self-fabric mic tab attached with bar tacks on each side attached above the radio pocket. Bar tacks shall be a minimum 42-stitch bar tack.

#### **COAT OPTIONS:**

**STORM FLAP:** A storm flap measuring not less than 5" 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.

The front closure shall consist of four snap hooks shall be set with three leather reinforced rivets at the extreme right side of the coat front underneath the storm flap. Opposite of each snap hook, a corresponding dee ring set to the underside of the leading edge of the left coat front with two leather reinforced rivets. Three glove snaps shall be placed between the inside hook and dee rings to assure proper closure. The storm flap closure shall consist of double-stitched 2" wide loop on the inner side of the storm flap and double-stitched 2" wide hook attachment on the left coat front. The hook and loop closure shall extend the full length of the outer storm flap eliminating all exposed frontal hardware.

**HANDWARMER POCKETS:** Two 8" x 8" handwarmer pockets that expand by means of a 2" pleat. The pockets shall be lined and reinforced with KEVLAR® twill fully lined all 3 sides inside pocket & 4" up inside

on shell. There shall be additional leather reinforcement 5" up on the outside of the 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 3.5" x 8.5". Pocket flaps shall close to the pocket using a piece of 1.5" x 4" loop horizontally on the pocket and a piece of 1.5" x 4" hook horizontally on underside of flap.

**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.



## V-FORCE™ PANT WITH BELT

**PANT CONSTRUCTION:** The pant shall have a low rise waist V-Fit™ design with a two inch KEVLAR® belt.

**BELT:** Two inch wide KEVLAR® belt with 2" self-locking thermoplastic buckle with quick-release mechanism.

**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 two layers of Nomex®/Kevlar® spunlace (Total weight +/- 6.0-6.8 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 uninterrupted 1/8" thick, fire resistant closed-cell foam shall be positioned between the moisture barrier and thermal liner.

**Quilt Thermal Liner Construction:** The CROSSTECH® Black (Type 2F) moisture barrier shall be sewn to the thermal liner at its perimeter. All moisture barrier seams shall be sealed as required by NFPA 1971. The moisture barrier/thermal liner shall finish no more than 3" from the cuffs.

**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 using snaps and hook and loop. Eight evenly spaced snaps shall secure the liner to the integral waistband; two snaps shall be set in grey leather leg tabs at each leg end and hook and loop on each side of fly facing.

**PANT LINER INSPECTION SYSTEM:** 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.

**STORM FLY/CLOSURE:** The outer shell shall have a sewn on 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.

The storm fly shall be held closed along its length by means of a hook and loop fastener closure 1.5" minimum width sewn with four rows lockstitch, 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. 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 4" strip of CROSSTECH® Black (Type 2F) moisture barrier material and 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)).

**THERMAL FLY ASSEMBLY:** A 3/4" wide x 9" long loop fastener shall be sewn to the moisture barrier/thermal liner to engage corresponding hook fastener on the underside of the outside storm fly and facing.

**WAISTBAND:** The waist of the pants shall be reinforced on the inside with 1-ply of outer shell fabric material not less than 1.5" in width. The pant waist shall be contour shaped for better comfort and hemmed to provide 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.

Three belt loops of two-layers of self fabric, 4" wide by 3 1/2" high shall be double stitched to pant shell and bartacked at all four corners. One loop at center back and one loop on each side.

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 hook and loop fastener. The rear 4.5" 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 3" hook fastener attached to the loose strap end to engage the corresponding 1" x 4.5" loop fastener at end of strap to allow for adjustment.

**RADIAL INSEAM BAND:** A radial banded insert runs continuously from the top of knee on one leg, through the crotch area to the top of the opposite knee. The elimination of crotch seams reduces tension in the crotch area to give added comfort and helps to alleviate stress to extend the useful life of the gear. Also there is an added insert piece in the design to help ensure that when the firefighter is kneeling or bending the leg of the garment bends in alignment with the leg so that the knee of the firefighter centers on the knee pad of the pants. It also helps to eliminate rubbing of the inseams of each leg against each other when the firefighter is working so that the risk of abrasion of the seams is minimized.

**V-FIT™ KNEE:** The knee shall have an insert throughout all layers that shall provide a natural bend in the leg. This knee shall include cut outs, shaped pieces, and darts to create free movement with few restrictions. The insert shall consist of black leather for abrasion resistance and thermal protection. 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. For additional extended thermal protection, two layers of uninterrupted 1/8" thick, fire retardant closed-cell foam and one layer of silicone shall be also be positioned between the reinforcement layer and outer shell.

**CUFFS:** The cuff area of the pant shall be reinforced with a binding of black split cowhide leather 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 inseam area of the pant leg above the pant cuff and below the pant trim, in order to provide extra abrasion protection. The material used on the kick shield shall match the material used on the pants cuffs. The back portion of the cuff will gradually curve upward from each side seam to a maximum of 2" at the center back of the pant leg to prevent wear on the back of the cuff.

**FULL BELLOWS POCKETS:** Two 8" wide x 8" deep outside full bellows pockets that expand by means of side and bottom gussets to a thickness of 2" in front and back shall be attached one to each thigh. Pockets shall be fully lined with KEVLAR® twill on three sides. There shall be additional black leather reinforcement 5" up outside on the 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 9" 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.

**PANT OPTIONS:**

**V-FIT™ KNEE:** The knee shall have an insert throughout all layers that shall provide a natural bend in the leg. This knee shall include cut outs, shaped pieces, and darts to create free movement with few restrictions. The insert shall consist of black split cowhide leather for abrasion resistance and thermal protection. 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. 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.

## QUICK ADJUST H-BACK SUSPENDERS WITH TRADITIONAL ATTACHMENTS

### 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 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 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 to 2" buttonhole peerless loops constructed of .080 diameter wire with a 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.

Changes to provide 34", 36" & 48" lengths:

SB334 (34" length) \*34" black, \*\* Two 16" shoulder straps, \*\*\*Two 4" back straps, \*\*\*\*1 1/2" long

SB336 (36" length) \*36" black, \*\* Two 16" shoulder straps, \*\*\*Two 5" back straps, \*\*\*\*2" long

SB348 (48" length) \*48" black, \*\*Two 18" shoulder straps, \*\*\*Two 9" back straps, \*\*\*\*4" long

## FASET 1851 TRACKING SOFTWARE

The manufacturer shall provide a web accessed Software-as-a-Service (SaaS) Fire and Safety Equipment Tracking program. This program shall track all record-keeping elements required for fire department compliance to NFPA 1851, Standard on Selection Care, and Maintenance of Structural Fire Fighting Protective Ensembles, 2008 Edition. This software shall also provide the capability of tracking hose, ladders, SCBA, rescue tools, and other small equipment.

The turnout gear label shall contain a serial number that is unique to each garment. The serial number can be manually entered, or scanned from the one dimensional barcode which is also located on the garment label. The manufacturer must also provide a compatible Symbol – LS2208 bar code scanner.

An electronic user guide shall be provided with the initial software and updates will be made available for download. In addition, “help desk” support must be provided via a toll free number.

### Department Scheduled Sizing Event Support

LION shall provide the Lexington Fire Department with a complete turnout gear sizing set, visual display of options/placements specific to the agreed upon specification and regional sales manager participation and support during department scheduled sizing events.

### PPE Accountability/Tracking

FASET Fire and Safety Equipment Asset Management

FASET, LION's Fire and Safety Equipment Tracker, is included when purchasing LION personal protective equipment as the solution to Lexington Fire Department's equipment-tracking needs



## COMPANY PROFILE

LION is a family owned, global business headquartered in Dayton, Ohio, that has been operating continuously since 1898. Municipal, state, federal and military agencies are its primary customers throughout the world. Its mission is to fulfill its customers' personal safety, readiness and identity needs with innovative, game-changing solutions.

### **OUR MARKETS**

LION operates in three markets: emergency services, military and personal equipment lifecycle management. In the emergency service markets, LION and its affiliates are the largest provider of firefighter personal protective equipment (PPE) in the world, outfitting more of the world's largest cities than any other organization. LION, through its BullEx and HAAGEN brands, is also the largest provider of training equipment and facilities for first responders, having built the three largest first responder training facilities in the world.

LION has also led the global personal equipment lifecycle management industry with its LION TotalCare® service program for PPE that is delivered to over 40,000 firefighters around the world. In the military market, LION and its affiliates deliver management services through LION TotalCare® military programs with the U.S. Marine Corps, U.S. Navy, and the U.S. Department of Defense Troop Support.



**COMPANY LOCATIONS:**

- Corporate Headquarters: Dayton, OH
- Manufacturing Facilities: West Liberty, KY; Dayton, OH; Berlin, WI; and Toronto, Ontario
- Distribution Center: Hazel Green, KY
- LION TotalCare Centers: Chicago, Houston, Dallas, Boston, and Kennett Square, PA
- Clothing and textile logistics management operations: 16 Marine Corps bases and 3 Army and Navy locations
- BullEx Digital Safety: Albany, NY
- HAAGEN Fire Training Equipment: Baarle, Netherlands



## **OUR FIRE PERSONAL PROTECTIVE EQUIPMENT (PPE)**

LION's innovative, high-performance head-to-toe fire PPE products and services include:

### **LION Turnout Gear**

LION provides innovative, comfortable PPE with a focus on mobility. For decades, LION has been the industry leader in the fight against firefighter stress by incorporating innovative design features and materials to deliver the most natural, least restrictive movement possible. We are the innovator of dozens of meaningful patents, including:

- IsoDri® Protective Systems
- Flame-resistant, closed-cell cushioning and reinforcements
- AraFlo® apertured thermal liners
- Integrated lumbar support
- Freedom® mobility system
- V-Fit™ Design
- LION Ventilated Trim™

LION focuses on providing some of the safest, most comfortable bunker gear available. Our V-Force raises the bar for firefighter protective clothing by employing LION's innovative V-Fit™ Design. V-Fit takes the best technology from combat and professional sports clothing and applies it to bunker gear. The result is the optimum balance of comfort, mobility and protection.

All LION bunker gear has:

- Innovative, ergonomic design through every layer of the protective ensemble so that your gear moves when you do.
- The Semper Dri™ System that reduces water absorption in pants legs, coat cuffs and yoke to keep your working weight lighter.
- Knees with water-resistant FR closed-cell cushioning to add thermal protection in this high-compression area.
- The Ever-Dry™ Reach System that reduces vulnerability to water, steam and flame. When you reach, full protection stays on your wrist.

### **LION Helmets™**

LION firefighter helmets are engineered from a first responder's perspective for exceptional fit and protection. We combine the time-honored traditions of the fire and rescue service with the latest technical advancements in firefighting materials, design, and manufacturing. And we let you choose the firefighting material that's best for you, offering fiberglass and leather fire and rescue helmets. The result is a customized fire helmet that's light and comfortable, but provides optimum heat and impact resistance. Patented Center of Gravity™ adjustment system lets you set the center of gravity to your liking and keeps it positioned in place. The suspension system is removable for easy inspection, cleaning or maintenance.



In addition, only LION can offer custom-color helmets, in any Pantone Matching System color. Our custom color helmets employ Resin Transfer Molding technology for lasting good looks, just like our standard color helmets. This means there is color pigmentation throughout the shell. If you nick or scratch your helmet, there is no glaring white spot. No touch up paint is required.

### **LION Technical Footwear™**

A comfortable boot is essential to safety on the fireground because when your feet hurt, you can lose mobility and stamina. Made with top-grade U.S. fire-resistant leather, LION Technical Footwear brings superior working comfort, flexibility, safety and durability — run after run.

Our line of technical footwear features our patented Lock-Fit Ankle Support System™ — anatomical padding that locks your ankle securely in place. The Lock-Fit Ankle Support System grabs your ankle and foot to improve surefootedness and reduce the risk of slips, trips and falls. LION Technical Footwear is built with the most durable materials, including Goodyear® storm welt, Lenzi® puncture-resistant midsole, breathable CROSSTECH® fabric, a Vibram® Fire & Ice™ sole and premium, top-grade U.S. fire-resistant leather.

### **LION Protective Gloves®**

LION is proud to provide our Commander™ glove to many several metropolitan fire department customers, including FDNY, Nashville Fire Department, Jacksonville Fire and Rescue and Cal Fire – Riverside County. In addition to the Commander, LION offers several models of NFPA 1971-certified structural firefighting gloves, as well as extrication glove offerings.

### **LION StationWear™**

Our uniform garments are engineered for easy care and maintenance. Your job is unpredictable and requires a uniform with the strength and performance to stand up to the rigors of the job.

With LION StationWear™ you get:

- Designs with features that facilitate job performance.
- Construction and reinforcements that meet the challenges of your job head on.
- Wickable fabrics that transport sweat away from the body and toward the bunker gear's breathable moisture barrier.

Our NFPA 1975-compliant uniforms are made with fabrics, pocketing, labels, waistbands, zipper tape and sewn with thread all certified to meet this requirement. Certified LION StationWear™ garments are independently audited and certified.

### **LION CBRN**

Chem/bio incidents don't have to mean hot and muggy disposable suits. LION CBRN offers several NFPA-certified chem/bio ensembles to provide mission-specific protection. Each is lightweight and comfortable, and can be reused as long as you're not exposed or contaminated.

### **LION TotalCare®**

LION TotalCare provides fire departments with customized solutions to more efficiently maintain bunker gear and other PPE, which optimizes their protective performance, improves firefighter safety, and provides cost-savings to the fire department. We are a verified ISP recognized by all manufacturers of PPE. The TotalCare team knows NFPA 1971 as well as NFPA 1851 and applies those standards and criteria to all of our services. We specialize in the care and maintenance of PPE. So we have developed knowledge on PPE construction and performance requirements, and a skill base to effectively restore their protective performance.

Our TotalCare services include:

- Advanced Inspection
- Advanced Cleaning
- Decontamination and disinfection
- Repair
- Retrofits and alterations
- Rental gear
- Emergency back-up gear
- NFPA 1851 recordkeeping
- Customized programs

TotalCare operates centers in Chicago, Houston, Dallas, Boston, and Kennett Square, PA.

### **FIRE SERVICE TRAINING**

LION also offers training that helps firefighters train for live fires and to help keep their bunker gear properly maintained. These training opportunities include.

### **LION Training Resources Group (LTRG)**

LION's Training Resources Group supports ongoing training and education for all firefighters through our BullEx and Haagen divisions. BullEx and Haagen comprise the largest fire equipment training services offering in the world.

Together, BullEx and Haagen provide:

- Live Fire Training and Instruction
- Live Fire Extinguisher Training for both corporations and first responders
- Digital Fire Extinguisher Training
- Live Fire and Hazmat Training Props
- Smoke Generators
- SmartDummy Mannikins

- Fire Safety Trailers
- Custom Build Fire Training Facilities

### **LION Fire Academy**

LION provides free online PPE education through LION Fire Academy ([www.lionfireacademy.com](http://www.lionfireacademy.com)). LION Fire Academy provides fire department members with online training and Continuing Education Units for successful completion. Training focuses on NFPA 1500 PPE Safety and Use and NFPA 1851 manufacturer training on PPE advanced inspection, advanced cleaning and basic repair. These training programs have been designed for use with any brand of PPE. In addition, the site includes specific training modules for LION products.

LION Fire Academy's NFPA 1500 and 1851 training modules can be incorporated into your department's training program. We can send copies of certificates confirming successful completion of mandated training to your training officer or department contact.

### **LION RESEARCH & DEVELOPMENT RESOURCES**

Many of the LION's most exciting innovations for the fire service can be traced to the company's close collaboration with key end users and its historic investment in Research and Development resources.

Our R&D team and laboratory are both based at LION's corporate headquarters in Dayton, Ohio. In 2010, LION upgraded its R&D facilities to support the company's growing need and ongoing commitment to innovation.



The laboratory itself features more than 650 square feet of dedicated testing space in a climate-controlled and secure environment with limited access to LION employees and approved guests. A full-time laboratory technician conducts research and development testing on a daily basis.

Equipment and testing capabilities in the LION lab include:

- Vertical Flame
- NFPA Thermal Protective Performance (TPP)
- NFPA Radiant Protective Performance (RPP)
- NFPA Conductive Compressive Heat Resistance (CCHR)
- NFPA Total Heat Loss (THL)



- Convective Oven
- Instron® Tensile, Tear and Seam Testing
- Water Absorption and Resistance
- NFPA Liquid Penetration

In addition to our work with end users and supply chain partners, there are multiple other research partners utilized to conduct studies or testing either on behalf of or in conjunction with LION. Those partners include:

- University of Kentucky, including funding a research grant
- Kansas State University
- North Carolina State University
- Louisiana State University Fire Training Academy
- US Navy Natick Research Facility
- Nelson Laboratories
- ICS Laboratories
- Q-labs Weathering Research Services
- Underwriter's Laboratories
- SEI (Safety Equipment Institute)
- Intertek

### OUR MISSION & CORE BELIEFS

LION's Mission: Each and every day, we fulfill the personal safety, readiness and identity needs of our customers worldwide.

LION's Core Beliefs include:



#### Doing What We Promise

We seek to do business with stakeholders who share our commitment to honesty, transparency, candor, and fun, as well as to action consistent with our core values — like us, they strive to win with integrity.

#### Learning From Everything and Everyone

We value curiosity and strong personal initiative in the pursuit of understanding our customers' needs and exceeding them.



### **Respecting All People**

We harness diverse points of view and even conflict as useful sources of learning, innovation, and continuous improvement.

### **Collaborating To Deliver Solutions**

We use teamwork and a commitment to do whatever it takes to deliver solutions. This is what fuels our operational excellence. Lasting internal and external partnerships based on trust, mutual respect, and collaboration are at the heart of Lion's success.

### **Expecting Nothing Short of Excellence**

We understand that exceeding our customers' expectations demands leadership, diligent planning, skillful organizing, rapid decision making, training, and having the right tools — this is how we consistently and reliably achieve flawless execution.

### **Being Good Corporate Citizens**

We extend our sense of leadership to the global communities in which we live and work — we are privileged to give back to those that give so much to us.

## **YOUR LION TEAM**

### **DAVE MCCLASKEY – Regional Sales Manager**

Dave is responsible for sales and account management for his region, which includes the states of Kentucky, Tennessee, West Virginia, Virginia, North Carolina, and Washington D.C. He has taken on many roles during his time with LION, including LION Helmet Molding Plant Manager, and Fire PPE Product Manager. Dave's prior roles give him a unique understanding of product from both a manufacturing, and end user perspective. Prior to joining LION, Dave was Government Account Representative for the Direct Sales Team with Comp USA. He joined LION in 2002 and is based out of his home office in Middletown, Ohio.

### **HAYLEY FUDGE – Vice President of National Accounts**

Hayley works collaboratively with LION's regional sales managers, distribution network, industry partners and end users on efforts to support the Top 500 fire departments in the United States. She is focused on bringing voice-of-the-customer feedback back to the LION innovation team to assist R&D efforts that will improve firefighter safety. Hayley serves on the NFPA 1500 technical committee. She joined LION in 2007 and is based at LION's corporate headquarters in Dayton, Ohio.

### **KAREN LEHTONEN – Vice President of Innovation & Product Development**

Karen is responsible for product, fabric and material developments and also oversees the company's research and development efforts, certification of all product lines and the operation of the LION testing laboratory. Karen serves on multiple NFPA technical committees (listed below), as well as the ASTM F23 protective clothing committee and the ASTM E54 homeland security committee:

- NFPA Structural and Proximity Fire Fighting Protective Clothing and Equipment
- NFPA Special Operations Protective Clothing and Equipment
- NFPA Emergency Medical Services Protective Clothing and Equipment
- NFPA Hazardous Materials Protective Clothing and Equipment
- NFPA Technical Correlating Committee on Fire and Emergency Services Protective Clothing and Equipment

Karen has been with LION since November 2000 and is based at its corporate headquarters in Dayton, Ohio.

### **MARK SMITH – Senior Vice President, LION Safety Resources Group**

Mark is responsible for the sales, customer service/support and marketing functions at LION and works very closely with the operations team on innovation product management, R&D and manufacturing. Mark has a long history as a sales leader in the public safety industry, working for companies such as E.D. Bullard Company, Galls and Point Blank Enterprises. He has experience managing the manufacturing process, customer relations and distributor partnerships in the industries which we serve. Mark joined LION in June 2014 and is also based at LION's corporate headquarters in Dayton, Ohio.

## **BLUEGRASS FIRE EQUIPMENT CO., INC.**

Address 780 Enterprise Dr.  
Lexington KY 40510

Bluegrass Fire Equipment Co. has been in business for over 40 years, we have been providing Lexington Fire Dept with Lion/Janesville turnout gear for many of those years. We have provided excellent local service to your fire department and would love to continue to do that for as long as you will allow us to.

April Hyams is our sales agent that has taken care of Lexington Fire Department's turnout gear needs for over 20 years. She has worked closely with LFD personnel through the years and knows what you expect and need when it comes to turnout gear. Her record, expertise and dedication to your department are second to none.

Services we provide:

**Gear Measuring-** we have always made ourselves available to custom measure your fire personnel when you request a sizing. Because we are here in Lexington, we are able to provide measuring for 1 or 100 firefighters. There have been many times in the life of our contract with LFD that we have measured individuals not as a part of a large sizing, due to vacations, illnesses, insurance claims, etc. Other dealers NOT located in Lexington would have a much harder time just coming to measure one or two individuals.

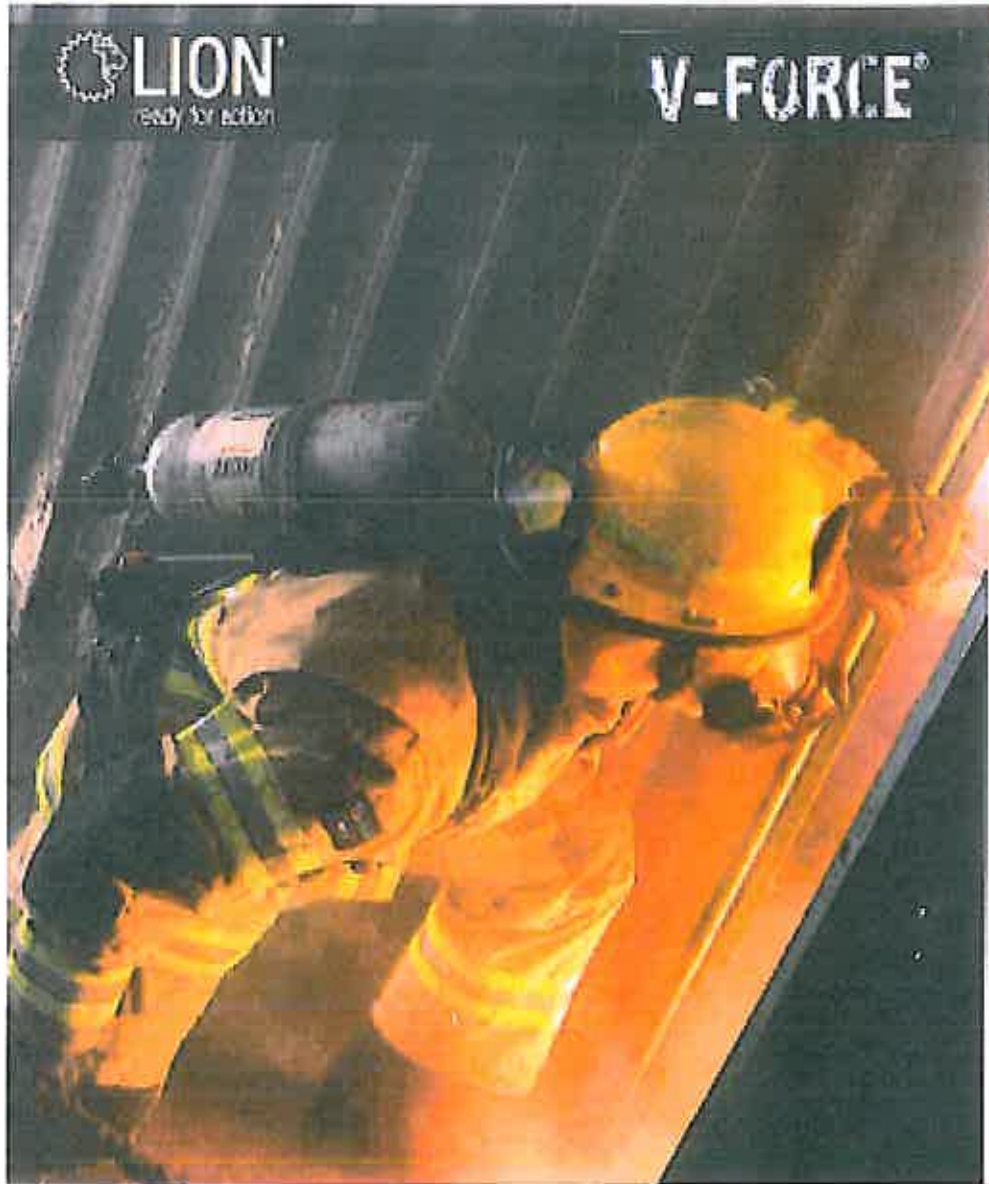
Also because we use a tape measuring system plus the use of a sizing set when we measure gear- our track record on the fit of the gear is outstanding! We have had very few fit problems with the Lexington Fire Dept.

**Personal Availability-** Because we are an actual established business with regular office hours, we are available to address any concerns you may regarding gear fit, options, warranty issues or repair issues. We can ship any garments that you need sent back to Lion for repairs, alterations or warranty issues.

**Liaison between your department and Lion Apparel-** We have a great working relationship with Lion Apparel, with their plants being in KENTUCKY and being so close to Lexington we can easily coordinate plant visits or have people from Lion come to Lexington to address any needs you may have.

Choose to have local service and your gear made in Kentucky!!





## Every Move You Make

Game-changing safety and comfort

Comfort isn't subjective. Much of it is science and quantifiable. Garment design, working weight and the ability to manage the moisture inside your protective envelope are all factors that contribute to the comfort of your turnout gear.

### Water Inside Your Protective Envelope Increases Risk

When water collects in your turnout clothing, it gets heavier and uncomfortable. This increases stress. Water also displaces the insulating air in your thermal barrier. Once in your system, water can expand at an explosive rate, making you vulnerable to steam burns and serious injury.

### Manage the Moisture in Your Turnout with Isodri® Technology

LION's exclusive Isodri® technology is an engineered system that manages moisture through a combination of materials that block outside sourced water, wick perspiration off the body and resist storing water inside the protective envelope. The insulating layer and outer shell of an Isodri® system are molecularly bonded with DuPont's Teflon® F to restrict the absorption of moisture and keep the protective layer of air intact. (Visit [www.fireprotecta.com](http://www.fireprotecta.com), watch the video and learn why every firefighter deserves dry gear.)

### No Compromises when it Comes to Safety

LION and cutting-edge safety are synonymous. For decades, LION has been the industry leader in the fight against firefighting stress by incorporating innovative design features and materials to deliver the most natural, least restrictive movement possible. We are the innovator of dozens of meaningful patents, including:

- Isodri® Protective Systems
- Flame-resistant, closed-cell cushioning and reinforcements
- Arc-Te® apertured thermal liners
- Integrated lumbar support
- Freedom® mobility system
- VFI™ Design
- LION Ventilated Liner™



## V-Force® Coats

Just as NASA technology advancements were transitioned into ground breaking protective clothing improvements in the 1970s, LION Jansville's V-Force® turnout gear has embraced innovations from today's military and sports clothing. The result is an intricate set of turnout gear that is designed to flex and bond like the human body.

### Maximum Comfort — the Difference is in the Details

The V-Force® Coat is more comfortable than common firefighting coats because it's cut much different. The seams aren't at the shoulders and sides, but at the back. This significantly reduces hem rise when you're extending your arms. It also prevents SCBA straps from pushing seams into your body and causing discomfort. Fitted side panels provide a more tailored fit and better mobility.

### Natural Arm Movement

The contoured nylon sleeves have a natural shaping. This combined with the V-Flit™ Elbow to promote free and easy movement. The elbow is made up of cutouts, shaped pieces and darts. This reduces bunching and the overall working weight of the coat.

The elbow reinforcements are notched to give you superior thermal and moisture protection without impeding movement. The coat's cuffs extend over the back of your hand for additional thermal protection when reaching or pulling.

### Reduced Working Weight

No detail has been overlooked. The streamlined storm flap reduces thermal buildup and working weight.

The new Comfort Collar and optional throat lift are ergonomically shaped to improve comfort, interface better with other PPE elements and deliver continuous thermal and moisture protection.

It features a smooth one piece transition at the shell/liner. There are no bulky seams or hook and loop to rub at the back of your neck. The liner attachment is at the top of the collar to allow for a natural break to use the collar effectively in the up or down position.



#### A. Standard V-Force® Coat

- Supports and delivers superior comfort and mobility
- Fitted side panels for tailored fit and fit
- Contoured nylon sleeve shaped for the human arm and hands so you won't reduce pulling and bracing
- V-Notch™ elbow reinforcements keep heat and moisture out. Won't bunch.
- Contoured collar and optional shaped throat lift comfortably interface with SCBA mask
- LION Ventilated Trim™ provides a conduit for the release of vapor and guards against the potential hazards of trapped moisture.

#### B. V-Force® Bi-Swing Coat

- The swing back has vented flaps to both the collar/shirt and liner system. It expands as your arms move forward. No lagging or bunching at the shoulder. When your arms return to a natural position, the flap sits against so there's no bunching of material.
- All the great comfort and mobility features of the standard V-Force® coat
- LION Ventilated Trim™ provides a conduit for the release of vapor and guards against the potential hazards of trapped moisture.

### V-Force® Standart Features\*



**Streamlined Storm Flap**

- A. **Streamlined storm flap** — Reduces thermal buildup, bulk and working weight.
- B. **Viz-a-V™ trim pattern** — Made with 3M™ Scotchlite® Reflective Material or Helleclair® Reflective Material for high visibility.
- C. **Extended cuff** — Extra length over back of hand for additional thermal protection when extending your arms.
- D. **Wrist Shield System™** — Wrist Shield System™ securely seals the wristlet of your turnout coat to your wrist. When you reach, the wristlet and moisture barrier travels with your wrist to minimize exposure to water, steam and flame. Sempar Dri™ material is employed in the waterwells of the coat sleeves.



**Viz-a-V™ Trim Pattern**

- E. **Isodri® Protective Systems** — An engineered system that manages moisture by a combination of materials that block outside sourced water, wick perspiration off the body and resist existing water inside the thermal barrier. Keeps working weight low and helps guard against steam-related injuries.
- F. **Extra thermal protection at yoke** — Yoke of coat employs Sempar Dri™ System to reduce water absorption and enhance thermal protection.
- G. **Kneez** with water-resistant FR Lite-N-Dri™ closed-cell cushioning in liner — Provides additional thermal protection in a high compression area.



**Extended Cuff**

- H. **Sempar Dri™ System** — Reduces water absorption in pants, legs, coat cuffs and yoke to keep your working weight lighter.
- I. **Reinforcements** — Protects high abrasion areas using coil fabric or polymer coated aramid reinforcements on cuffs, elbows, knees and kick shields.
- J. **Linear Inspection System** — Opening allows you to easily examine firm side of moisture barrier and inside of thermal liner. Makes Complete Liner Inspections easier and faster.
- K. **LION Ventilated Trim™** — Provides a conduit for the release of vapor and guards against the potential hazards of trapped moisture.

### V-Force® Pocket Options\*



**Pleated Semi-Bellows Pocket**

- A. **Pleated semi-bellows pockets** — Angled flaps and pull tabs make it easy to open and access tools.



**Semi-Bellows Pocket**

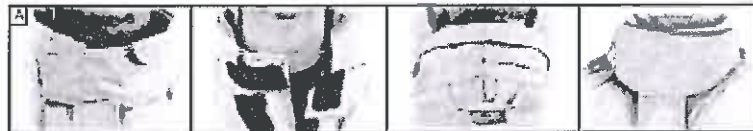
- B. **Combination semi-bellows and handwarmer pockets** — Angled flaps and pull tabs make it easy to open. Handwarmer opening for convenience and comfort.

\* Other options available

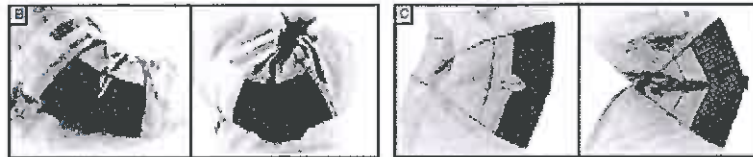


**V-Force® Advanced Features\***

- A. New Comfort Collar and optional throat tab —** Ergonomically shaped to improve comfort, interface better with other PPE elements and deliver continuous thermal and moisture protection.
- B. Elbows —** Elbows include cutouts, shaped pieces and darts to allow natural arm movement without restrictions or lagging.
- C. Legs and knees —** Contoured legs and knees employ cutouts, shaped pieces and darts to enable free and easy movement.
- D. Side panels —** Contoured shaping delivers better fit and mobility, while reducing hem rise. Side panels have a more tailored fit to move with your body during freighting activities.
- E. Raglan sleeves —** Shaped like your arm to promote free, unrestricted movement and reduce hem rise.
- F. Superior cut —** Superior cut evenly distributes weight of the garment. Seams are placed to reduce conflicts with SCBA straps that can cause irritation and discomfort.
- G. Radial Inseam —** The elimination of crotch seams reduces tension to give added comfort to your turnout gear. A banded insert runs continuously from the top of the knee of one leg, through the crotch and to the top of the opposite knee. This not only increases comfort, but extends the useful life of your turnout pants.

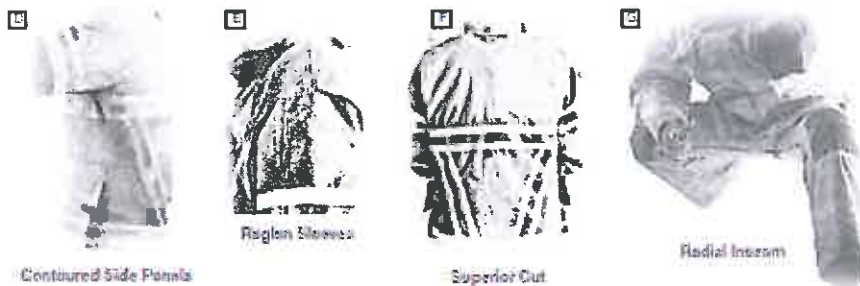


Contoured Collar and Shaped Throat Tab (optional)



V-Force® Elbows

V-Force® Legs and Knees



Contoured Side Panels

Raglan Sleeves

Superior Cut

Radial Inseam

\* Other options exist.

### Advanced Design Delivers Superior Comfort and Mobility

All V-Force® Pants share the superior V-Fit™ Design that reduces bunching of materials in the crotch and delivers the best overall fit of any turnout pants available.

The legs are contoured to match the body and also reduce working weight. The knees are an intricate design of cutouts, shaped pieces and darts to enable free and easy movement. You'll especially notice this when crawling and bending. Nine inches of Semper On™ (see page 36) thermal liner in the lower legs repels water to keep your pants dry and the working weight low.

The elimination of crotch seams reduces tension to give added comfort to your turnout gear. A banded insert runs continuously from the top of the knee of one leg, through the crotch and to the top of the opposite knee. In addition to extending the useful life of your pants, it also provides a more comfortable fit. Increased leg circumference increases mobility.

#### V-Force® Pants Styles

**V-Force® High-Back Pants** — Provide the ultimate in thermal protection. A five-inch back panel extends above the waist. A unique hook and loop support pad attaches LION's V-Back™ Suspenders to the pants. Snap tabs fasten the suspenders to the front (V-Back™ High-Back Suspenders are required).

**V-Force® Belted Pants** — Have a traditional waist with belt loops; a two-inch Kevlar® belt with thermoplastic, quick-release buckle and suspender buttons to give you the option of using the belt alone or adding suspenders.



V-Force® Belted Pants

# DURABILITY FEATURES

## STANDARD LION WARRANTY

LION warrants that all its firefighter and emergency responder products meet all applicable NFPA standards in the effect at the time of their manufacture and further warrants that such products are free from any defect in workmanship or any patent material defect.

Conditions of use are outside the control of LION. It is the responsibility of the user to inspect and maintain the product to assure it remains fit for its intended purpose. In order to maximize the useful life of these products and maintain the warranty, the products are to be used only by appropriately trained personnel following proper firefighting or emergency response techniques and in accordance with the products' warning, use, inspection, maintenance, care, storage and retirement instructions. Failure to do so will void the warranty

EXCEPT AS SET FORTH ABOVE, LION MAKES NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR USE. Under the above warranties, LION will repair or replace, at its option, any product which does not meet the above warranties. Such repair or replacement will be the purchaser's sole remedy and LION will not be responsible for any incidental, consequential or other damages based upon or arising in any way from breach of the warranties contained herein or the purchaser's use of such product.

These warranty obligations apply only to any product, part or component which is returned to LION or a LION Authorized Clean and Repair Center with prior authorization and proof of purchase, and which LION agrees to be defective as covered by this warranty.

The word "product" includes the product itself and any parts or labor furnished by LION with the sales, delivery or servicing of the product.

**DEFECTS IN WORKMANSHIP AND MATERIALS:** Defects in workmanship and materials means poorly manufactured seams, stitching or components (for example, loose or broken seams; zippers or snaps that fall off or do not function properly); and fabrics which have such flaws as holes, uneven spots, weak areas, pilling or other flaws caused by irregularities in their manufacture. See User Instruction, Safety and Training Guide for exceptions to warranty and information on Useful Life.

## STAYSAFE™ EXTENDED BUNKER GEAR WARRANTY PROGRAM

LION StaySafe is an extended warranty program that provides annual maintenance and a seven-year guarantee on new LION bunker gear. Additionally, it includes a cost-effective way to extend the gear's safe, useful life into years eight, nine and 10.

StaySafe provides you more coverage and benefits than traditional warranties. One of the most important features is a regular maintenance program that optimizes gear protective performance while in service, and sets it on a path to achieve 10 years of safe, useful life – the maximum allowed by NFPA 1851.



The useful life of bunker gear can be as little as three to five years with improper maintenance and/or storage. Safe, useful life can be as long as 7 to 10 years if bunker gear have been consistently maintained in a cleaning, inspection and repair program and stored properly.

LION StaySafe helps keep your firefighters safer, longer and helps control your PPE budget. It's simple math. Regular maintenance of bunker gear in a flat-rate plan is less costly than replacing it with new bunker gear. With LION StaySafe, you save money by extending the safe, useful life of your bunker gear which reduces your replacement rate. You will not need to replace your gear for seven years due to wear and tear.

It also minimizes the rate of replacement in years eight, nine and 10. LION StaySafe is less expensive than other second-party cleaning, inspection and repair plans where you pay an itemized invoice for all work performed. LION StaySafe is a flat-rate plan. That means for seven years, you will always know what your PPE maintenance costs will be. A lot of factors, such as composite selection, firefighting tactics and frequency of use, affect how much money your department will save. LION estimates that a 100-member department that spends \$1,650 per set can save more than \$40,000 over a 10-year period.

#### **MOISTURE BARRIER WARRANTY**

WL Gore and Stedfast manufacturers offer warranty for their barriers. Duration of warranty is dependent on barrier selection.

#### **SEAM TYPES**

LION uses both felled seams and safety stitch seams in the garment for optimal functionality. Both felled seams and safety stitch seams along with lock stitch are used due to the way Lion garments are built with curved pieces instead of straight lines for better mobility. The seam type is selected to provide the maximum performance dependent on the functionality. Outer Shell seam types used: Stitch Type 515 and Seam Type LSbm4; Stitch Type 401 and Seam Type LSc4; Stitch Type 301 and Seam Type SSae2. Thermal Lining seam types used: Stitch Type 515 and Seam Type LSbm4. Moisture Barrier seam types used: Stitch Type 504 and Seam Type SSa1.

#### **LION TOTALCARE**

Bunker gear and other PPE represent a major investment for your department. With dwindling budget dollars, you want maximum return out of your investment, while maintaining optimum levels of safety. LION TotalCare, the leader in PPE maintenance and repair, can help save you money and keep your gear safer, longer.



# UNIQUE KEY FEATURES

## LION ISODRI® MOISTURE MANAGEMENT SYSTEM

LION's patented IsoDri system provides superior moisture management in turnout gear. All layers of the IsoDri system work together to create a garment with unmatched performance capabilities.

- The face cloth wicks perspiration away from the body to keep the wearer comfortable.
- The thermal barrier is treated with DuPont Teflon to shed sweat generated by the body and maintain high thermal performance.
- Promotes higher air permeability.
- Reduces risk of scald burns.
- Dries more quickly.
- Reduces the working weight of the gear.

## LION VENTILATED TRIM™

Moisture can accumulate between turnout gear's outer shell and trim. When trim is compressed and heated, the trapped moisture can vaporize and transfer heat towards the body. LION Ventilated Trim is perforated to release the vapor and protect against the potential hazard of trapped moisture.

LION Ventilated trim is standard on all LION turnout coats and pants.



## LION LITE-N-DRI™

LION's Lite-N-Dri cushioning provides supplemental thermal insulation to turnout coats and pants in high-compression areas, such as the knees, shoulders, elbows and yoke. How it works:

- Millions of air pockets allow it to deflect and absorb energy.
- It's impermeable, so it will not absorb water.
- Cushioning helps guard against heat-related injuries in areas of high compression.
- Provides 150% more thermal protection than standard options.
- It's built into the knee of every liner and every shell of LION turnout gear.

## LION SEMPERDRI™

Thermal liners in pants have a tendency to absorb water at the bottom of the leg, making the garment heavier and contributing to physiological stress and possible burn injuries.

LION SemperDri uses nine inches of a special Teflon® F PPE-treated thermal lining material in the lower half of the legs and arms to reduce water absorption to keep the gear lighter and drier.

SemperDri is standard in the water wells of coat sleeves and in the shoulder/yoke area of coat liners.



# PPE ACCOUNTABILITY/TRACKING

## **FASET FIRE & SAFETY EQUIPMENT ASSET MANAGEMENT**

LION offers FASET (Fire and Safety Equipment Tracker) as the solution to your department's equipment-tracking needs. LION is fully committed to customizing our tracking solution to meet the requirements of the ISP designated to support the Dayton Fire Department.

With the web-based FASET program, you can create all record-keeping elements required for fire department compliance to NFPA 1851, Standard on Selection Care, and Maintenance of Structural Fire Fighting Protective Ensembles. Used properly, FASET will save time, reduce your workload and save your department money. FASET has easily learned full-screen interfaces for editing, modifying, adding, and deleting data in a consistent manner for all modules. FASET makes it easy for you to track all of your department's equipment, from helmets and bunker gear to ladders, SCBA's, hoses and rescue tools. FASET users can create records required for NFPA 1851 compliance. You can also schedule reports to print for gear in need of inspection.

### **How FASET Works**

FASET is a user-friendly tool, consisting of a relational database plus various utilities that make the control of fire hose, ladder, SCBA, PPE, apparatus and tool inventories easier and virtually error-free. PPE records to track who has been issued the gear, when it was last cleaned/inspected/repared, repair data and even retirement information can all be stored in FASET. Should your department have an unfortunate incident or injury, you will have quick access to the gear's history, such as issue date, records of the gear's maintenance and inspections. A manufacturer's serial number can be entered manually, or by scanning the serial number's one-dimensional bar code with a Symbol LS2208 scanner (available through LION).

### **FASET Set Up**

Software licenses are purchased from LION or through an authorized bunker gear distributor. Additional licenses are needed when users must have exclusive areas of responsibility, such as PPE vs. SCBA maintenance. There is an annual maintenance fee after the first year to continue access to the server and to cover regular software upgrades.

### **FASET Support**

LION Technical Services will offer support through a direct toll-free line (855.757.5466). LION's website will have a FAQ section on the FASET page. Also, there will be training webinars and an updated user guide whenever upgrades are made to the software. A user forum will be created on the LION website that allows a user to ask questions about the software or to make suggestions for improvements for future editions. You can also receive in-person, on-site training for an additional fee.

To find out more about how FASET works and can benefit your department, visit [www.lionprotects.com/faset](http://www.lionprotects.com/faset).

# Track all of your fire department's equipment with one easy system.



This program will track all record-keeping elements required for fire department compliance to NFPA 1851, Standard on Selection Care, and Maintenance of Structural Fire Fighting Protective Ensembles.

**FASET** is a web-based fire and safety equipment asset management program. With it you can create all record-keeping elements required for fire department compliance to NFPA 1851, Standard on Selection Care, and Maintenance of Structural Fire Fighting Protective Ensembles.

Used properly, **FASET** will save time, reduce your workload and save your department money.

**FASET** has easily learned full-screen interfaces for editing, modifying, adding, and deleting data in a consistent manner for all modules.

**FASET** makes it easy for you to track all of your department's equipment, from helmets and turnout gear to ladders, SCBA's, hoses and rescue tools.

**FASET** users can create records required for NFPA 1851 compliance. You can also schedule reports to print for gear in need of inspection.

## How it all works

**FASET** is a user-friendly Fire and Safety Equipment Tracker tool, consisting of a relational database plus various utilities that make the control of fire hose, ladder, SCBA, PPE, apparatus and tool inventories easier and virtually error-free.

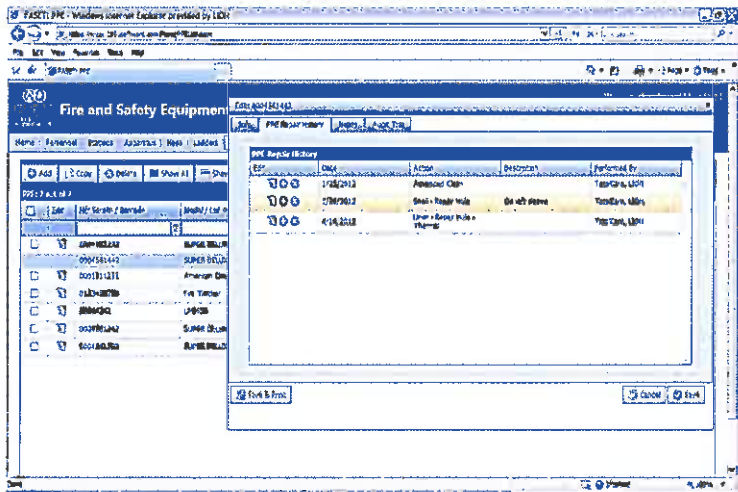
PPE records to track who has been issued the gear, when it was last cleaned/inspected/ repaired, repair data and even retirement information can all be stored in **FASET**.

Should your department have an unfortunate incident or injury, you will have quick access to the gear's history, such as issue date, records of the gear's maintenance and inspections.

A manufacturer's serial number can be entered manually, or by scanning the serial number's one-dimensional bar code with a Symbol LS2208 scanner (available through LION).







The FASET system gives fire departments real-time access to all equipment inventory and history.

#### How do I get it?

Software licenses are purchased from LION or through an authorized turnout gear distributor. Additional licenses are needed when users must have exclusive areas of responsibility, such as PPE vs. SCBA maintenance.

There is an annual maintenance fee after the first year to continue access to the server and to cover regular software upgrades.

#### What kind of support will I get?

LION Technical Services will offer support through a direct toll-free line (855.757.5466).

LION's website will have a FAQ section on the **FASET** page.

Also, there will be training webinars and an updated user guide whenever upgrades are made to the software.

A user forum will be created on the LION website that allows a user to ask questions about the software or to make suggestions for improvements for future editions.

You can also receive in-person, on-site training for an additional fee.

To find out more about how **FASET** works and can benefit your department, visit [www.lionprotects.com/faset](http://www.lionprotects.com/faset)

#### Getting started

Ready to get your **FASET** system in place? Contact your LION regional sales manager.

*"I rely on FASET to manage my department's PPE inventory, as well as fire equipment from purchase, distribution and repair.*

*FASET tracks my department's entire PPE inventory all in full compliance with NFPA 1851.*

*During these fiscally challenging times, FASET software has been an enormous help ensuring precious funds are properly allocated eliminating duplication and waste."*

**-Terry Powers, San Diego Fire-Rescue**



# QUALITY CONTROL PROGRAM

## LION CORPORATE QUALITY POLICY

We provide consistently excellent products and services that meet or exceed our customers' expectations. We accomplish these results by continuously improving all components of our business and monitoring our output with formal quality systems. We expand our individual skills and group processes to reach ever higher levels of performance and quality.



# MANUFACTURING LEAD TIMES

LION's production lead times are as follows:

**NORMAL CONDITIONS:** 45-60 days standard

(NOTE: All lead times subject to negotiation)

# MANUFACTURING & LABOR FORCE



## LION PPE FACILITIES

**Protective Gloves Plant:** Berlin, WI (15,000 sq. ft.)

**Gear Manufacturing Plant:** West Liberty, KY (56,000 sq. ft.)

**Helmet Molding Plant:** Dayton, OH (10,000 sq. ft.)

**Starfield Gear Manufacturing Plant:** Toronto, CN (26,000 sq. ft.)

**Distribution Center:** Hazel Green, KY (240,000 sq. ft.)

**TotalCare:** Boston, MA | Chicago, IL | Dallas, TX | Houston, TX | Kennett Square, PA - (Various facility sizes)

## NUMBER OF EMPLOYEES

As of November 1, 2014:

LION Fire PPE Employees – 318

LION Safety Resources Group (LSRG) – 519

LION Global – 1002

## MANUFACTURING FACILITY OPERATION HOURS:

Monday through Friday, 7:30 a.m. to 4:00 p.m. (Saturday, upon demand)

Seasonal Shutdowns:

- One week in July
- One week in December

# CUSTOMER LIST

LION provides personal protective equipment to thousands of fire departments, large and small, all throughout the United States and the world. We have provided a list of significant key metro turnout gear accounts for review and consideration. A more comprehensive customer list can be provided upon request, if necessary.

## LION U.S. METRO FIRE DEPARTMENT CUSTOMERS & TURNOUT GEAR COMPOSITES

### **Baltimore Fire Department**

Chief Virginia Eckard  
Ph: 410.396.3082  
Dept. Size: 1,500 FFs  
Outershell: Black PBI Max  
MB: 3-Layer CROSSTECH  
Thermal Liner: Glide Center Cut IsoDri

### **Baton Rouge Fire Department**

Chief Ed Smith  
Ph: 225.354.1400  
Email: esmith@br.gov  
Dept. Size: 560 FFs  
Outershell: Bronze Fusion  
MB: CROSSTECH Black  
Thermal Liner: Glide Exhale SRS IsoDri

### **Cal-Fire County of Riverside**

Capt. Lucas Spelman  
Ph: 951.486.2880  
Email: lucas.spelman@fire.ca.gov  
Dept. Size: 1,100 FFs  
Outershell: Natural PBI Gemini  
MB: CROSSTECH Black  
Thermal Liner: Quantum 3D

### **Chicago Fire Department**

Donald Hroma  
PH: 312.735.2367  
Email: Donald.hroma@cityofchicago.org  
Dept. Size: 5,100 FFs  
Outershell: Black Fusion  
MB: CROSSTECH Black  
Thermal Liner: Glide 2-Layer Araflo E89 IsoDri

### **Dekalb County Fire Rescue**

Capt. David Galbraith  
Ph: 404.557.8375  
Email: ddgalbra@dekalbcountyga.gov  
Dept. Size: 800 FFs  
Outershell: Natural PBI Max  
MB: CROSSTECH Black  
Thermal Liner: Glide 2-Layer Araflo E89 IsoDri

### **Detroit Fire Department**

Erik Carrington  
Ph: 313.962.7546  
Email: erikcarrington@yahoo.com  
Dept. Size: 1,250 FFs  
Outershell: Brass Fusion  
MB: CROSSTECH Black  
Thermal Liner: Glide Center Cut IsoDri

**Greensboro Fire Department**

Asst. Chief Mike Swails  
Ph: 336.412.5723  
Email: michael.swails@greensboro-nc.gov  
Dept. Size: 500 FFs  
Outershell: Natural PBI Matrix  
MB: 2 layer CROSSTECH  
Thermal Liner: Glide Center Cut IsoDri

**Honolulu Fire Department**

Battalion Chief Ryan Young  
Ph: 808.723.7120  
Email: ryoung2@honolulu.gov  
Dept. Size: 1,140 FFs  
Outershell: Natural PBI Max  
MB: CROSSTECH Black  
Thermal Liner: Glide Center Cut IsoDri

**Houston Fire Department**

PPE Chief Mark Donovan  
Ph: 832.394.6745  
Email: mark.donovan@houstontx.gov  
Dept. Size: 4,000 FFs  
Outershell: Natural PBI Max  
MB: CROSSTECH Black  
Thermal Liner: Glide 2-Layer Araflo E89  
IsoDri

**Jacksonville Fire & Rescue**

Capt. Bunky Ennis  
Ph: 904.759.8821  
Email: eennis@coj.net  
Dept. Size: 1,100 FFs  
Outershell: Natural PBI Matrix  
MB: CROSSTECH Black  
Thermal Liner: Glide Center Cut IsoDri

**Long Beach Fire Department**

Marvin Chang  
Ph: 562.570.1177  
Email: marvinlchang@gmail.com  
Dept. Size: 750 FFs  
Outershell: Natural PBI Max  
MB: CROSSTECH Black  
Thermal Liner: Glide 2-Layer Araflo E89  
IsoDri

**Mesa Fire Department**

Bridget Grimes  
Ph: 480.644.4992  
Email: bridget.grimes@mesaaz.gov  
Dept. Size: 650 FFs  
Outershell: Natural PBI Max  
MB: CROSSTECH Black  
Thermal Liner: Glide Center Cut IsoDri

**Miami-Dade Fire Rescue**

Javier Wallace  
Ph: 786.336.3174  
Email: jwallis@miamidade.gov  
Dept. Size: 2,000 FFs  
Outershell: Natural PBI Matrix  
MB: CROSSTECH Black  
Thermal Liner: Glide 2-Layer Araflo E89  
IsoDri



### **Nashville Fire Department**

Asst. Chief Bryan Jones  
Ph: 615.862.5480  
Email: bryan.jones@nashville.gov  
Dept. Size: 1,500 FFs  
Outershell: Black PBI Max  
MB: 3-layer CROSSTECH  
Thermal Liner: Glide 2-Layer Araflo E89  
IsoDri

### **New Orleans Fire Department**

Chief Steve Schmitt  
Ph: 504.658.4740  
Email: sschmitt@cityofno.com  
Dept. Size: 800 FFs  
Outershell: Natural PBI Max  
MB: CROSSTECH Black  
Thermal Liner: Glide Center Cut IsoDri

### **Oakland Fire Department**

Adrian Sheppard  
Ph: 510.755.5802  
Email: asheppard@oaklandnet.com  
Dept. Size: 500 FFs  
Outershell: Black Fusion  
MB: CROSSTECH Black  
Thermal Liner: Glide 2-Layer Araflo E89  
IsoDri

### **Omaha Fire Department**

Battalion Chief John Stolinski  
Ph: 402.444.5757  
Email: jstolinski@ci.omaha.ne.us  
Dept. Size: 650 FFs  
Outershell: Natural PBI Matrix  
MB: 2 layer CROSSTECH  
Thermal Liner: Chambray Pure Needle  
Punch

### **Orange County (CA) Fire Authority**

Russ Snider  
Ph: 714.251.0007  
Email: russsnider@ocfa.org  
Dept. Size: 1,100 FFs  
Outershell: Natural PBI Max  
MB: CROSSTECH Black  
Thermal Liner: Glide 2-Layer Araflo E89  
IsoDri

### **Palm Beach County Fire Rescue**

Chief Todd Blake  
Ph: 561.688.3830  
Email: TBlake@pbc.gov  
Dept. Size: 1,470 FFs  
Outershell: Natural PBI Max  
MB: CROSSTECH Black  
Thermal Liner: Glide 2-Layer Araflo E89  
IsoDri

### **Philadelphia Fire Department**

Deputy Chief Ted Mueller  
Ph: 215.685.8972  
Email: ted.mueller@phila.gov  
Dept. Size: 2,500 FFs  
Outershell: Black PBI Max  
MB: 3-layer CROSSTECH  
Thermal Liner: Glide Center Cut IsoDri

### **Phoenix Fire Department**

Capt. Aaron Ernsberger  
Ph: 602.501.9977  
Email: aaron.ernsberger@phoenix.gov  
Dept. Size: 1,500 FFs  
Outershell: Natural PBI Max  
MB: CROSSECH Black  
Thermal Liner: Glide Center Cut IsoDri

**Portland Fire & Rescue**

Lisa Williamson  
Ph: 503.823.4016  
Email: lisa.williamson@portlandoregon.gov  
Dept. Size: 900 FFs  
Outershell: Natural PBI Max  
MB: CROSSECH Black  
Thermal Liner: Glide Center Cut IsoDri

**San Bernardino County Fire Department**

David Thompson  
Ph: 909.387.5542  
Email: dthompson@sbcfire.org  
Dept. Size: 900 FFs  
Outershell: Natural Armor  
MB: CROSSTECH Black  
Thermal Liner: Glide Center Cut IsoDri

**San Diego Fire Rescue Department**

Mark Mastergeorge  
Ph: 619.347.9242  
Email: mastergeorge@sandiego.gov  
Dept. Size: 1,500 FFs  
Outershell: Natural PBI Max  
MB: CROSSTECH Black  
Thermal Liner: Glide 2-Layer Araflo E89  
IsoDri

**Seattle Fire Department**

Bob Kelly  
Ph: 206.386.1612  
Email: Bob.Kelly@Seattle.gov  
Dept. Size: 1,100 FFs  
Outershell: Black PBI Max  
MB: CROSSTECH Black  
Thermal Liner: Glide Center Cut IsoDri

**Tucson Fire Department**

Daniel Burke  
Ph: 520.235.1720  
Email: Daniel.Burke@tucsonaz.gov  
Dept. Size: 650 FFs  
Outershell: Natural PBI Max  
MB: CROSSTECH Black  
Thermal Liner: Glide Center Cut IsoDri

**Tulsa Fire Department**

Physical Resources Chief Mike Mallory  
Ph: 918.596.1250  
Email: mmallory@ci.tulsa.ok.us  
Dept. Size: 700 FFs  
Outershell: Natural PBI Max  
MB: CROSSTECH Black  
Thermal Liner: Glide Exhale SRS IsoDri